BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

In the Matter of:	)	
	)	
SIERRA CLUB, ENVIRONMENTAL LAW AND POLICY CENTER, PRAIRIE RIVERS NETWORK, and CITIZENS AGAINST RUINING THE ENVIRONMENT	)	
	)	PCB No-2013-015
Complainants,	)	(Enforcement – Water)
	)	
v.	)	
	)	
MIDWEST GENERATION, LLC,	)	
	)	
Respondents	)	

NOTICE OF FILING

PLEASE TAKE NOTICE that I have filed today with the Illinois Pollution Control Board the attached **COMPLAINANTS' RESPONSE TO MIDWEST GENERATION, LLC'S OBJECTION AND APPEAL FROM HEARING OFFICER'S RULING TO ADMIT COMPLAINANTS' EXHIBITS 204G-209G, 210H-215H, 222J-228J, 236L-241L, and 261**, copies of which are served on you along with this notice.

Respectfully submitted,

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(312) 795-3712

Dated: November 28, 2017

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

In the Matter of:	)	
	)	
SIERRA CLUB, ENVIRONMENTAL LAW AND POLICY CENTER, PRAIRIE RIVERS NETWORK, and CITIZENS AGAINST RUINING THE ENVIRONMENT	)	
	)	PCB No-2013-015
Complainants,	)	(Enforcement – Water)
	)	
v.	)	
	)	
MIDWEST GENERATION, LLC,	)	
	)	
Respondent	)	

COMPLAINANTS' RESPONSE TO MIDWEST GENERATION, LLC'S OBJECTION AND APPEAL FROM HEARING OFFICER'S RULING TO ADMIT COMPLAINANTS' EXHIBITS 204G-209G, 210H-215H, 222J-228J, 236L-241L, and 261

Complainants Sierra Club, Environmental Law and Policy Center, Prairie Rivers Network, and Citizens Against Ruining the Environment ("Complainants"), by their undersigned counsel, hereby submit this Response to Respondent Midwest Generation, LLC's ("Respondent") Objection and Appeal from Hearing Officer's Ruling to Admit Complainants' Exhibits 204G-209G, 210H-215H, 222J-228J, 236L-241L, and 261 (hereinafter cited as "*Appeal*").

Respondent's objection is misplaced and its appeal should be denied for several reasons. First, with one exception,[1] the exhibits are simply not duplicative or cumulative. Each of the above-listed exhibits contains information that cannot be found elsewhere in the record. Second,

[1] Complainants agree that the data in Exhibit 261 are duplicative of data that can be found elsewhere in the record. Within this response, references to the exhibits collectively refer to the exhibits other than Exhibit 261.

the information contained in these exhibits is plainly relevant and material. Finally, the information contained in the exhibits is in no way prejudicial to Respondent.

I. Legal Standard

The rules of Illinois Pollution Control Board ("Board") set out a simple standard for the admissibility of evidence: "The hearing officer may admit evidence that is material, relevant, and would be relied upon by prudent persons in the conduct of serious affairs, unless the evidence is privileged." 35 Ill. Adm. Code 101.626(a). In addition, "[w]hen the admissibility of evidence depends upon a good faith argument as to the interpretation of substantive law, the hearing officer will admit the evidence." 35 Ill. Adm. Code 101.626(b). As the Board has noted, this is a "relaxed" standard. *People of the State of Illinois v. Atkinson Landfill Co.*, PCB 13-28, Order of the Board at *9 (Jan. 9, 2014).

II. The Exhibits to Which Respondent Objects Are Not Duplicative or Cumulative

The exhibits are not duplicative because each exhibit contains monitoring data that cannot be found elsewhere in the record. Respondent conducts groundwater monitoring for two purposes that are relevant here – pursuant to Compliance Commitment Agreements (CCAs) with Illinois Environmental Protection Agency ("CCA Data") and pursuant to the Federal Coal Combustion Residual Rule, 40 CFR § 257 ("CCR Rule" and "CCR Data"). Respondent generally measures and reports CCA metals data as "dissolved," and measures and reports CCR metals data as "total recoverable."[2] Respondent monitors some wells for compliance with the CCAs, some for compliance with the CCR Rule, and some for both. *Appeal* at 1 – 3.

[2] Respondent's *Memorandum in Support of Midwest Generation, LLC's Objection and Appeal from Hearing Officer's Ruling to Admit Complainants' Exhibits 204G-209G, 210H-215H, 222J-228J, 236L-241L, and 261 as Evidence* (Nov. 14, 2017), hereinafter cited as "Appeal Memo.," at 3.

As Respondent acknowledges, there are several wells that are only being sampled pursuant to the CCR Rule. *Appeal Memo.* at 2 and 6 – 7. Specifically, there are three groundwater monitoring wells at Powerton (monitoring wells 17, 18 and 19), one[3] well at Waukegan (monitoring well 16), and two wells at Will County (monitoring wells 11 and 12) that are only sampled pursuant to the CCR Rule. Groundwater quality data for these wells can only be found in the exhibits that Respondent would like to exclude.

It is simply not the case that, as Respondent claims, "[t]he addition of the CCR Data adds nothing to what is already before the Board." *Id*. at 7. In fact, the CCR data adds a great deal of new and otherwise unavailable evidence. Complainants' Exhibit 411, attached hereto as *Attachment A*, which consists of demonstrative maps and charts used at the October hearing, shows that the wells that are only monitored pursuant to the CCR Rule provide unique information about the extent and severity of the contamination plume at each site.

As shown in the following table, all of these wells show concentrations of coal ash indicator pollutants boron and sulfate[4] that are greater than background concentrations and in some cases greater than Illinois Class I Groundwater Quality Standards:

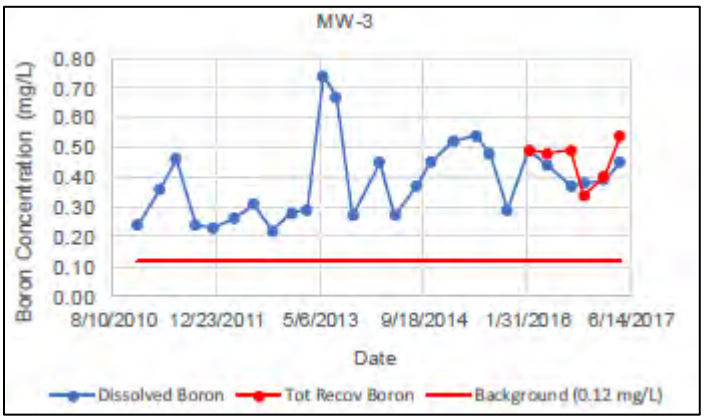
[3] Respondent states that "[m]onitoring wells 11, 14 and 16 at the Waukegan Station are only sampled pursuant to the CCR Rules." *Appeal Memo*. at 2, fn 6. This is not strictly true. Waukegan monitoring wells 11 and 14 are not sampled pursuant to the Waukegan CCA, but they are sampled pursuant to both the CCR Rule and a pre-existing Environmental Land Use Control (ELUC) at the site. ELUC data can be found in Exhibits 229K through 235.5K.
[4] *See, e.g.*, Complainants' Exhibit 9B, Letter from Susan M. Franzetti, Counsel for Midwest Generation, LLC, to Illinois EPA re: Violation Notice No. W-2012-00057 at the Powerton Generating Station, 389 (July 27, 2012), attached hereto as Attachment B ("Boron and sulfate are constituents known to be associated with coal ash.").

Site	Monitoring well	Median boron concentration (mg/L)	Median sulfate concentration (mg/L)
Powerton	MW-17	1.40*	720**
	MW-18	0.67*	330*
	MW-19	3.80**	160*
Waukegan	MW-16	3.70**	595**
Will County	MW-11	3.05**	160*
	MW-12	2.15**	235*
Data taken from Attachment A, pages 18, 42 and 59			
* *Greater than background* ** *Greater than both background and the Illinois Class I Groundwater Quality Standard, 35 Il. Admin. Code 620.410 (2 mg/L for boron and 400 mg/L for sulfate).*			

Again, this information can only be found in the documents that Respondent would like to exclude. These wells are not monitored for CCA purposes, and the groundwater quality data obtained from these wells are not in any way duplicative. Even if other data in the exhibits at issue were duplicative, the fact that the exhibits contain some plainly non-duplicative information suffices to justify their inclusion in the record. Without these exhibits, the above-listed monitoring wells would simply not be in the record at all, and the Board would be deprived of critical evidence showing the extent of contamination.

As to the wells for which there are simultaneous CCA and CCR data, again the data are not duplicative or cumulative. Complainants' expert noted that "dissolved" and "total recoverable" results for groundwater are "the same for all practical purposes," but also noted that "sometimes the total recoverable is less than the dissolved and sometimes it's the other way around." *Appeal Memo.* at 3 – 4. The data themselves show that dissolved and total recoverable results are similar, but not exactly the same. To take an arbitrary example, the first monitoring well in Attachment A with both CCA and CCR data is well MW-3 at Joliet 29. The boron data for this well are shown below. *See Attachment A* at 6. On February 10, 2016, the dissolved and

total recoverable boron concentrations were both 0.49 mg/L. *Attachment A* at 11. Six months later, on August 31, the dissolved boron concentration was 0.37 mg/L while the total recoverable boron concentration was 0.49 mg/L.



(Figure taken from Attachment A, page 6)

Clearly the dissolved and total recoverable results are not identical, even if they are roughly similar.

In addition, the difference between CCA and CCR sampling for sulfate is not the same as it is for boron. Respondent refers to the testimony of Mr. Richard Gnat and explains that "the method of analysis for the two sets of data is the exact same except for one step of the analysis procedure … the only difference is whether or not the person collecting the samples filters the groundwater when the groundwater is collected." *Appeal Memo.* at 3. This may be true for the sampling of metals, but it is not true for sulfate, which is not a metal, and is analyzed using different laboratory methods. For CCA purposes, sulfate is analyzed using method "9038," while for CCR purposes sulfate is analyzed using method "SM 4500 SO4 E." See, e.g., Complainants' Exhibit 246M, Bates page MWG13-15_62345 (CCA data for Joliet 29) and Complainants' Exhibit 209G, Bates page MWG13-15_61793 (CCR data for Joliet 29, May 11, 2017).[5]

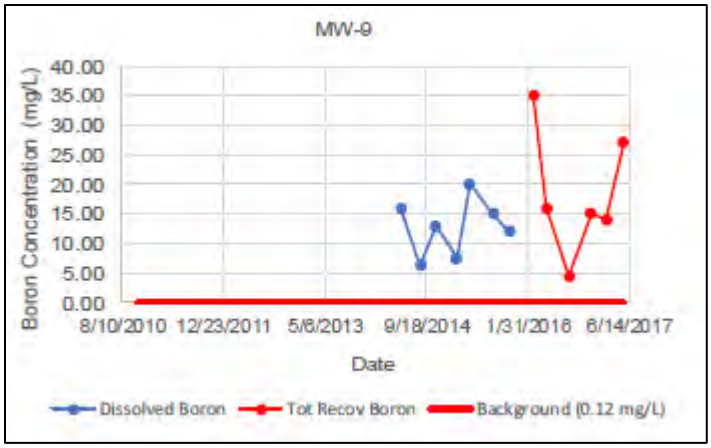
[5] Complainants have not attached these large exhibits here, but will submit the exhibits for the Board's review at the Board's request.

In short, the CCR data and the CCA data are simply not the same, even when they are based on groundwater samples taken from the same well on the same day.

III. The Information in the Exhibits to Which Respondent Objects Is Both Material and Relevant.

The monitoring data that Respondent would like to exclude is "material, relevant, and would be relied upon by prudent persons in the conduct of serious affairs." 36 Ill. Admin. Code 101.626. To begin with, it cannot be denied that each groundwater monitoring well contains material information about the condition of the groundwater being monitored by that well. For example, monitoring well MW-16 at Waukegan is the only well located directly south of the Waukegan coal ash ponds. *See Attachment A* at 36 – 38. The only way to evaluate the condition of the groundwater in that area is to look at data from well MW-16. If Respondent's appeal were successful, that information would no longer be in the record. There can be no question that the data from well MW-16 is material to the question of whether the groundwater contamination plume extends to the area south of the Waukegan ash ponds. This is equally true for all of the wells for which the only available information is in the exhibits that Respondent's would like to exclude.

The CCR data obtained from wells for which the record contains contemporaneous CCA data are also material and relevant, and could be relied upon for various purposes. For one, the CCR data can be used to confirm that the contemporaneous CCA data are accurate. Second, the fact that the CCR data and CCA data are similar is useful for justifying comparisons between discrete data time series that make use of different types of data. For example, metals data for wells MW-8 and MW-9 at Waukegan are only available in dissolved form for a one period of time, then only in "total recoverable" form for a later period of time:



(Figure taken from Attachment A, page 45)

One question at issue in this case is whether contamination has increased, decreased, or remained constant over time. To answer this question for well MW-9 at Waukegan, and more specifically to determine whether the concentrations of boron (or other pollutants) observed in 2014 and 2015 continue to the present day, or have increased or decreased, one must assume that the "total recoverable" results for more recent dates are comparable to the dissolved data for earlier dates. The contemporaneous dissolved and total recoverable data from other wells help to establish that they are, in fact, generally comparable, and therefore justify comparisons and analyses of trends that make use of both types of data, as they must for wells MW-9 and MW-8 at Waukegan.

Similarly, comparisons between wells with dissolved metals data and other wells with only "total recoverable" data are likely to be important in this case, because looking at the pollutant concentrations in two wells is one way of evaluating the source of contamination – if an upgradient well shows lower concentrations than a downgradient well, there is likely to be a source of contamination between the two wells. This kind of comparison requires an assumption that the two types of data are comparable. The contemporaneous data in the record help to support that assumption.

Since these exhibits contain data that are "material, relevant, and would be relied upon by prudent persons in the conduct of serious affairs," 36 Ill. Admin. Code 101.626, the Hearing Officer properly admitted these exhibits, and Respondent's objection and appeal should be denied.

IV. The Information in the Exhibits to Which Respondent Objects Is Not Unfairly Prejudicial

Respondent complains that the CCR data and the CCA data combine to form "double sets of data," which "leave the impression that there are an increased number of alleged violations of the Illinois groundwater standards, which is prejudicial to MWG." *Appeal Memo.* at 7. As a preliminary matter, this argument only applies to CCR data that have been collected with contemporaneous CCA data. Respondent has not alleged any unfair prejudice with respect to the wells for which there are only CCR data.

For wells with contemporaneous CCR and CCA data, there is no unfair prejudice for the simple reason that the CCR data tend to track the CCA data. The CCA data generally show elevated concentrations of coal ash indicators (virtually all wells show concentrations of boron and sulfate that exceed background, and many wells exceed Illinois groundwater quality standards), and the CCR data tend to confirm that pattern. Respondent is understandably unhappy with what the data show, but this does not amount to unfair prejudice. As Justice Sandra Day O'Connor noted in her *Old Chief* dissent, "Rule 403[6] does not permit the court to exclude [] evidence simply because it may hurt the defendant." *Old Chief v. United States*, 519 U.S. 172,

[6] The Federal and Illinois versions of Rule 403 are essentially identical. Federal Evidence Rule 403 states that "[t]he court may exclude relevant evidence if its probative value is substantially outweighed by a danger of one or more of the following: unfair prejudice, confusing the issues, misleading the jury, undue delay, wasting time, or needlessly presenting cumulative evidence." Fed. R. Evid. 403. Illinois Evidence Rule states that "[a]lthough relevant, evidence may be excluded if its probative value is substantially outweighed by the danger of unfair prejudice, confusion of the issues, or misleading the jury, or by considerations of undue delay, waste of time, or needless presentation of cumulative evidence." IL R EVID Rule 403.

193 (1997) (internal citations omitted). Justice O'Connor also cited *Dollar v. Long Mfg.* to observe that "[v]irtually all evidence is prejudicial or it isn't material. The prejudice must be 'unfair.'" *Id.*, citing *Dollar v. Long Mfg., N.C., Inc.*, 561 F.2d 613, 618 (C.A.5 1977, cert. denied). Here too, the CCR data are only prejudicial to the extent that the rest of the groundwater data in the case are prejudicial – and that is simply not "unfair" prejudice.

Moreover, Complainants have made every effort to avoid 'double-counting' the evidence of contamination. Exhibit 411 (*Attachment A*) includes "[g]roundwater monitoring results greater than Illinois Class I Groundwater Quality Standards" from 2010 – present. This is a long list, with hundreds of readings over the standards, including over 700 such readings since roughly 2014. But as noted at the bottom of the last two pages of Exhibit 411, this list only contains CCA (dissolved) data, because Complainants recognize that counting two samples from the same well on the same day in a tally of high pollutant concentrations would be misleading. In addition, the charts created by Dr. Kunkel clearly differentiate between dissolved and total recoverable results; the contemporaneous data sets in these charts do not, in Complainants' opinion, leave the impression that there is more contamination than suggested by the CCA data.

V. Conclusion

Complainants are not aware of, and Respondent does not cite, any Board decisions to exclude cumulative evidence. Respondent instead cites criminal law from outside of the Board's jurisdiction. As explained above, the exhibits to which Respondent objects would almost certainly be admissible under state and federal criminal law because they are not duplicative or unfairly prejudicial, and they are both material and relevant. They present even less of an admissibility issue under the Board's relaxed standard.

The record contains a large body of groundwater monitoring data that has been collected over several years for multiple purposes, using different contractors, and using different methods. Complainants attempted to introduce the data into the record using as few exhibits as possible, while also maintaining a set of data that is as complete as possible. With one exception, none of the exhibits to which Respondent objects are duplicative, none of them are unfairly prejudicial, and all of them are both material and relevant. The Hearing Officer's decision to admit these exhibits was reasonable and consistent with Illinois Pollution Control Board rules, and should be affirmed.

As to Complainants' Exhibit 261, which contains CCA data for three monitoring wells at Powerton, Complainants agree that the data in the exhibit are duplicative of data that can be found elsewhere in the record, and do not oppose Respondent's objection.

Respectfully submitted,

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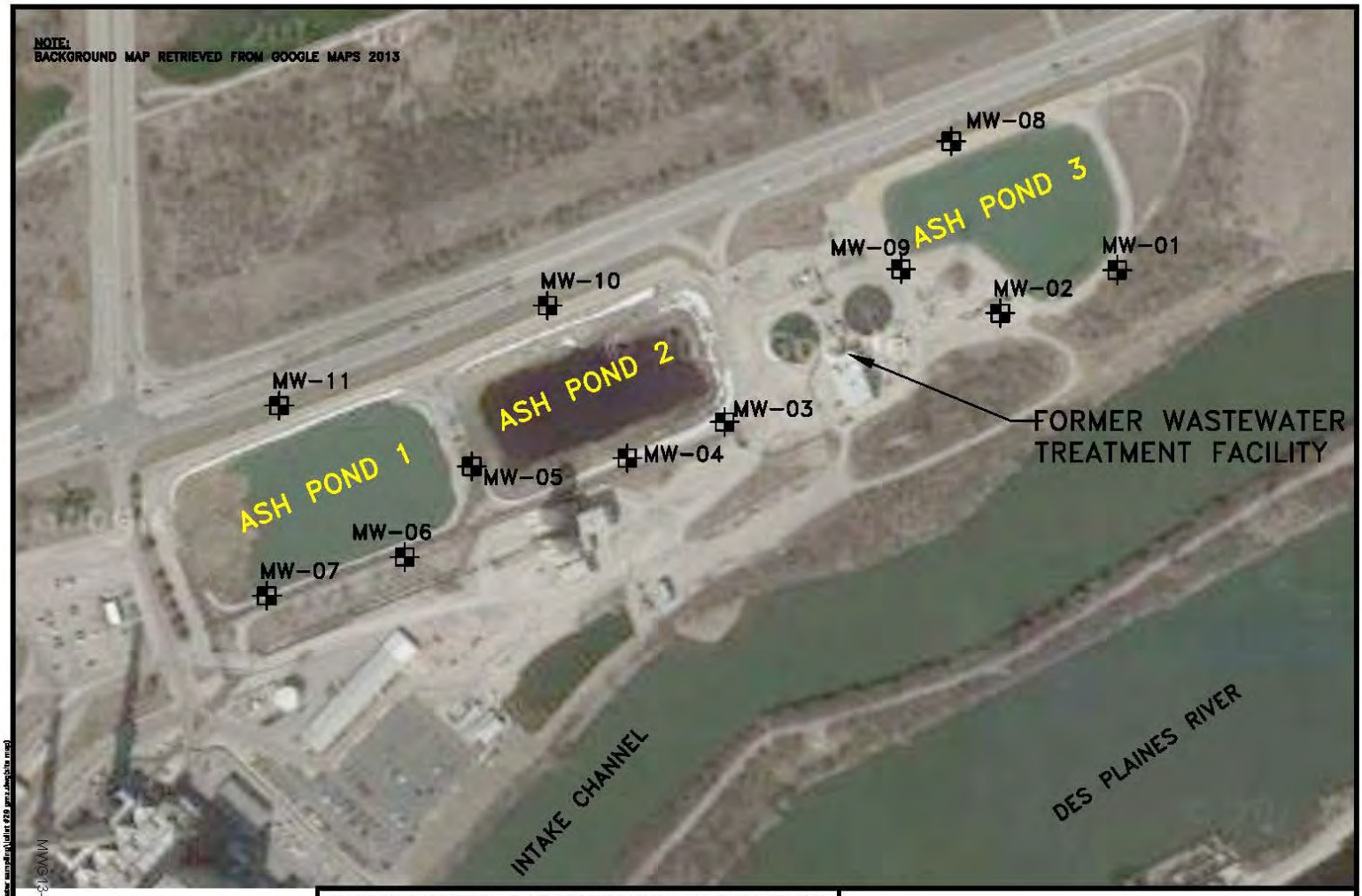
Attorney for CARE

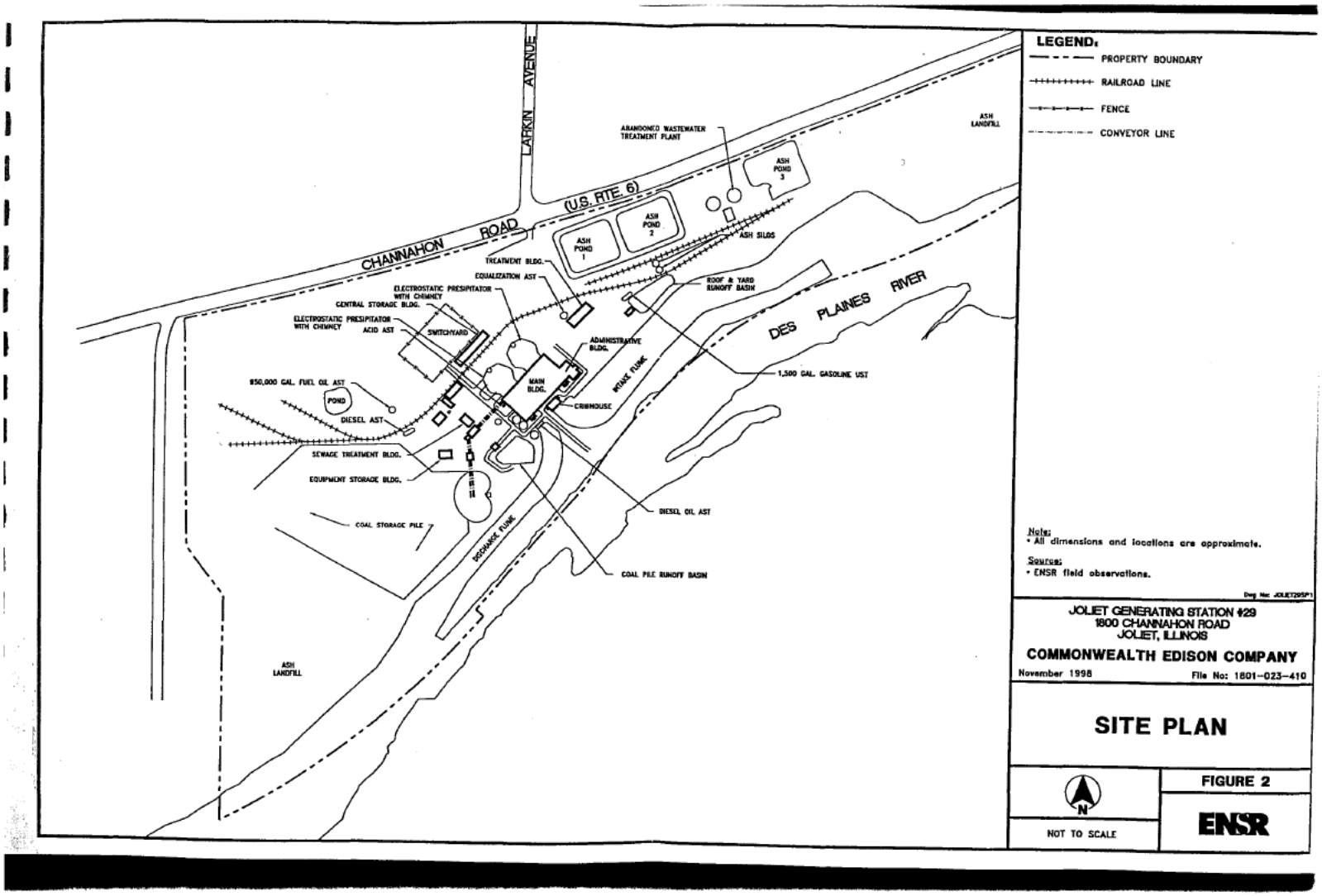
Dated: November 28, 2017

ATTACHMENT A:

COMPLAINANTS' EXHIBIT 411

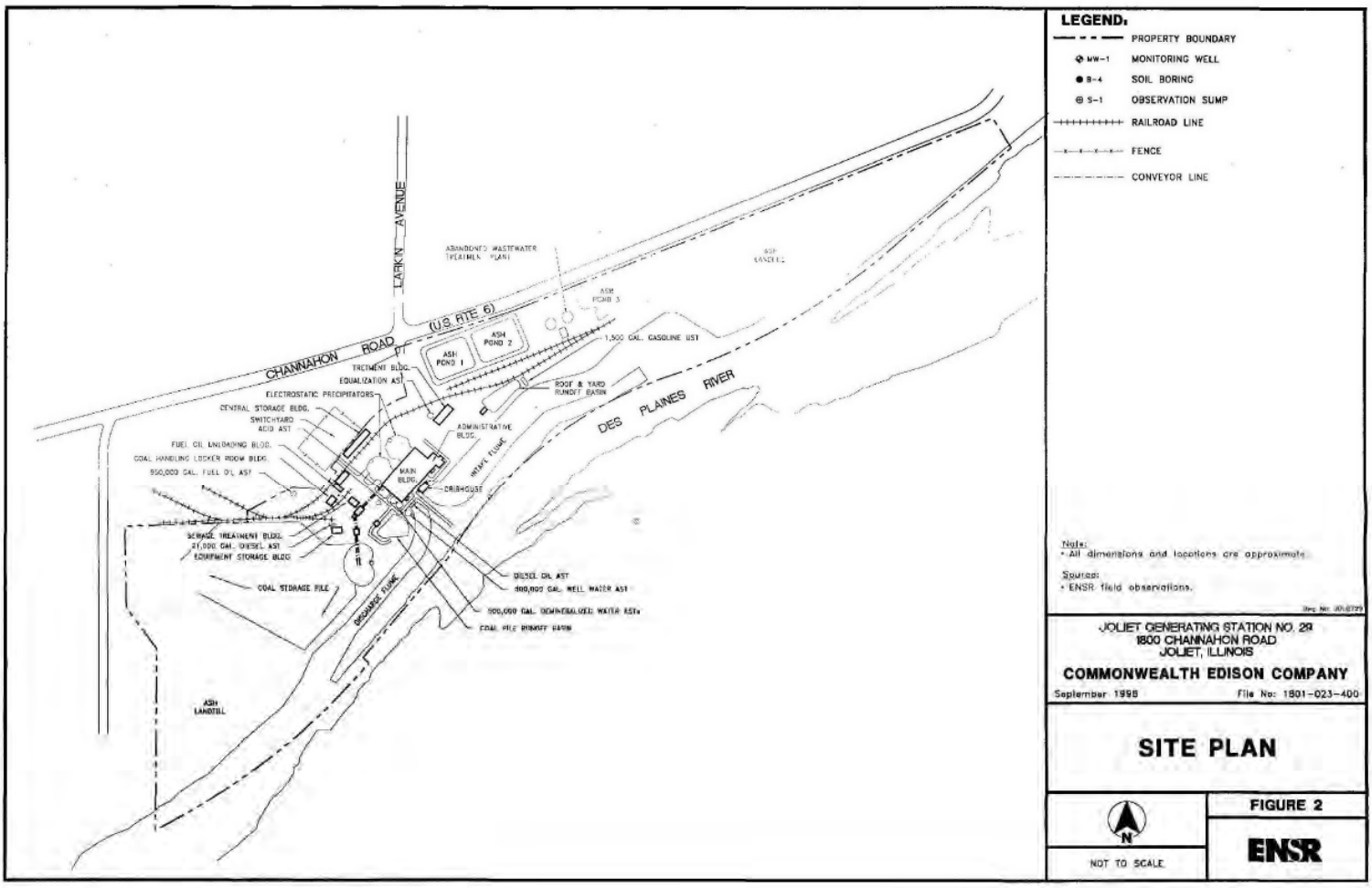

NOTE:
BACKGROUND MAP RETRIEVED FROM GOOGLE MAPS 2013
MW-08
ASH POND 3
MW-09
MW-01
MW-02
MW-10
ASH POND 2
MW-11
MW-03
MW-04
MW-05
ASH POND 1
MW-06
MW-07
FORMER WASTEWATER TREATMENT FACILITY
INTAKE CHANNEL
DES PLAINES RIVER
0
250'
APPROXIMATE SCALE
N
ENVIRONMENTAL CONSULTATION & REMEDIATION
K P R G
KPRG and Associates, Inc.
14665 West Lisbon Road, Suite 2B 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
JOLIET #29 GENERATING STATION
JOLIET, ILLINOIS
Scale: 1" = 250'
Date: January 23, 2015
KPRG Project No. 12313.0
FIGURE 1

Joliet #29



MWG13-15_23339

Joliet #29



MWG13-15_25149

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.31	180.00	12/6/2010	0.31	190.00
6/14/2011	0.29	81.00	6/14/2011	0.35	67.00
9/14/2011			9/14/2011	0.44	110.00
12/7/2011			12/7/2011	0.74	150.00
3/15/2012			3/15/2012	0.22	110.00
6/19/2012			6/19/2012		
9/19/2012	0.38	240.00	9/19/2012	0.35	190.00
12/20/2012			12/20/2012	0.42	140.00
3/5/2013			3/5/2013	0.41	130.00
5/23/2013	0.33	140.00	5/23/2013	0.35	150.00
7/22/2013			7/22/2013	0.29	140.00
10/15/2013			10/15/2013	0.41	130.00
2/21/2014			2/21/2014	0.34	61.00
5/1/2014			5/2/2014	0.25	68.00
8/18/2014	0.22	59.00	8/18/2014	0.22	85.00
10/23/2014	0.21	65.00	10/23/2014	0.22	92.00
2/10/2015			2/10/2015	0.23	67.00
5/27/2015			5/27/2015	0.35	100.00
8/4/2015			8/4/2015	0.25	85.00
10/28/2015			10/28/2015	0.21	60.00
2/9/2016			2/9/2016	0.20	88.00
5/11/2016	0.18	170.00	5/11/2016	0.18	100.00
8/30/2016	0.24	74.00	8/30/2016	0.18	62.00
11/3/2016	0.25	62.00	11/1/2016	0.18	41.00
2/6/2017			2/8/2017	0.17	50.00
4/25/2017			4/25/2017	0.15	140.00
Median	0.25	81.00		0.25	100.00
Mean	0.27	119.00		0.30	104.24
Std. Dev	0.06	65.80		0.13	41.81
Maximum	0.38	240.00		0.74	190.00
Minimum	0.18	59.00		0.15	41.00
N	9	9		25	25

NOTE: All concentrations are dissolved unless otherwise noted.

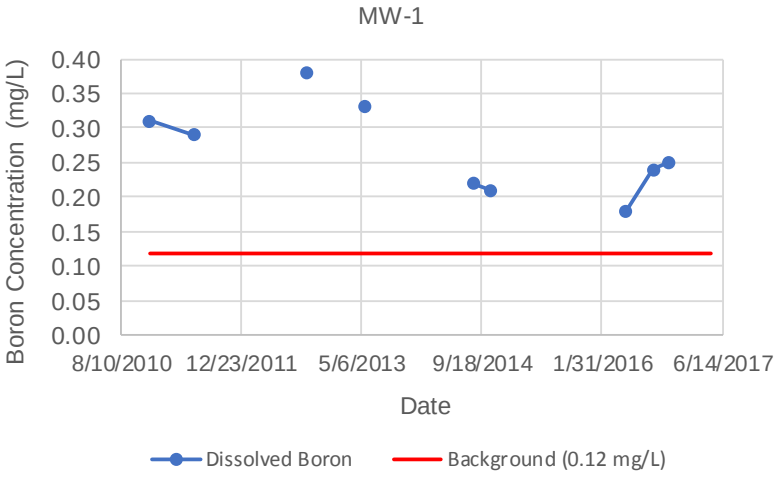
Means the concentration is total recoverable. NOT included in the Statistics or Table.

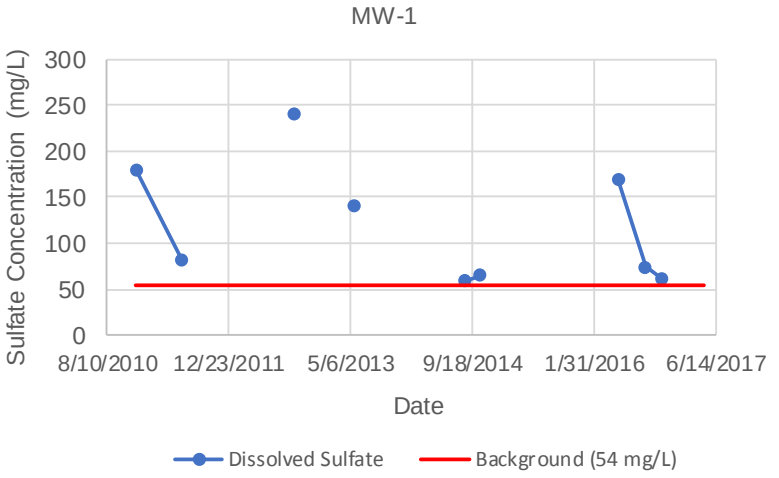
JOLIET #29 - MEDIAN BORON AND SULFATE CONCENTRATIONS COMPARED TO BACKGROUND

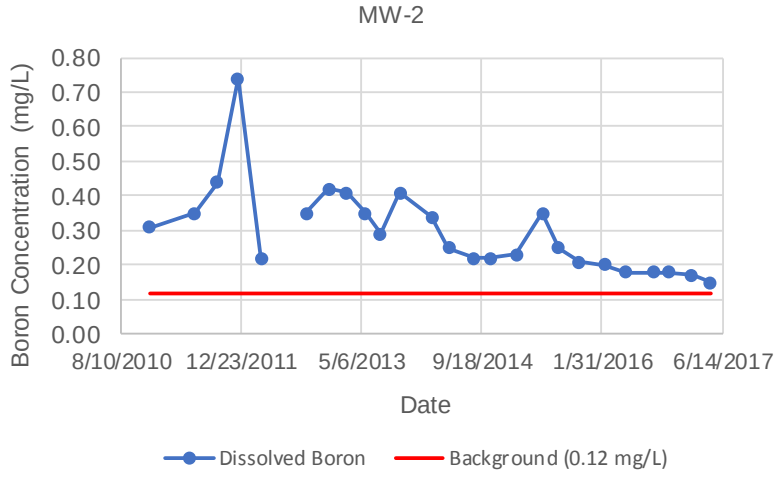
	Boron Concentration (mg/L)		Sulfate Concentration (mg/L)	
Well	Median	Background	Median	Background
MW-1	0.25	0.12	81	54
MW-2	0.25	0.12	100	54
MW-3	0.37	0.12	120	54
MW-4	0.37	0.12	110	54
MW-5	0.57	0.12	170	54
MW-6	0.25	0.12	110	54
MW-7	0.23	0.12	130	54
MW-8	0.16	0.12	73	54
MW-9	0.34	0.12	1100	54
MW-10	0.44	0.12	110	54
MW-11	1.2	0.12	120	54

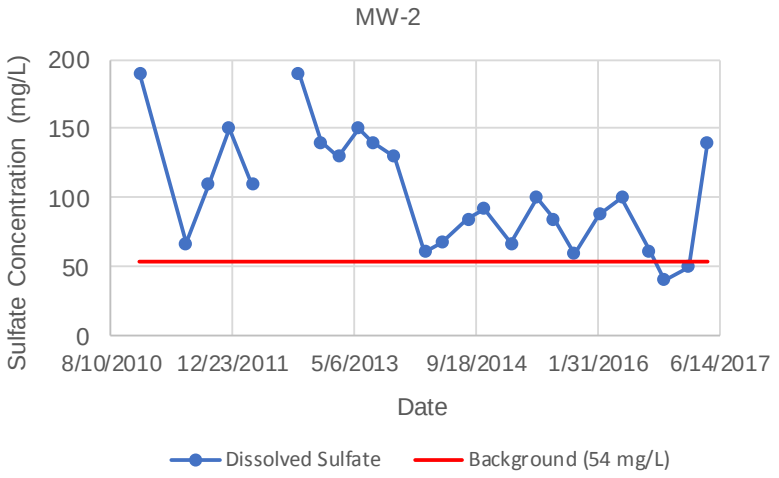
NOTE: All concentrations are dissolved unless otherwise noted.

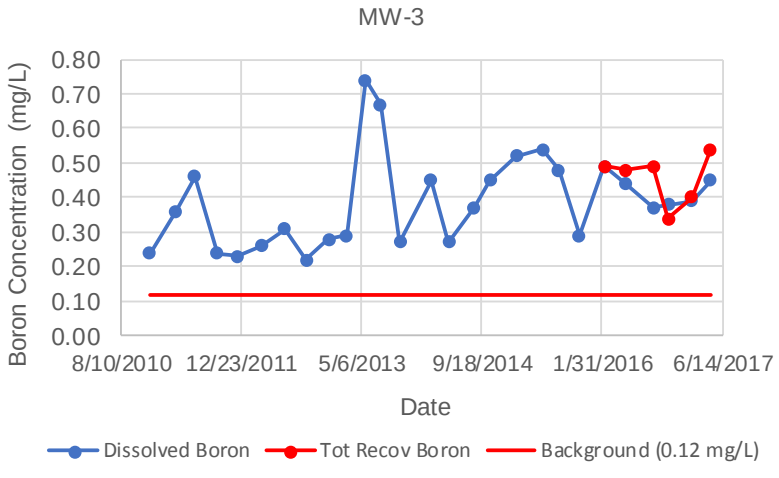
Joliet #29

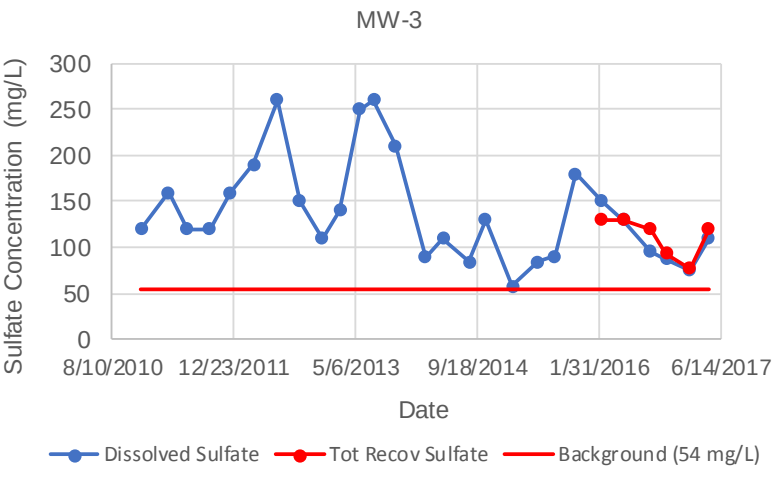

MW-1
Boron Concentration (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)


MW-1
Sulfate Concentration (mg/L)
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)


MW-2
Boron Concentration (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)

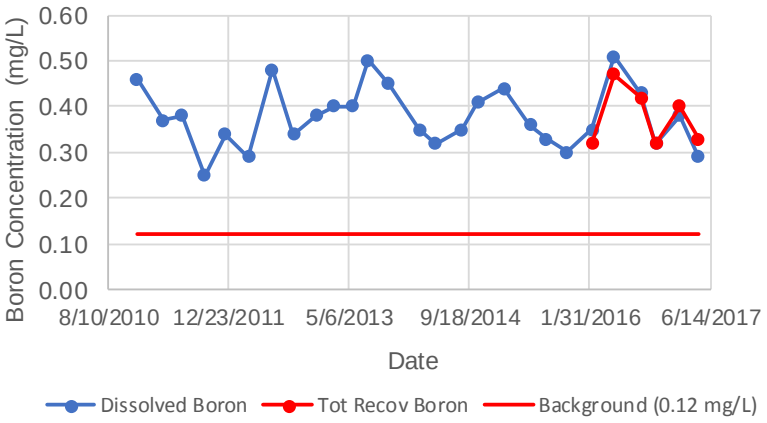

MW-2
Sulfate Concentration (mg/L)
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)


MW-3
Boron Concentration (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.12 mg/L)

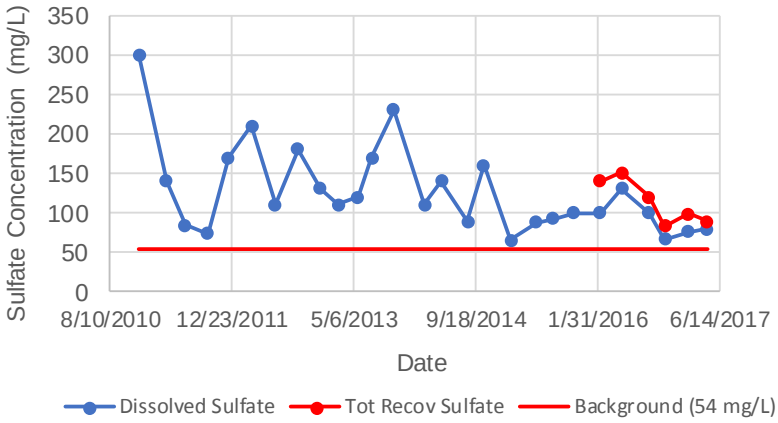

MW-3
Sulfate Concentration (mg/L)
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (54 mg/L)

Joliet #29

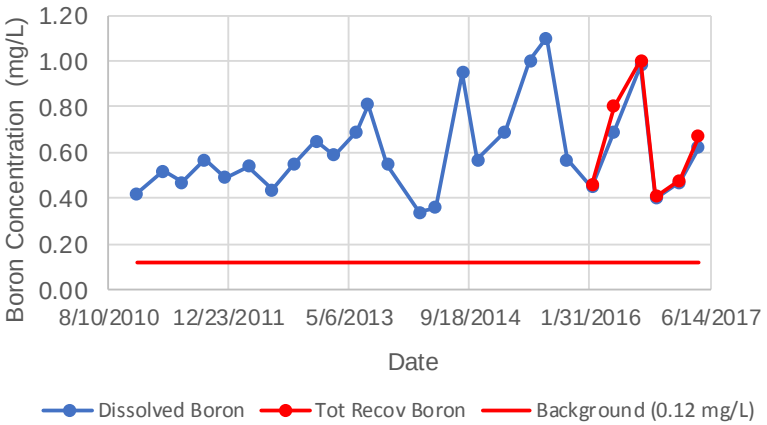
MW-4



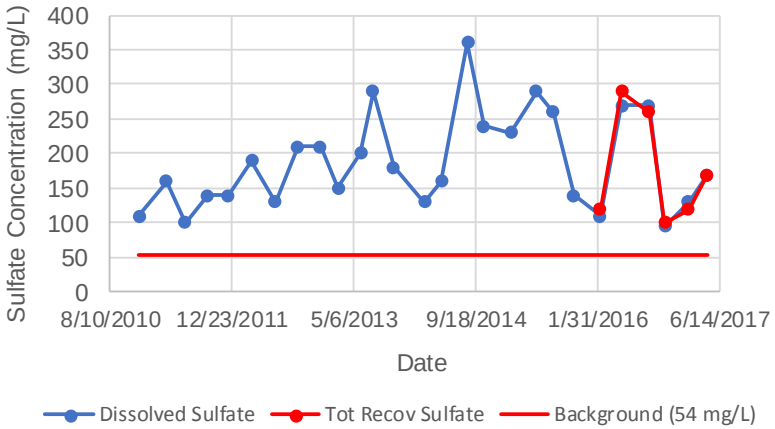
MW-4



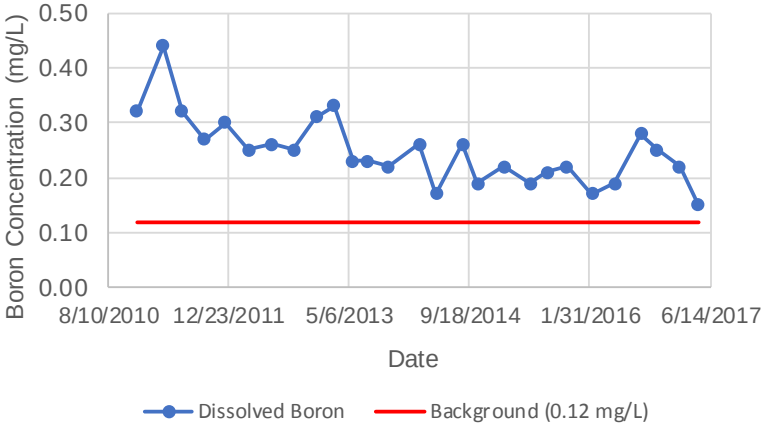
MW-5



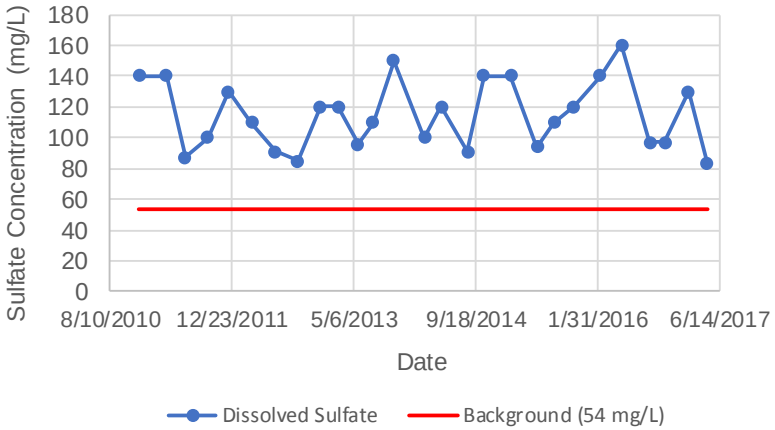
MW-5



MW-6

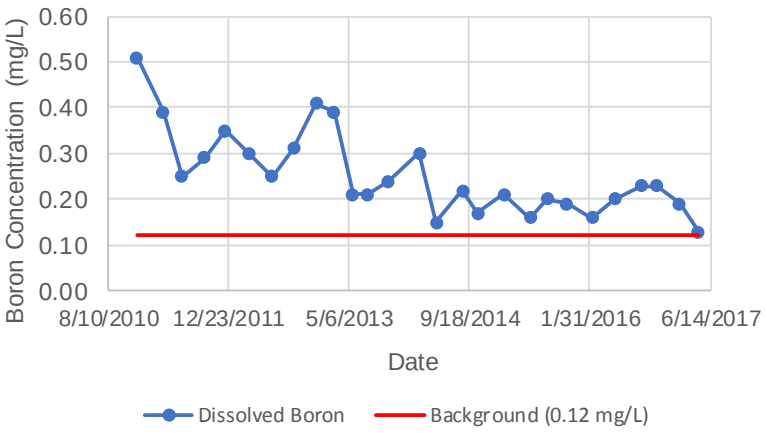


MW-6

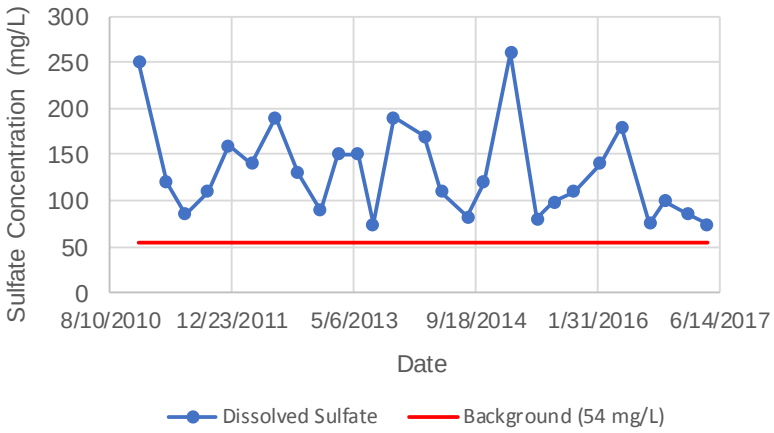


Joliet #29

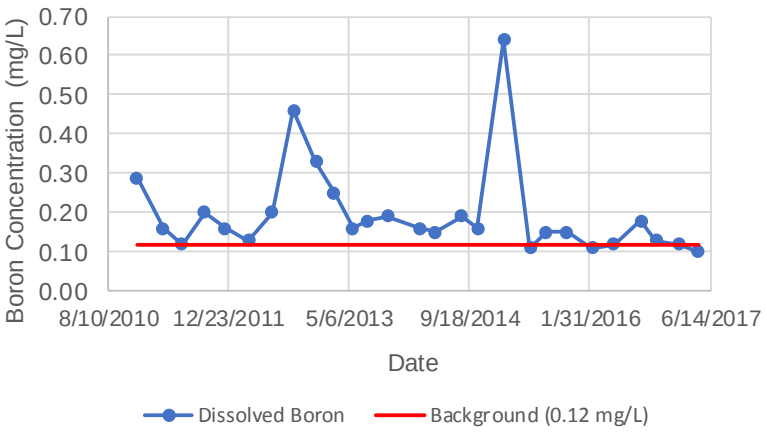
MW-7



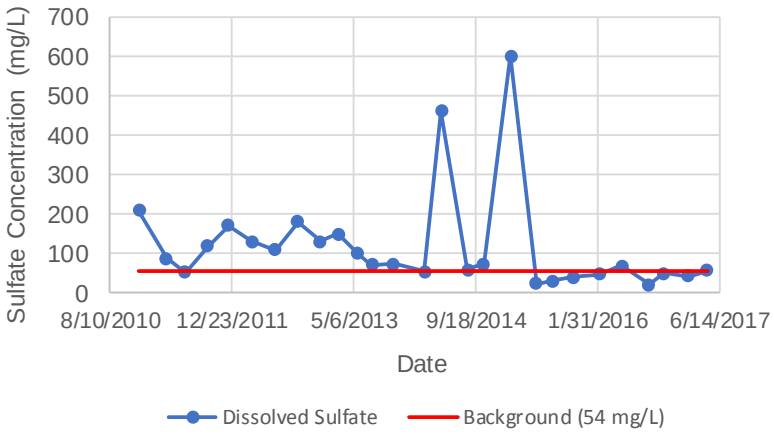
MW-7



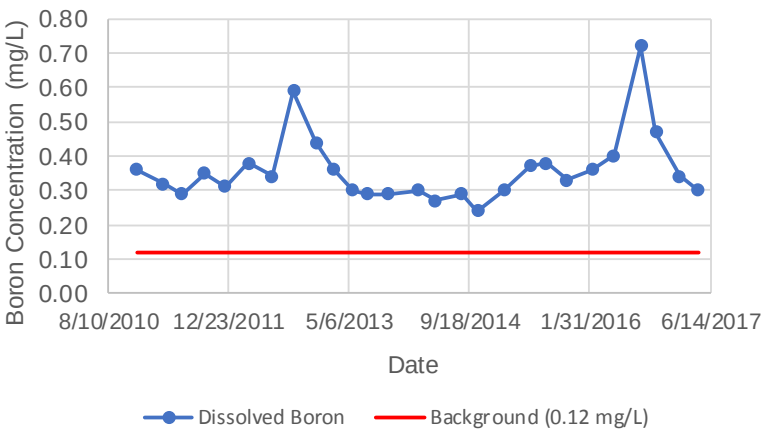
MW-8



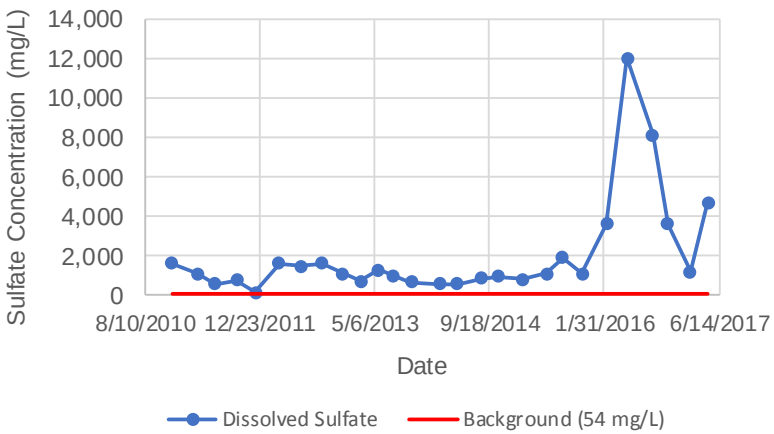
MW-8



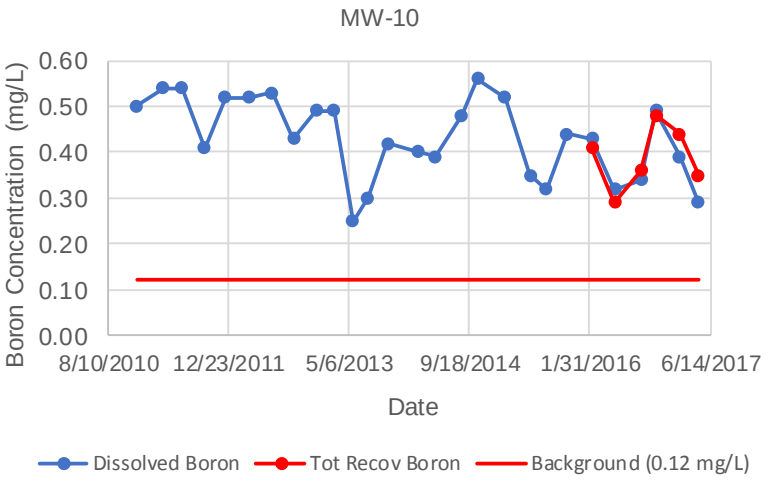
MW-9

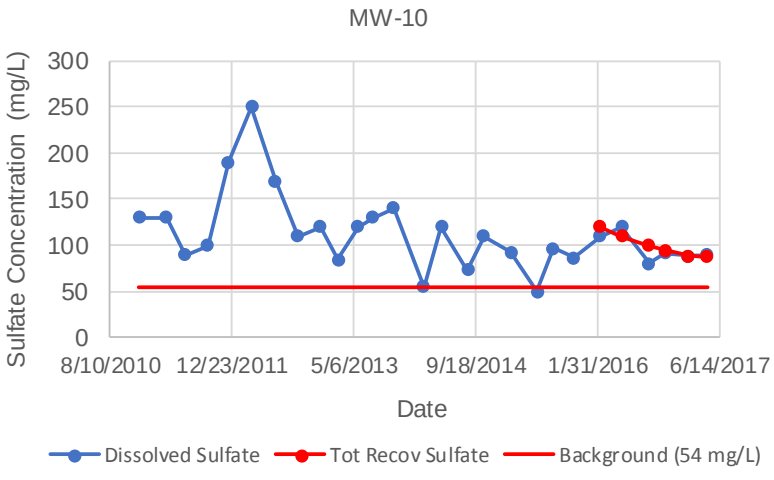


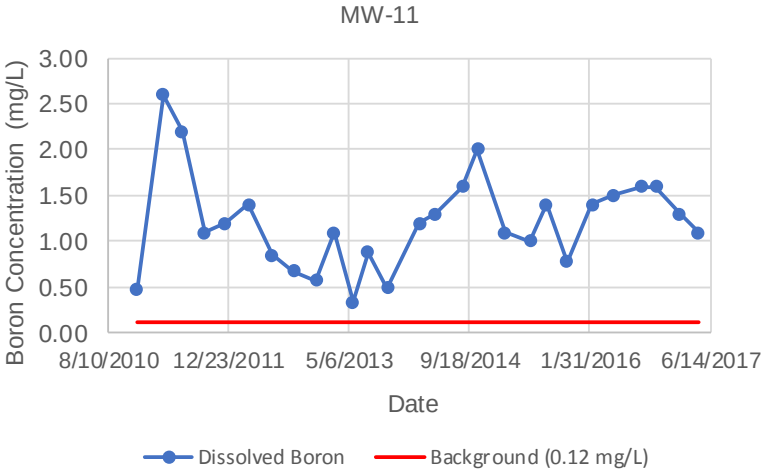
MW-9

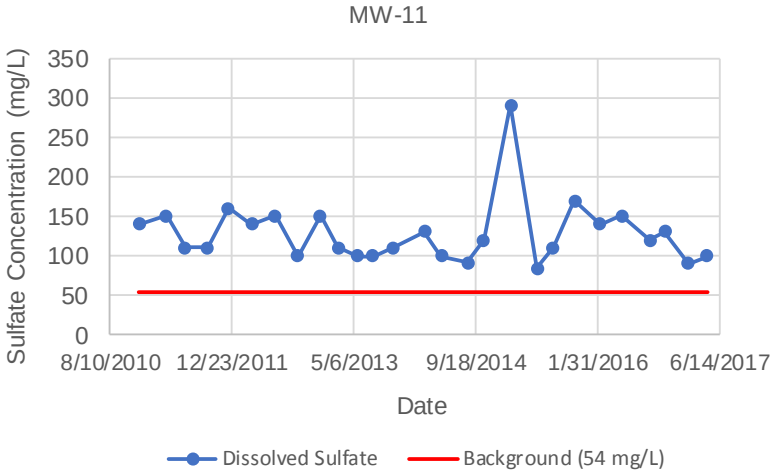


Joliet #29


MW-10
Boron Concentration (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.12 mg/L)


MW-10
Sulfate Concentration (mg/L)
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (54 mg/L)


MW-11
Boron Concentration (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)


MW-11
Sulfate Concentration (mg/L)
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.31	180.00	12/6/2010	0.31	190.00
6/14/2011	0.29	81.00	6/14/2011	0.35	67.00
9/14/2011			9/14/2011	0.44	110.00
12/7/2011			12/7/2011	0.74	150.00
3/15/2012			3/15/2012	0.22	110.00
6/19/2012			6/19/2012		
9/19/2012	0.38	240.00	9/19/2012	0.35	190.00
12/20/2012			12/20/2012	0.42	140.00
3/5/2013			3/5/2013	0.41	130.00
5/23/2013	0.33	140.00	5/23/2013	0.35	150.00
7/22/2013			7/22/2013	0.29	140.00
10/15/2013			10/15/2013	0.41	130.00
2/21/2014			2/21/2014	0.34	61.00
5/1/2014			5/2/2014	0.25	68.00
8/18/2014	0.22	59.00	8/18/2014	0.22	85.00
10/23/2014	0.21	65.00	10/23/2014	0.22	92.00
2/10/2015			2/10/2015	0.23	67.00
5/27/2015			5/27/2015	0.35	100.00
8/4/2015			8/4/2015	0.25	85.00
10/28/2015			10/28/2015	0.21	60.00
2/9/2016			2/9/2016	0.20	88.00
5/11/2016	0.18	170.00	5/11/2016	0.18	100.00
8/30/2016	0.24	74.00	8/30/2016	0.18	62.00
11/3/2016	0.25	62.00	11/1/2016	0.18	41.00
2/6/2017			2/8/2017	0.17	50.00
4/25/2017			4/25/2017	0.15	140.00
Median	0.25	81.00		0.25	100.00
Mean	0.27	119.00		0.30	104.24
Std. Dev	0.06	65.80		0.13	41.81
Maximum	0.38	240.00		0.74	190.00
Minimum	0.18	59.00		0.15	41.00
N	9	9		25	25

NOTE: All concentrations are dissolved unless otherwise noted.

Means the concentration is total recoverable. NOT included in the Statistics or Table.

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-3			MW-4		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/7/2010	0.24	120.00	12/6/2010	0.46	300.00
3/28/2011	0.36	160.00	3/28/2011	0.37	140.00
6/14/2011	0.46	120.00	6/14/2011	0.38	84.00
9/14/2011	0.24	120.00	9/14/2011	0.25	74.00
12/7/2011	0.23	160.00	12/7/2011	0.34	170.00
3/15/2012	0.26	190.00	3/15/2012	0.29	210.00
6/19/2012	0.31	260.00	6/19/2012	0.48	110.00
9/19/2012	0.22	150.00	9/19/2012	0.34	180.00
12/20/2012	0.28	110.00	12/20/2012	0.38	130.00
3/5/2013	0.29	140.00	3/5/2013	0.40	110.00
5/22/2013	0.74	250.00	5/22/2013	0.40	120.00
7/22/2013	0.67	260.00	7/22/2013	0.50	170.00
10/15/2013	0.27	210.00	10/16/2013	0.45	230.00
2/17/2014	0.45	89.00	2/21/2014	0.35	110.00
5/2/2014	0.27	110.00	5/1/2014	0.32	140.00
8/18/2014	0.37	84.00	8/18/2014	0.35	89.00
10/23/2014	0.45	130.00	10/23/2014	0.41	160.00
2/10/2015	0.52	58.00	2/10/2015	0.44	65.00
5/27/2015	0.54	84.00	5/27/2015	0.36	88.00
8/4/2015	0.48	91.00	8/4/2015	0.33	92.00
10/28/2015	0.29	180.00	10/28/2015	0.30	100.00
2/10/2016	0.49	150.00	2/10/2016	0.35	100.00
5/10/2016	0.44	130.00	5/10/2016	0.51	130.00
8/31/2016	0.37	96.00	8/31/2016	0.43	100.00
11/2/2016	0.38	87.00	11/2/2016	0.32	67.00
2/6/2017	0.39	75.00	2/6/2017	0.38	76.00
4/26/2017	0.45	110.00	4/26/2017	0.29	80.00
2/10/2016	0.49	130.00	2/10/2016	0.32	140.00
5/10/2016	0.48	130.00	5/10/2016	0.47	150.00
8/31/2016	0.49	120.00	8/31/2016	0.42	120.00
11/2/2016	0.34	94.00	11/2/2016	0.32	83.00
2/6/2017	0.40	77.00	2/6/2017	0.40	98.00
4/26/2017	0.54	120.00	4/26/2017	0.33	89.00
	0.37	120.00		0.37	110.00
	0.39	137.93		0.38	126.85
	0.13	56.11		0.07	55.33
	0.74	260.00		0.51	300.00
	0.22	58.00		0.25	65.00
	27	27		27	27

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-5			MW-6		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.42	110.00	12/6/2010	0.32	140.00
3/28/2011	0.52	160.00	3/28/2011	0.44	140.00
6/14/2011	0.47	100.00	6/14/2011	0.32	87.00
9/14/2011	0.57	140.00	9/14/2011	0.27	100.00
12/7/2011	0.49	140.00	12/7/2011	0.30	130.00
3/15/2012	0.54	190.00	3/15/2012	0.25	110.00
6/19/2012	0.44	130.00	6/19/2012	0.26	91.00
9/19/2012	0.55	210.00	9/19/2012	0.25	85.00
12/20/2012	0.65	210.00	12/20/2012	0.31	120.00
3/5/2013	0.59	150.00	3/5/2013	0.33	120.00
6/5/2013	0.69	200.00	5/22/2013	0.23	96.00
7/23/2013	0.81	290.00	7/23/2013	0.23	110.00
10/15/2013	0.55	180.00	10/16/2013	0.22	150.00
2/21/2014	0.34	130.00	2/21/2014	0.26	100.00
5/1/2014	0.36	160.00	5/2/2014	0.17	120.00
8/19/2014	0.95	360.00	8/19/2014	0.26	91.00
10/23/2014	0.57	240.00	10/23/2014	0.19	140.00
2/11/2015	0.69	230.00	2/10/2015	0.22	140.00
5/27/2015	1.00	290.00	5/28/2015	0.19	94.00
8/4/2015	1.10	260.00	8/5/2015	0.21	110.00
10/28/2015	0.57	140.00	10/27/2015	0.22	120.00
2/10/2016	0.45	110.00	2/11/2016	0.17	140.00
5/10/2016	0.69	270.00	5/12/2016	0.19	160.00
8/31/2016	0.98	270.00	9/1/2016	0.28	97.00
11/2/2016	0.40	95.00	11/3/2016	0.25	97.00
2/6/2017	0.47	130.00	2/7/2017	0.22	130.00
4/26/2017	0.62	170.00	4/27/2017	0.15	83.00
2/10/2016	0.46	120.00			
5/10/2016	0.80	290.00			
8/31/2016	1.00	260.00			
11/2/2016	0.41	100.00			
2/6/2017	0.48	120.00			
4/26/2017	0.67	170.00			
	0.57	170.00		0.25	110.00
	0.61	187.59		0.25	114.85
	0.20	68.94		0.06	22.15
	1.10	360.00		0.44	160.00
	0.34	95.00		0.15	83.00
	27	27		27	27

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

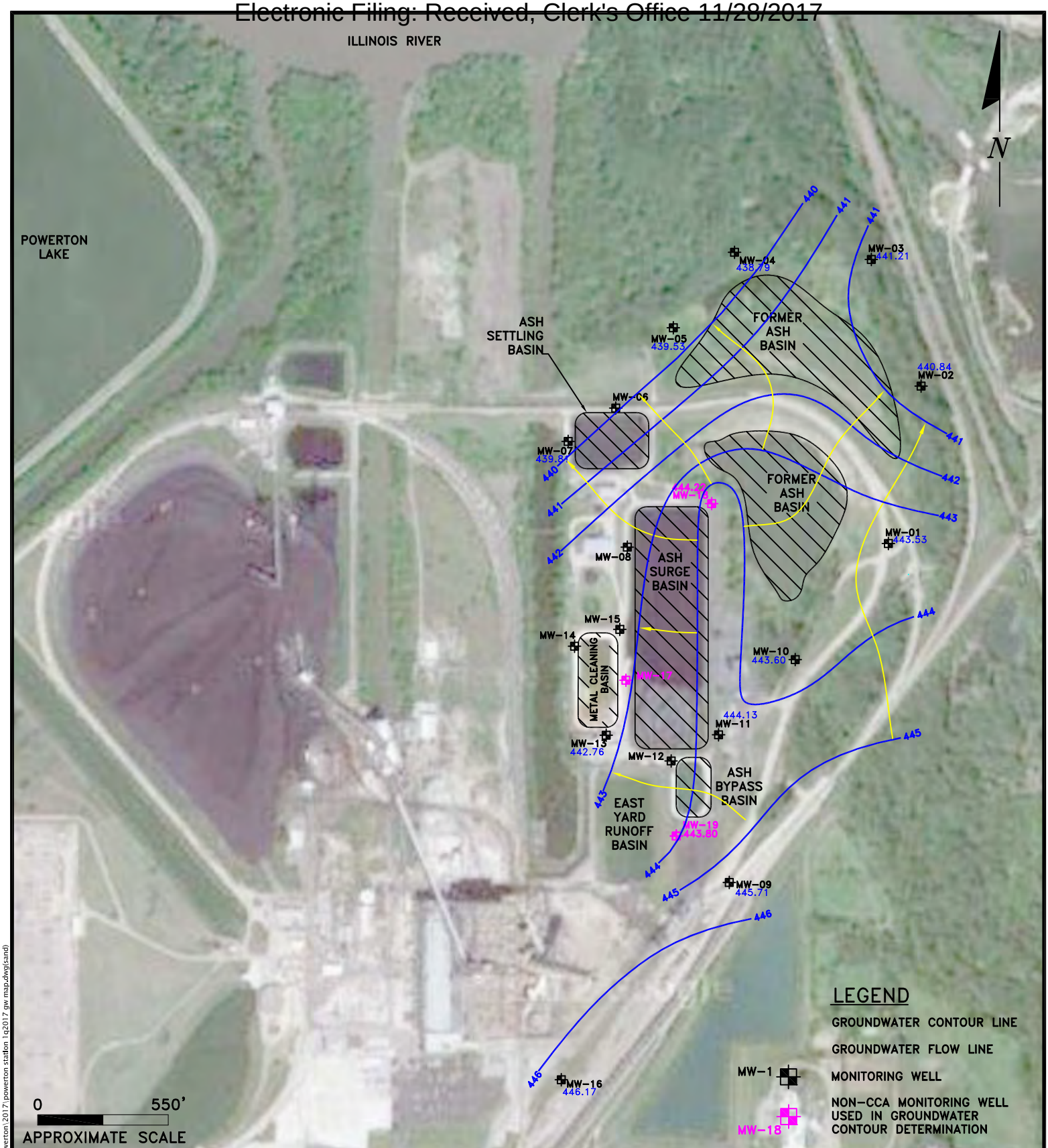
MW-7			MW-8		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.51	250.00	12/6/2010	0.29	210.00
3/28/2011	0.39	120.00	3/28/2011	0.16	87.00
6/14/2011	0.25	85.00	6/14/2011	0.12	52.00
9/14/2011	0.29	110.00	9/14/2011	0.20	120.00
12/7/2011	0.35	160.00	12/7/2011	0.16	170.00
3/15/2012	0.30	140.00	3/15/2012	0.13	130.00
6/19/2012	0.25	190.00	6/19/2012	0.20	110.00
9/19/2012	0.31	130.00	9/19/2012	0.46	180.00
12/20/2012	0.41	90.00	12/20/2012	0.33	130.00
3/5/2013	0.39	150.00	3/5/2013	0.25	150.00
5/22/2013	0.21	150.00	5/23/2013	0.16	99.00
7/23/2013	0.21	74.00	7/22/2013	0.18	72.00
10/16/2013	0.24	190.00	10/15/2013	0.19	74.00
2/21/2014	0.30	170.00	2/21/2014	0.16	54.00
5/2/2014	0.15	110.00	5/1/2014	0.15	460.00
8/19/2014	0.22	82.00	8/18/2014	0.19	59.00
10/23/2014	0.17	120.00	10/23/2014	0.16	73.00
2/10/2015	0.21	260.00	2/10/2015	0.64	600.00
5/28/2015	0.16	80.00	5/27/2015	0.11	25.00
8/5/2015	0.20	99.00	8/4/2015	0.15	31.00
10/27/2015	0.19	110.00	10/27/2015	0.15	41.00
2/11/2016	0.16	140.00	2/9/2016	0.11	48.00
5/12/2016	0.20	180.00	5/11/2016	0.12	70.00
9/1/2016	0.23	75.00	8/30/2016	0.18	23.00
11/3/2016	0.23	100.00	11/1/2016	0.13	50.00
2/7/2017	0.19	85.00	2/7/2017	0.12	43.00
4/27/2017	0.13	74.00	4/25/2017	0.10	57.00
	0.23	120.00		0.16	73.00
	0.25	130.52		0.20	119.19
	0.09	50.95		0.12	129.69
	0.51	260.00		0.64	600.00
	0.13	74.00		0.10	23.00
	27	27		27	27

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-9			MW-10		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.36	1600.00	12/6/2010	0.50	130.00
3/28/2011	0.32	1100.00	3/28/2011	0.54	130.00
6/14/2011	0.29	580.00	6/14/2011	0.54	89.00
9/14/2011	0.35	750.00	9/14/2011	0.41	100.00
12/7/2011	0.31	130.00	12/7/2011	0.52	190.00
3/15/2012	0.38	1600.00	3/15/2012	0.52	250.00
6/19/2012	0.34	1500.00	6/19/2012	0.53	170.00
9/19/2012	0.59	1600.00	9/19/2012	0.43	110.00
12/20/2012	0.44	1100.00	12/20/2012	0.49	120.00
3/5/2013	0.36	700.00	3/5/2013	0.49	84.00
5/23/2013	0.30	1300.00	5/22/2013	0.25	120.00
7/22/2013	0.29	1000.00	7/23/2013	0.30	130.00
10/15/2013	0.29	680.00	10/15/2013	0.42	140.00
2/17/2014	0.30	560.00	2/17/2014	0.40	55.00
5/1/2014	0.27	560.00	5/1/2014	0.39	120.00
8/18/2014	0.29	880.00	8/18/2014	0.48	73.00
10/23/2014	0.24	960.00	10/23/2014	0.56	110.00
2/10/2015	0.30	820.00	2/11/2015	0.52	93.00
5/27/2015	0.37	1100.00	5/28/2015	0.35	50.00
8/4/2015	0.38	1900.00	8/4/2015	0.32	97.00
10/27/2015	0.33	1100.00	10/28/2015	0.44	86.00
2/9/2016	0.36	3600.00	2/10/2016	0.43	110.00
5/11/2016	0.40	12000.00	5/12/2016	0.32	120.00
8/30/2016	0.72	8100.00	8/31/2016	0.34	80.00
11/1/2016	0.47	3600.00	11/2/2016	0.49	92.00
2/8/2017	0.34	1200.00	2/7/2017	0.39	88.00
4/25/2017	0.30	4700.00	4/26/2017	0.29	89.00
			2/10/2016	0.41	120.00
			5/12/2016	0.29	110.00
			8/31/2016	0.36	100.00
			11/2/2016	0.48	95.00
			2/7/2017	0.44	88.00
			4/26/2017	0.35	87.00
	0.34	1100.00		0.43	110.00
	0.36	2026.67		0.43	112.07
	0.10	2587.65		0.09	41.31
	0.72	12000.00		0.56	250.00
	0.24	130.00		0.25	50.00
	27	27		27	27
			Reg. Backgnd. Median	0.12	54.00

JOLIET 29 - DATA UTILIZED FOR HEARING CHARTS AND TABLES

	MW-11	
Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.47	140.00
3/28/2011	2.60	150.00
6/14/2011	2.20	110.00
9/14/2011	1.10	110.00
12/7/2011	1.20	160.00
3/15/2012	1.40	140.00
6/19/2012	0.85	150.00
9/19/2012	0.68	100.00
12/20/2012	0.57	150.00
3/5/2013	1.10	110.00
5/23/2013	0.34	100.00
7/23/2013	0.88	100.00
10/15/2013	0.49	110.00
2/21/2014	1.20	130.00
5/1/2014	1.30	100.00
8/19/2014	1.60	91.00
10/23/2014	2.00	120.00
2/11/2015	1.10	290.00
5/28/2015	1.00	84.00
8/4/2015	1.40	110.00
10/29/2015	0.78	170.00
2/11/2016	1.40	140.00
5/11/2016	1.50	150.00
9/1/2016	1.60	120.00
11/2/2016	1.60	130.00
2/7/2017	1.30	90.00
4/26/2017	1.10	100.00
	1.20	120.00
	1.21	127.96
	0.53	40.11
	2.60	290.00
	0.34	84.00
	27	27



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

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GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 02/2017

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: April 11, 2017

KPRG Project No. 12313.1 | FIGURE 3

W:\projects\midwest generation\12313.1\figures\powerton\2017\powerton station 1q2017 gw map.dwg(sand)

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	0.450	50.00	12/15/2010	0.380	52.00
3/25/2011	0.260	30.00	3/25/2011	0.230	42.00
6/16/2011	0.330	39.00	6/16/2011	0.350	53.00
9/20/2011	1.000	83.00	9/20/2011	0.830	70.00
12/12/2011	0.480	31.00	12/12/2011	0.690	69.00
3/19/2012	0.290	61.00	3/19/2012	0.270	55.00
6/25/2012	0.460	68.00	6/25/2012	0.740	73.00
9/18/2012	1.800	72.00	9/18/2012	0.650	69.00
12/12/2012	1.000	91.00	12/12/2012	0.800	95.00
2/27/2013	1.700	77.00	2/27/2013	0.290	53.00
5/29/2013	0.470	330.00	5/29/2013	0.210	96.00
7/29/2013	0.480	270.00	7/29/2013	1.400	140.00
10/21/2013	0.620	85.00	10/21/2013	2.700	190.00
3/6/2014	0.530	99.00	3/5/2014	0.280	53.00
5/27/2014	0.260	51.00	5/27/2014	0.380	63.00
8/28/2014	0.160	36.00	8/25/2014	1.100	76.00
10/29/2014	0.075	54.00	10/27/2014	0.078	49.00
2/23/2015	0.059	43.00	2/25/2015	0.082	57.00
5/11/2015	0.087	50.00	5/13/2015	0.110	41.00
8/18/2015	0.300	55.00	8/17/2015	0.410	53.00
11/16/2015	0.940	66.00	11/17/2015	0.500	77.00
2/25/2016	0.260	57.00	2/23/2016	0.240	73.00
5/20/2016	0.310	59.00	5/17/2016	0.300	54.00
8/17/2016	0.270	51.00	8/16/2016	0.320	39.00
11/16/2016	0.170	55.00	11/15/2016	0.150	53.00
2/14/2017	0.140	58.00	2/14/2017	0.160	50.00
5/3/2017	0.170	40.00	5/1/2017	0.210	60.00
5/20/2016	0.340	65.00			
8/17/2016	0.270	50.00			
11/16/2016	0.180	32.00			
2/14/2017	0.180	60.00			
5/3/2017	0.19	45.00			
Median	0.310	57.000		0.320	57.000
Mean	0.484	76.333		0.513	68.704
Std. Dev	0.448	67.333		0.542	32.019
Maximum	1.800	330.000		2.700	190.000
Minimum	0.059	30.000		0.078	39.000
N	27	27		27	27

NOTE: All concentrations are dissolved unless otherwise noted.

Means Not Detected and replaced with 1/2 Detection Limit.

Means the concentration is total recoverable. NOT included in the Statistics.

POWERTON - MEDIAN BORON AND SULFATE CONCENTRATIONS COMPARED TO BACKGROUND

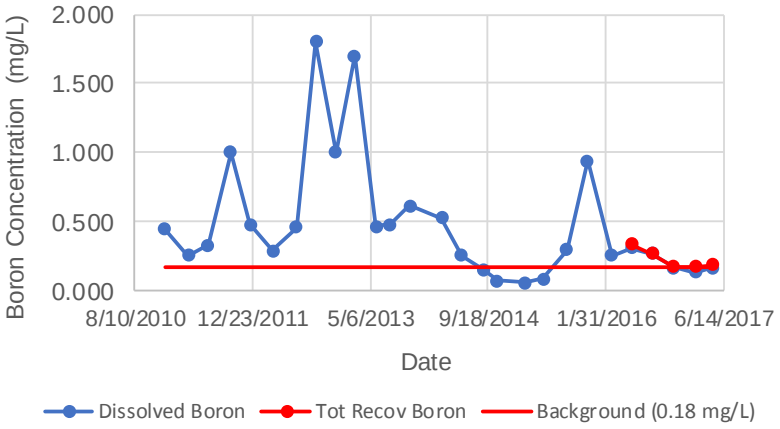
	Boron Concentration (mg/L)		Sulfate Concentration (mg/L)	
Well	Median	Background	Median	Background
MW-1	0.31	0.18	57	40
MW-2	0.32	0.18	57	40
MW-3	0.32	0.18	65	40
MW-4	0.78	0.18	100	40
MW-5	0.72	0.18	170	40
MW-6	0.40	0.18	380	40
MW-7	0.38	0.18	49	40
MW-8	0.86	0.18	300	40
MW-9	2.60	0.18	130	40
MW-10	0.52	0.18	67	40
MW-11	1.40	0.18	200	40
MW-12	0.92	0.18	420	40
MW-13	3.20	0.18	1100	40
MW-14	1.90	0.18	880	40
MW-15	1.40	0.18	420	40
MW-16 (Background)	0.18	0.18	40	40
MW-17	1.40	0.18	720	40
MW-18	0.67	0.18	330	40
MW-19	3.80	0.18	160	40

NOTE: All concentrations are dissolved unless otherwise noted.

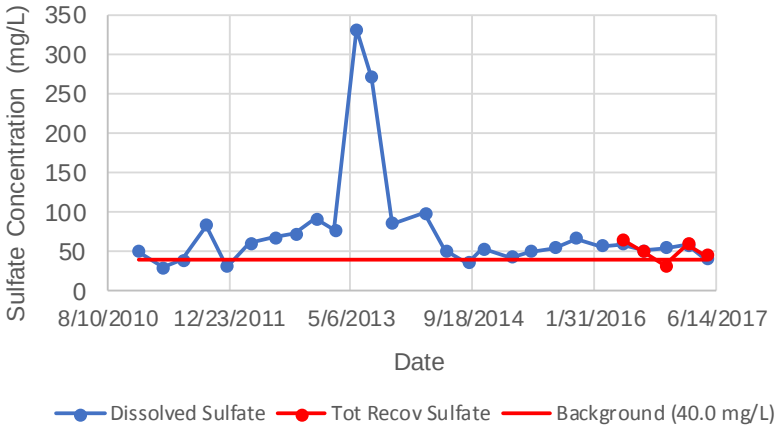
Means there are no dissolved concentrations for these wells. These values are for total recoverable concentrations for the dates shown in the Data tab.

Powerton

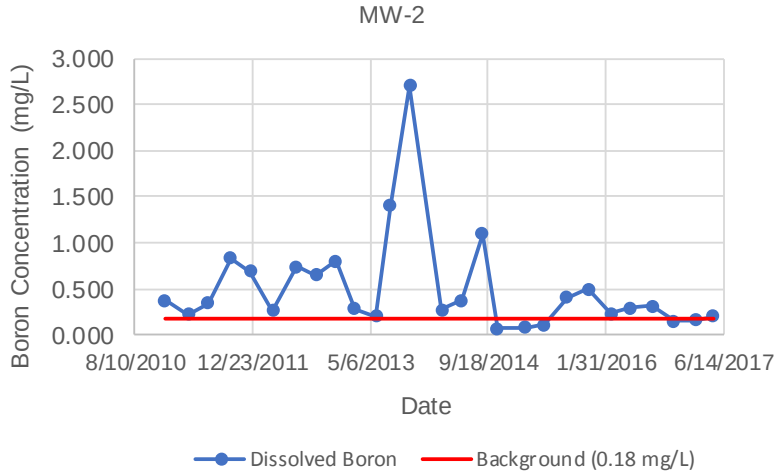
MW-1



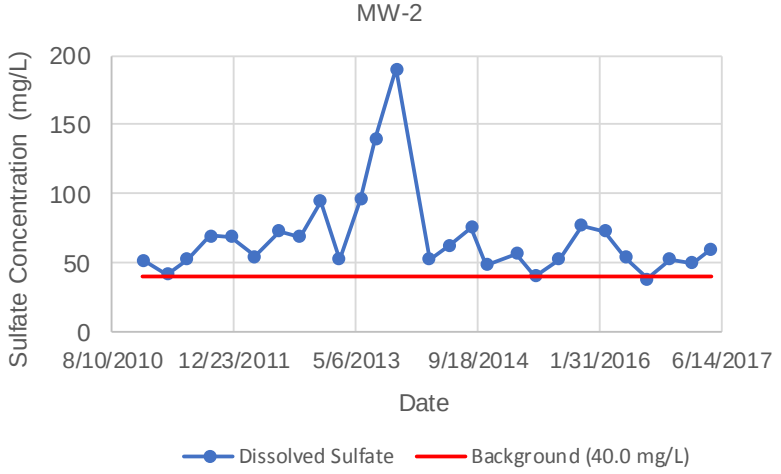
MW-1



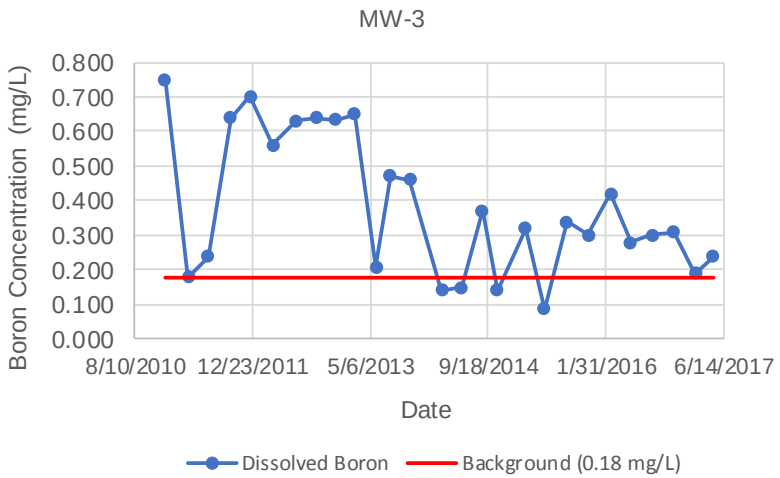
MW-2



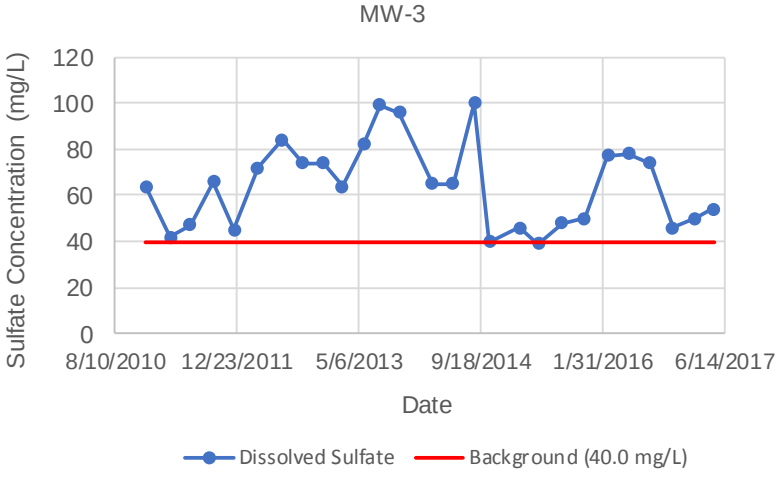
MW-2



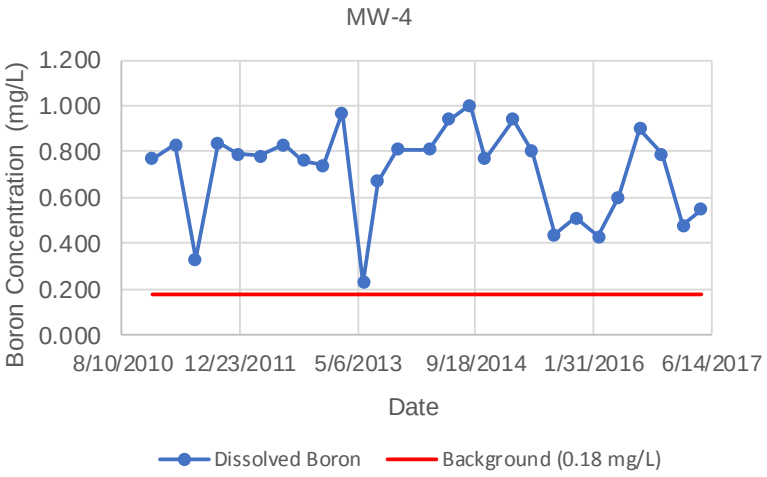
MW-3

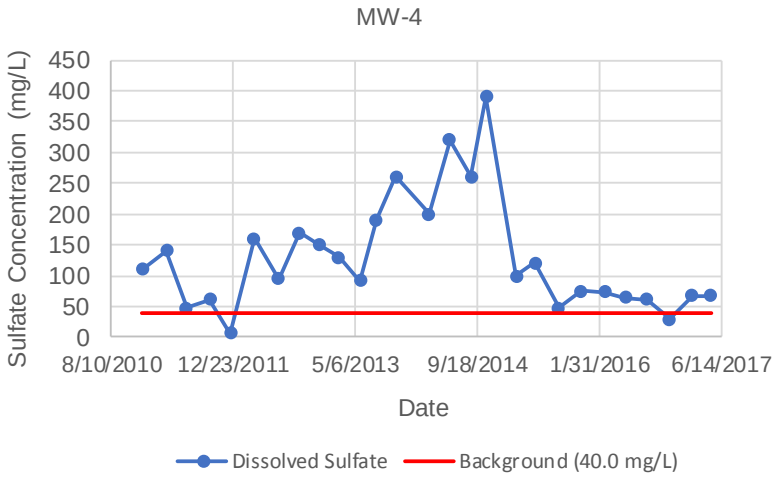


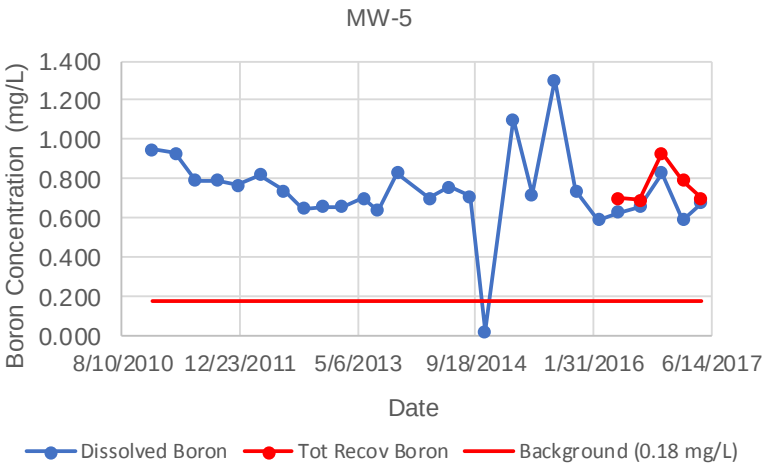
MW-3

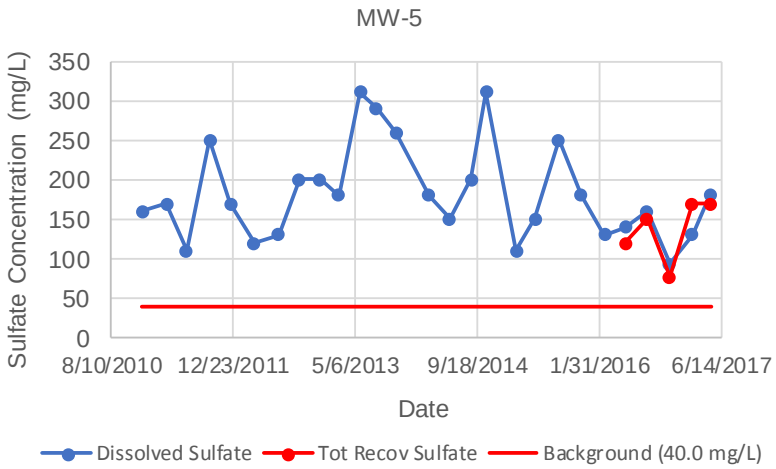


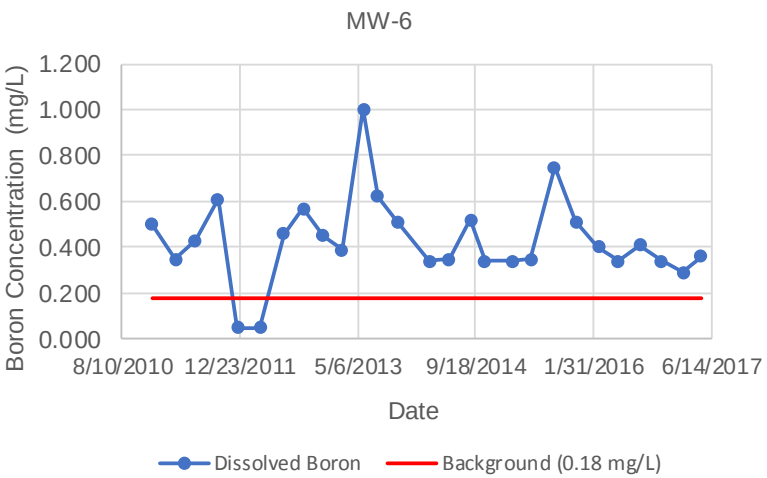
Powerton

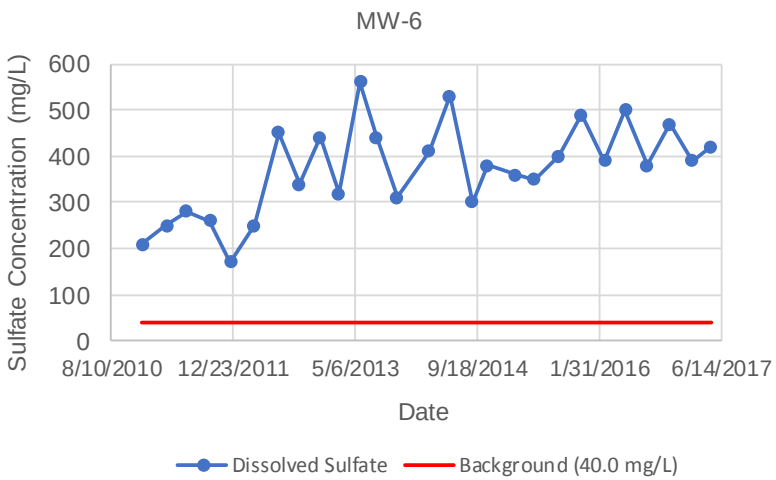

MW-4
Boron Concentration (mg/L)
1.200
1.000
0.800
0.600
0.400
0.200
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.18 mg/L)


MW-4
Sulfate Concentration (mg/L)
450
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (40.0 mg/L)


MW-5
Boron Concentration (mg/L)
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.18 mg/L)

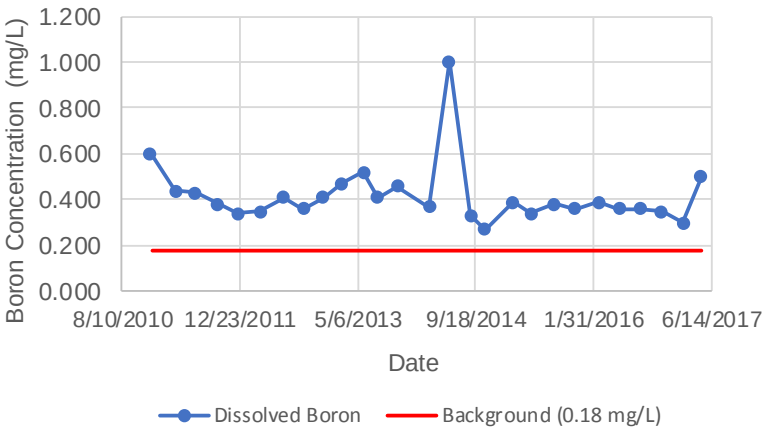

MW-5
Sulfate Concentration (mg/L)
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (40.0 mg/L)


MW-6
Boron Concentration (mg/L)
1.200
1.000
0.800
0.600
0.400
0.200
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.18 mg/L)

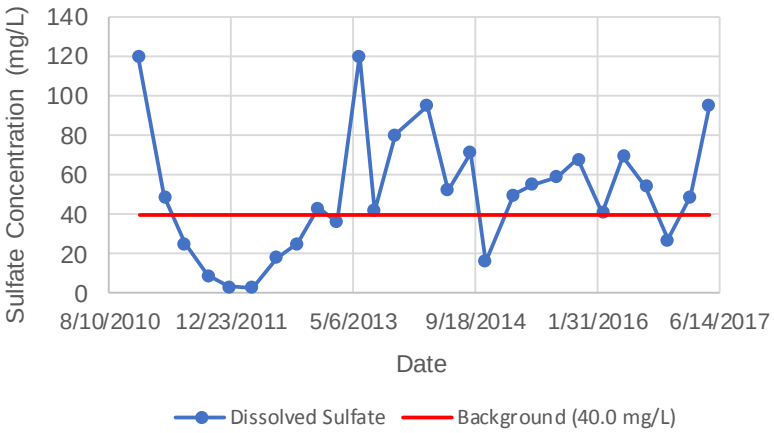

MW-6
Sulfate Concentration (mg/L)
600
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (40.0 mg/L)

Powerton

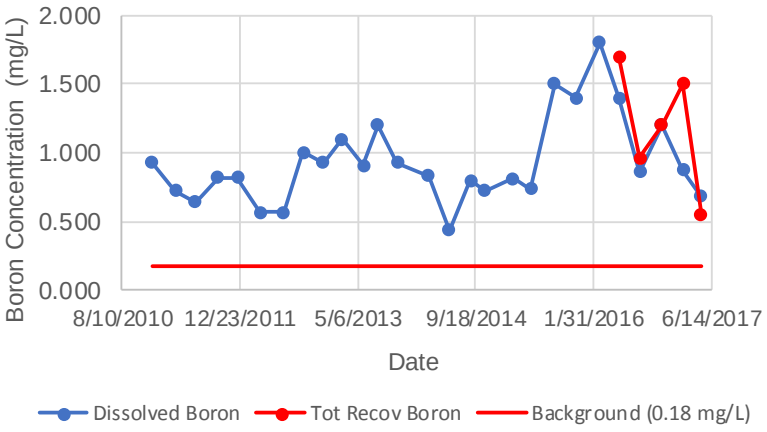
MW-7



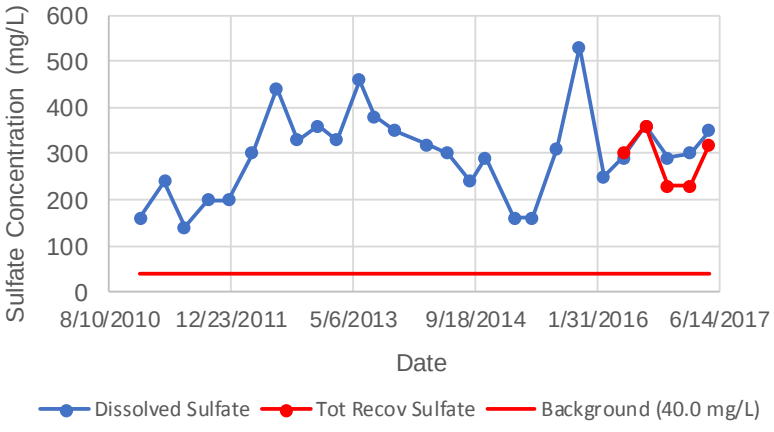
MW-7



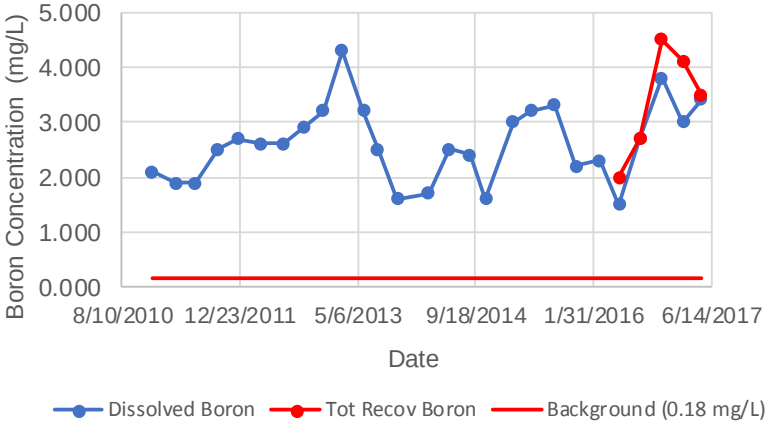
MW-8



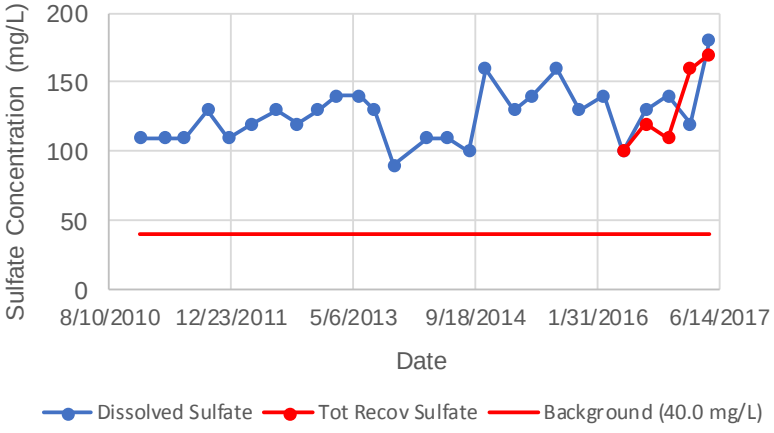
MW-8



MW-9

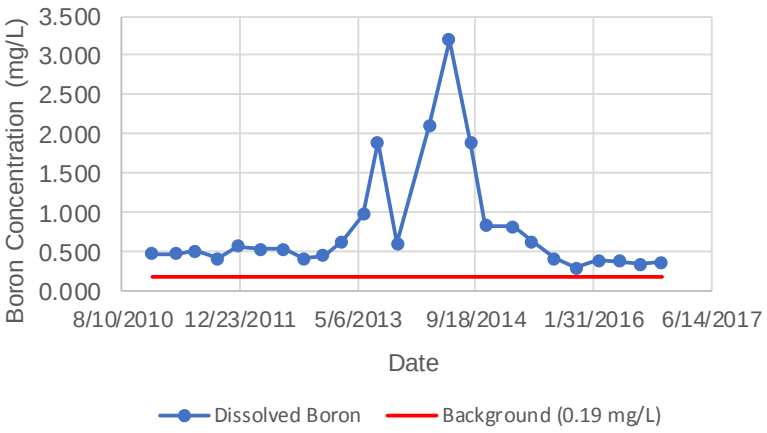


MW-9

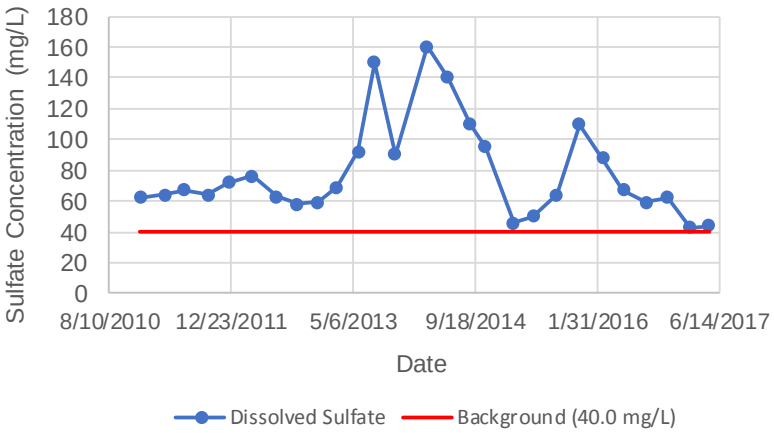


Powerton

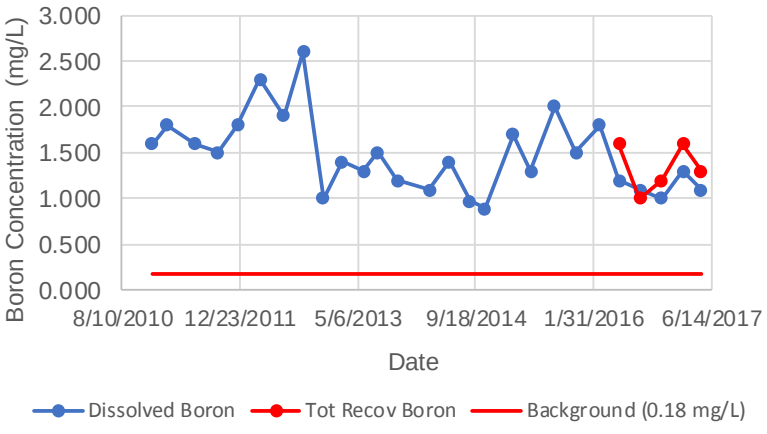
MW-10



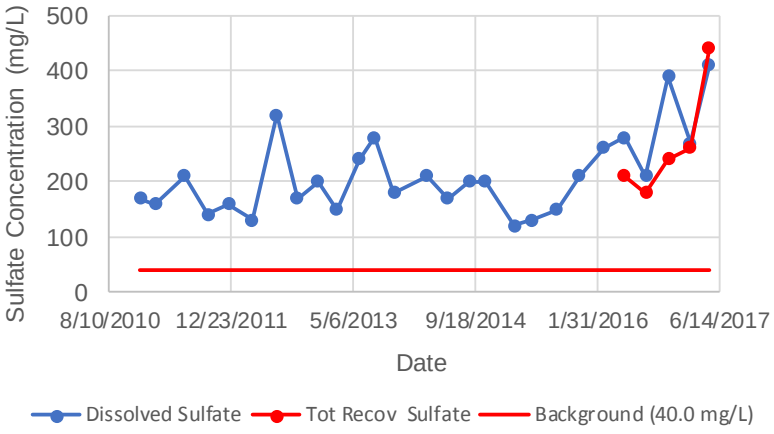
MW-10



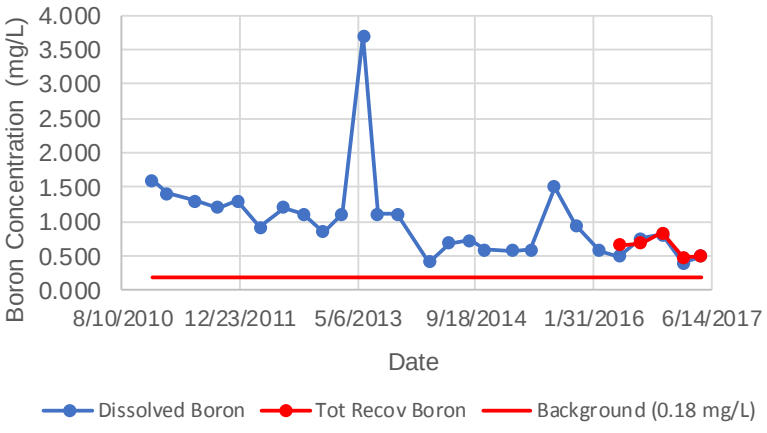
MW-11



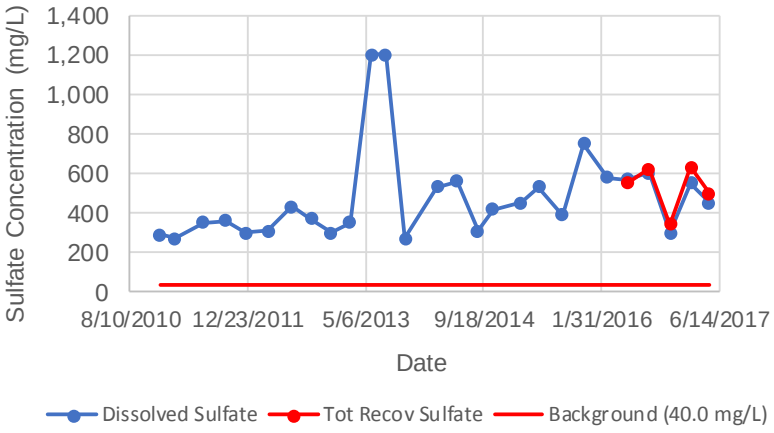
MW-11



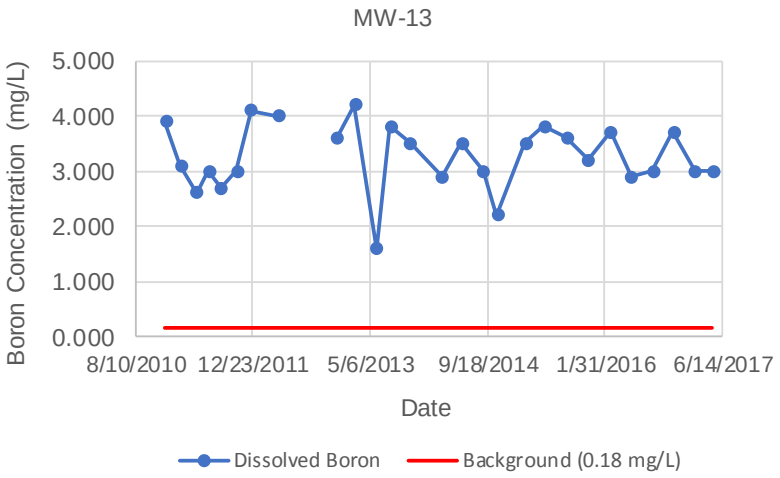
MW-12

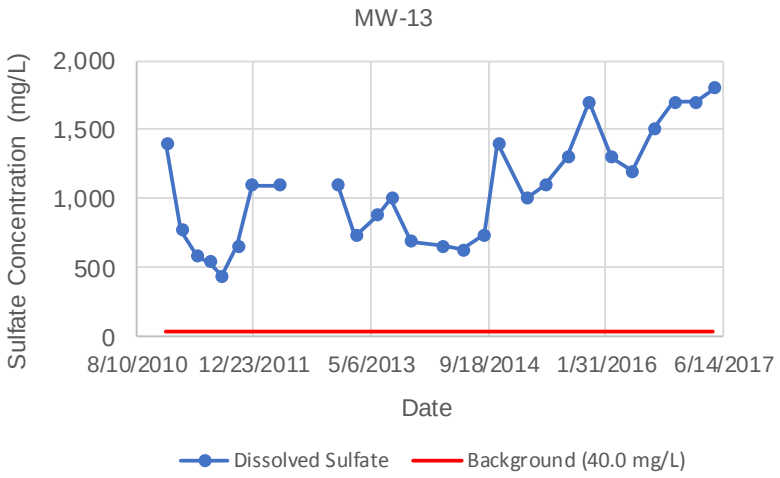


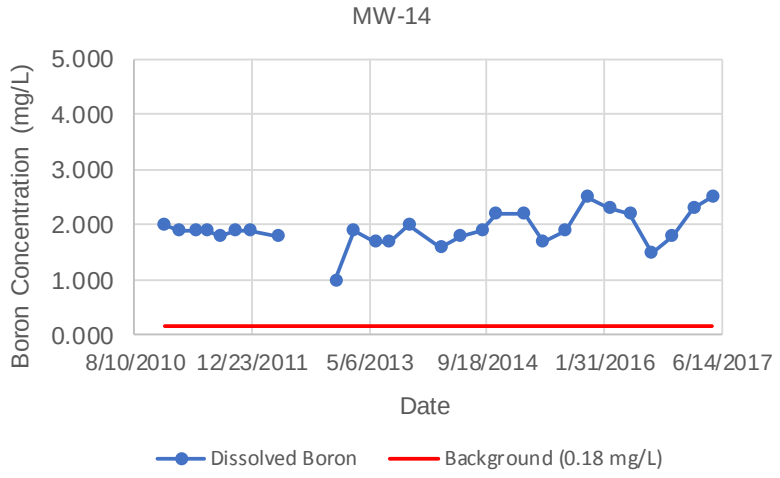
MW-12

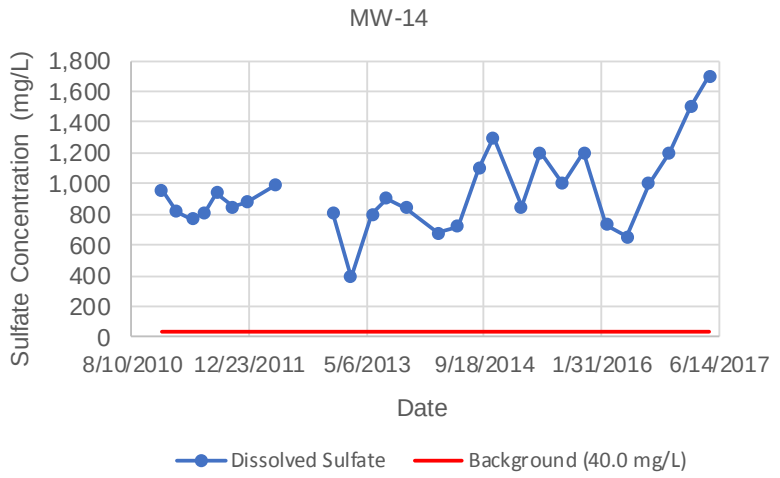


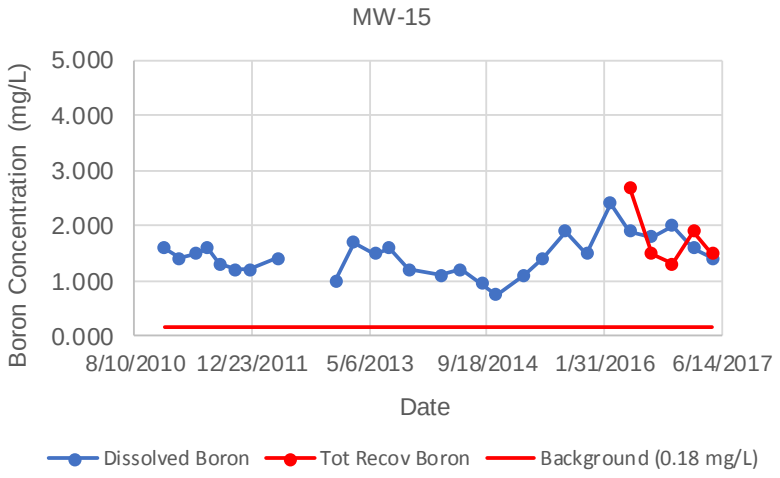
Powerton

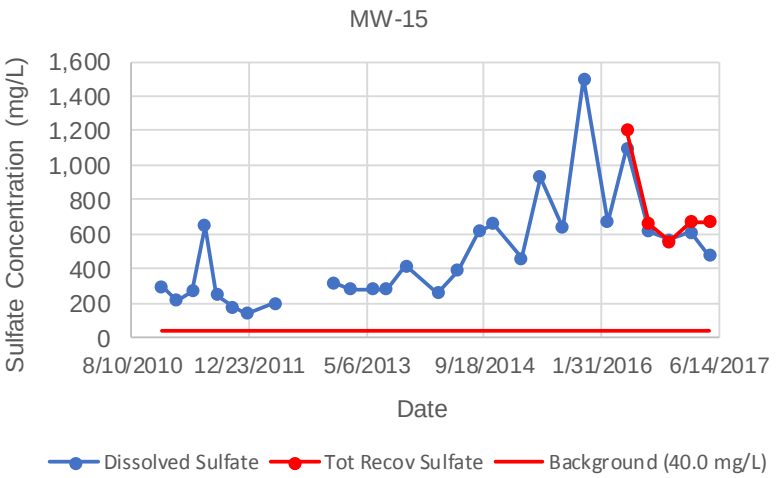

MW-13
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.18 mg/L)


MW-13
Sulfate Concentration (mg/L)
2,000
1,500
1,000
500
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (40.0 mg/L)

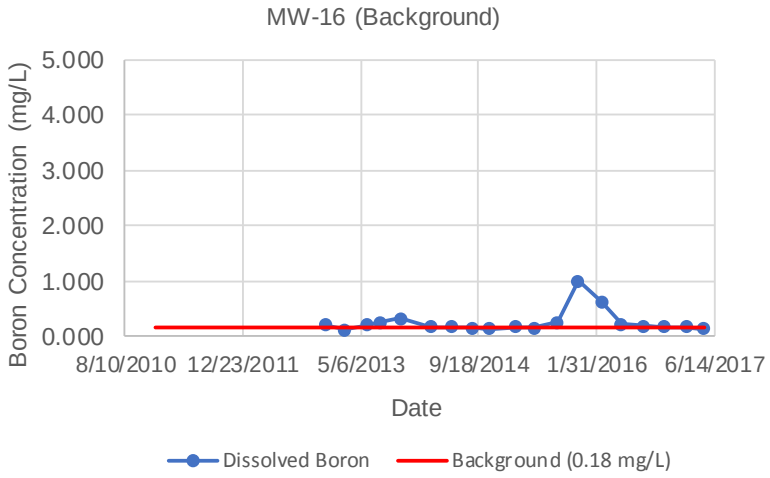

MW-14
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.18 mg/L)

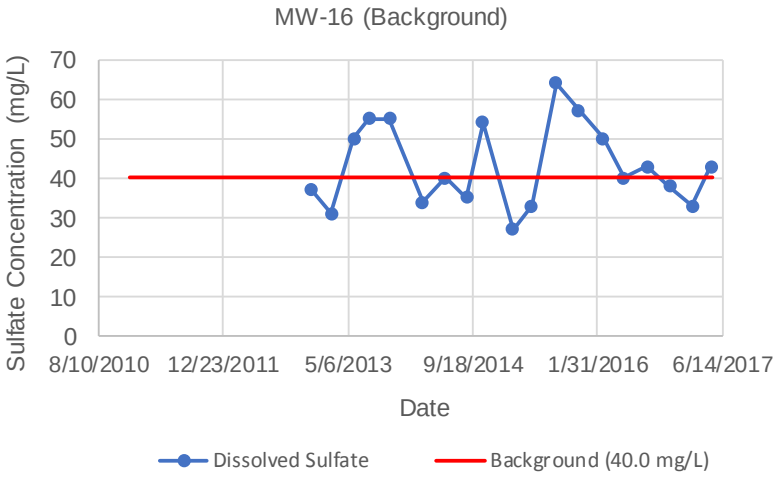

MW-14
Sulfate Concentration (mg/L)
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (40.0 mg/L)

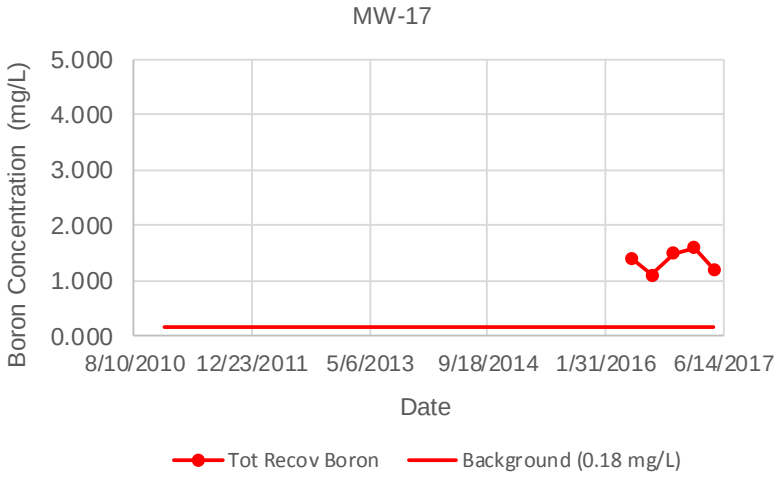

MW-15
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.18 mg/L)

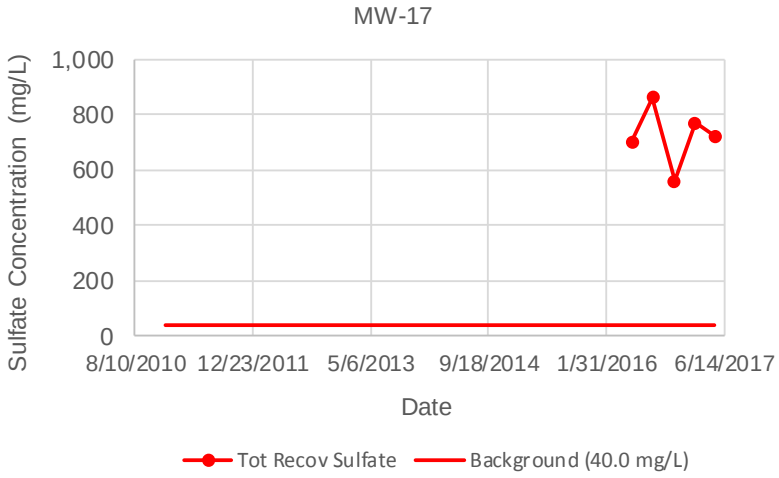

MW-15
Sulfate Concentration (mg/L)
1,600
1,400
1,200
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (40.0 mg/L)

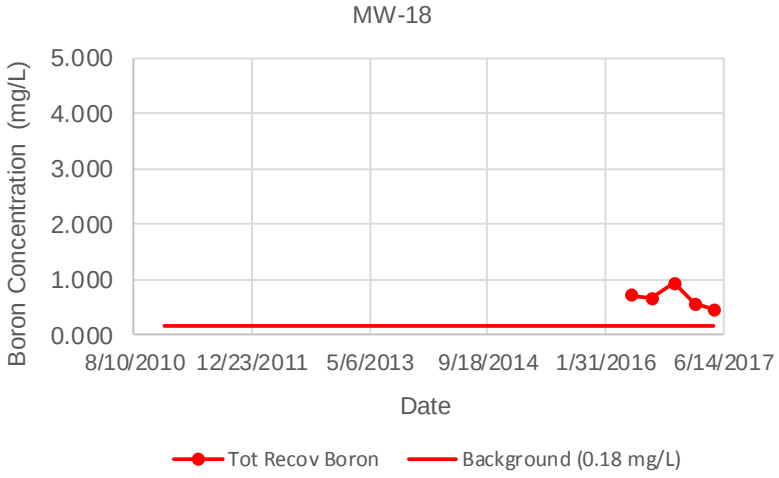
Powerton

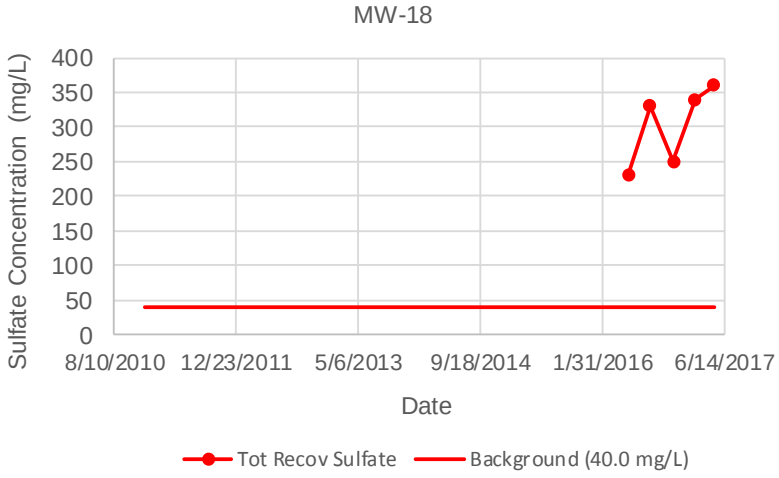

MW-16 (Background)
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.18 mg/L)


MW-16 (Background)
Sulfate Concentration (mg/L)
70
60
50
40
30
20
10
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (40.0 mg/L)

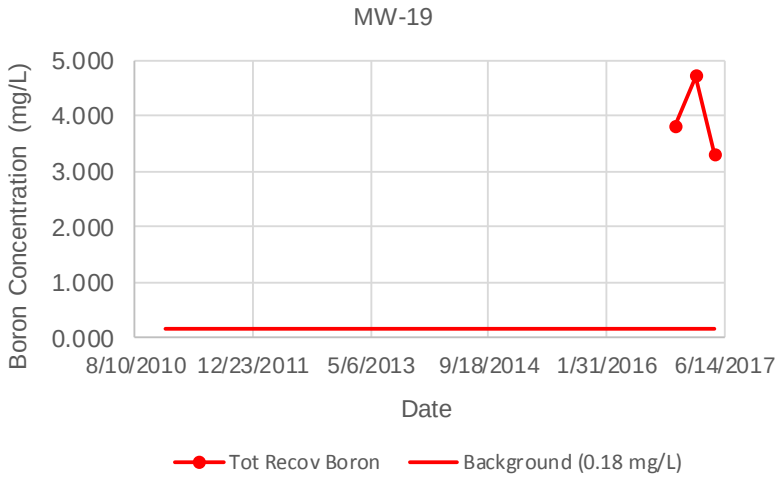

MW-17
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.18 mg/L)

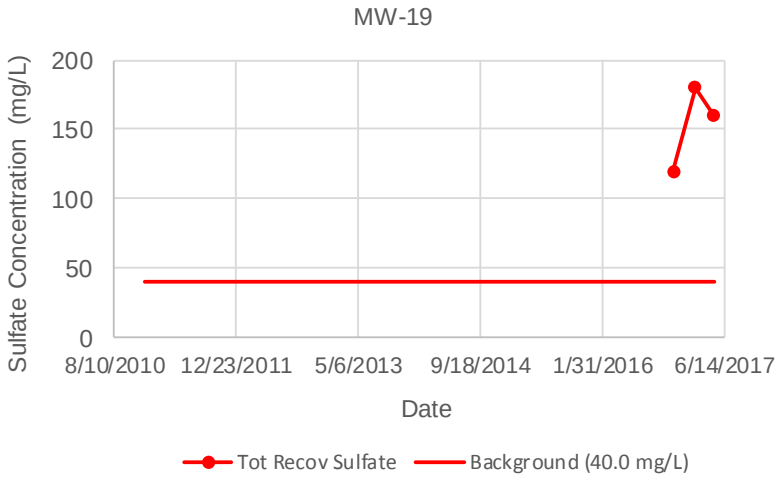

MW-17
Sulfate Concentration (mg/L)
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (40.0 mg/L)


MW-18
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.18 mg/L)


MW-18
Sulfate Concentration (mg/L)
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (40.0 mg/L)

Powerton


MW-19
Boron Concentration (mg/L)
5.000
4.000
3.000
2.000
1.000
0.000
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.18 mg/L)


MW-19
Sulfate Concentration (mg/L)
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (40.0 mg/L)

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	0.450	50.00	12/15/2010	0.380	52.00
3/25/2011	0.260	30.00	3/25/2011	0.230	42.00
6/16/2011	0.330	39.00	6/16/2011	0.350	53.00
9/20/2011	1.000	83.00	9/20/2011	0.830	70.00
12/12/2011	0.480	31.00	12/12/2011	0.690	69.00
3/19/2012	0.290	61.00	3/19/2012	0.270	55.00
6/25/2012	0.460	68.00	6/25/2012	0.740	73.00
9/18/2012	1.800	72.00	9/18/2012	0.650	69.00
12/12/2012	1.000	91.00	12/12/2012	0.800	95.00
2/27/2013	1.700	77.00	2/27/2013	0.290	53.00
5/29/2013	0.470	330.00	5/29/2013	0.210	96.00
7/29/2013	0.480	270.00	7/29/2013	1.400	140.00
10/21/2013	0.620	85.00	10/21/2013	2.700	190.00
3/6/2014	0.530	99.00	3/5/2014	0.280	53.00
5/27/2014	0.260	51.00	5/27/2014	0.380	63.00
8/28/2014	0.160	36.00	8/25/2014	1.100	76.00
10/29/2014	0.075	54.00	10/27/2014	0.078	49.00
2/23/2015	0.059	43.00	2/25/2015	0.082	57.00
5/11/2015	0.087	50.00	5/13/2015	0.110	41.00
8/18/2015	0.300	55.00	8/17/2015	0.410	53.00
11/16/2015	0.940	66.00	11/17/2015	0.500	77.00
2/25/2016	0.260	57.00	2/23/2016	0.240	73.00
5/20/2016	0.310	59.00	5/17/2016	0.300	54.00
8/17/2016	0.270	51.00	8/16/2016	0.320	39.00
11/16/2016	0.170	55.00	11/15/2016	0.150	53.00
2/14/2017	0.140	58.00	2/14/2017	0.160	50.00
5/3/2017	0.170	40.00	5/1/2017	0.210	60.00
5/20/2016	0.340	65.00			
8/17/2016	0.270	50.00			
11/16/2016	0.180	32.00			
2/14/2017	0.180	60.00			
5/3/2017	0.19	45.00			
Median	0.310	57.000		0.320	57.000
Mean	0.484	76.333		0.513	68.704
Std. Dev	0.448	67.333		0.542	32.019
Maximum	1.800	330.000		2.700	190.000
Minimum	0.059	30.000		0.078	39.000
N	27	27		27	27

NOTE: All concentrations are dissolved unless otherwise noted.

Means Not Detected and replaced with 1/2 Detection Limit.

Means the concentration is total recoverable. NOT included in the Statistics.

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-3			MW-4		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	0.750	64.00	12/15/2010	0.77	110.00
3/25/2011	0.180	42.00	3/25/2011	0.83	140.00
6/16/2011	0.240	47.00	6/16/2011	0.33	48.00
9/20/2011	0.640	66.00	9/20/2011	0.84	61.00
12/12/2011	0.700	45.00	12/12/2011	0.79	6.70
3/19/2012	0.560	72.00	3/19/2012	0.78	160.00
6/25/2012	0.630	84.00	6/25/2012	0.83	94.00
9/18/2012	0.640	74.00	9/18/2012	0.76	170.00
12/12/2012	0.633	74.00	12/12/2012	0.74	150.00
2/27/2013	0.650	64.00	2/27/2013	0.97	130.00
5/29/2013	0.210	82.00	5/29/2013	0.23	92.00
7/31/2013	0.470	99.00	7/31/2013	0.67	190.00
10/21/2013	0.460	96.00	10/21/2013	0.81	260.00
3/5/2014	0.140	65.00	3/5/2014	0.81	200.00
5/27/2014	0.150	65.00	5/27/2014	0.94	320.00
8/25/2014	0.370	100.00	8/25/2014	1.00	260.00
10/27/2014	0.140	40.00	10/27/2014	0.77	390.00
2/25/2015	0.320	46.00	2/25/2015	0.94	100.00
5/13/2015	0.086	39.00	5/13/2015	0.80	120.00
8/17/2015	0.340	48.00	8/17/2015	0.44	47.00
11/17/2015	0.300	50.00	11/17/2015	0.51	75.00
2/23/2016	0.420	77.00	2/23/2016	0.43	74.00
5/17/2016	0.280	78.00	5/17/2016	0.60	65.00
8/16/2016	0.300	74.00	8/16/2016	0.90	61.00
11/15/2016	0.310	46.00	11/15/2016	0.79	30.00
2/14/2017	0.190	50.00	2/14/2017	0.48	68.00
5/1/2017	0.240	54.00	5/1/2017	0.55	67.00
	0.320	65.000		0.780	100.000
	0.383	64.481		0.715	129.211
	0.201	18.323		0.201	91.916
	0.750	100.000		1.000	390.000
	0.086	39.000		0.230	6.700
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-5			MW-6		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	0.95	160.00	12/15/2010	0.50	210.00
3/25/2011	0.93	170.00	3/25/2011	0.35	250.00
6/16/2011	0.79	110.00	6/16/2011	0.43	280.00
9/20/2011	0.79	250.00	9/20/2011	0.61	260.00
12/12/2011	0.77	170.00	12/12/2011	0.05	170.00
3/19/2012	0.82	120.00	3/19/2012	0.05	250.00
6/25/2012	0.74	130.00	6/25/2012	0.46	450.00
9/18/2012	0.65	200.00	9/18/2012	0.57	340.00
12/12/2012	0.66	200.00	12/12/2012	0.45	440.00
2/27/2013	0.66	180.00	2/27/2013	0.39	320.00
5/29/2013	0.70	310.00	5/29/2013	1.00	560.00
7/31/2013	0.64	290.00	7/31/2013	0.62	440.00
10/21/2013	0.83	260.00	10/23/2013	0.51	310.00
3/5/2014	0.70	180.00	3/6/2014	0.34	410.00
5/27/2014	0.76	150.00	5/29/2014	0.35	530.00
8/25/2014	0.71	200.00	8/27/2014	0.52	300.00
10/27/2014	0.025	310.00	10/29/2014	0.34	380.00
2/25/2015	1.10	110.00	2/23/2015	0.34	360.00
5/13/2015	0.72	150.00	5/11/2015	0.35	350.00
8/17/2015	1.30	250.00	8/18/2015	0.75	400.00
11/17/2015	0.74	180.00	11/17/2015	0.51	490.00
2/23/2016	0.59	130.00	2/23/2016	0.40	390.00
5/17/2016	0.63	140.00	5/17/2016	0.34	500.00
8/16/2016	0.66	160.00	8/16/2016	0.41	380.00
11/15/2016	0.83	94.00	11/16/2016	0.34	470.00
2/14/2017	0.59	130.00	2/16/2017	0.29	390.00
5/1/2017	0.68	180.00	5/2/2017	0.36	420.00
5/17/2016	0.70	120.00			
8/16/2016	0.69	150.00			
11/15/2016	0.93	77.00			
2/14/2017	0.79	170.00			
5/1/2017	0.70	170.00			
	0.720	170.000		0.400	380.000
	0.739	182.000		0.431	372.222
	0.212	60.729		0.188	98.463
	1.300	310.000		1.000	560.000
	0.025	94.000		0.050	170.000
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-7			MW-8		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/6/2010	0.60	120.00	12/15/2010	0.93	160.00
3/25/2011	0.44	49.00	3/25/2011	0.72	240.00
6/16/2011	0.43	25.00	6/16/2011	0.64	140.00
9/20/2011	0.38	9.10	9/20/2011	0.82	200.00
12/12/2011	0.34	3.30	12/12/2011	0.82	200.00
3/19/2012	0.35	3.00	3/19/2012	0.57	300.00
6/25/2012	0.41	18.00	6/25/2012	0.57	440.00
9/18/2012	0.36	25.00	9/18/2012	1.00	330.00
12/12/2012	0.41	43.00	12/12/2012	0.93	360.00
2/27/2013	0.47	36.00	2/27/2013	1.10	330.00
5/31/2013	0.52	120.00	5/30/2013	0.91	460.00
7/31/2013	0.41	42.00	7/31/2013	1.20	380.00
10/23/2013	0.46	80.00	10/23/2013	0.93	350.00
3/5/2014	0.37	95.00	3/3/2014	0.83	320.00
5/29/2014	1.00	52.00	5/28/2014	0.44	300.00
8/27/2014	0.33	71.00	8/27/2014	0.80	240.00
10/29/2014	0.27	16.00	10/28/2014	0.72	290.00
2/23/2015	0.39	50.00	2/26/2015	0.81	160.00
5/11/2015	0.34	55.00	5/11/2015	0.74	160.00
8/18/2015	0.38	59.00	8/18/2015	1.50	310.00
11/16/2015	0.36	68.00	11/18/2015	1.40	530.00
2/24/2016	0.39	41.00	2/25/2016	1.80	250.00
5/18/2016	0.36	69.00	5/18/2016	1.40	290.00
8/19/2016	0.36	54.00	8/17/2016	0.86	360.00
11/16/2016	0.35	27.00	11/15/2016	1.20	290.00
2/16/2017	0.30	49.00	2/16/2017	0.87	300.00
5/2/2017	0.50	95.00	5/2/2017	0.68	350.00
			5/18/2016	1.70	300.00
			8/17/2016	0.96	360.00
			11/15/2016	1.20	230.00
			2/16/2017	1.50	230.00
			5/2/2017	0.55	320.00
	0.380	49.000		0.860	300.000
	0.418	50.904		0.933	297.778
	0.136	31.861		0.313	94.720
	1.000	120.000		1.800	530.000
	0.270	3.000		0.440	140.000
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-9			MW-10		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/16/2010	2.10	110.00	12/15/2010	0.48	62.00
3/25/2011	1.90	110.00	3/25/2011	0.48	64.00
6/16/2011	1.90	110.00	6/16/2011	0.52	67.00
9/20/2011	2.50	130.00	9/20/2011	0.42	64.00
12/12/2011	2.70	110.00	12/12/2011	0.57	72.00
3/19/2012	2.60	120.00	3/19/2012	0.54	76.00
6/25/2012	2.60	130.00	6/25/2012	0.54	63.00
9/18/2012	2.90	120.00	9/18/2012	0.42	58.00
12/12/2012	3.20	130.00	12/12/2012	0.46	59.00
2/27/2013	4.30	140.00	2/27/2013	0.64	69.00
5/30/2013	3.20	140.00	5/29/2013	0.98	92.00
7/30/2013	2.50	130.00	7/31/2013	1.90	150.00
10/22/2013	1.60	90.00	10/23/2013	0.61	90.00
3/3/2014	1.70	110.00	3/6/2014	2.10	160.00
5/29/2014	2.50	110.00	5/30/2014	3.20	140.00
8/26/2014	2.40	100.00	8/28/2014	1.90	110.00
10/30/2014	1.60	160.00	10/30/2014	0.84	95.00
2/24/2015	3.00	130.00	2/23/2015	0.83	46.00
5/12/2015	3.20	140.00	5/14/2015	0.64	50.00
8/19/2015	3.30	160.00	8/18/2015	0.42	64.00
11/18/2015	2.20	130.00	11/18/2015	0.30	110.00
2/25/2016	2.30	140.00	2/24/2016	0.40	88.00
5/19/2016	1.50	100.00	5/18/2016	0.38	67.00
8/17/2016	2.70	130.00	8/19/2016	0.35	59.00
11/17/2016	3.80	140.00	11/16/2016	0.37	62.00
2/15/2017	3.00	120.00	2/15/2017	0.48	43.00
5/3/2017	3.40	180.00	5/2/2017	0.49	44.00
5/19/2016	2.00	100.00			
8/17/2016	2.70	120.00			
11/17/2016	4.50	110.00			
2/15/2017	4.10	160.00			
5/3/2017	3.50	170.00			
	2.600	130.000		0.520	67.000
	2.615	126.667		0.787	78.667
	0.694	20.191		0.684	31.327
	4.300	180.000		3.200	160.000
	1.500	90.000		0.300	43.000
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-11			MW-12		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/16/2010	1.60	170.00	12/16/2010	1.60	290.00
2/15/2011	1.80	160.00	2/15/2011	1.40	270.00
6/16/2011	1.60	210.00	6/16/2011	1.30	350.00
9/19/2011	1.50	140.00	9/19/2011	1.20	360.00
12/12/2011	1.80	160.00	12/12/2011	1.30	300.00
3/19/2012	2.30	130.00	3/19/2012	0.92	310.00
6/25/2012	1.90	320.00	6/25/2012	1.20	430.00
9/18/2012	2.60	170.00	9/18/2012	1.10	370.00
12/12/2012	1.00	200.00	12/12/2012	0.85	300.00
2/27/2013	1.40	150.00	2/27/2013	1.10	350.00
5/30/2013	1.30	240.00	5/30/2013	3.70	1200.00
7/30/2013	1.50	280.00	7/29/2013	1.10	1200.00
10/22/2013	1.20	180.00	10/22/2013	1.10	270.00
3/4/2014	1.10	210.00	3/4/2014	0.41	530.00
5/29/2014	1.40	170.00	5/29/2014	0.69	560.00
8/26/2014	0.97	200.00	8/26/2014	0.73	310.00
10/28/2014	0.89	200.00	10/28/2014	0.59	420.00
2/24/2015	1.70	120.00	2/24/2015	0.58	450.00
5/12/2015	1.30	130.00	5/12/2015	0.59	530.00
8/19/2015	2.00	150.00	8/19/2015	1.50	390.00
11/19/2015	1.50	210.00	11/19/2015	0.94	750.00
2/26/2016	1.80	260.00	2/26/2016	0.57	580.00
5/20/2016	1.20	280.00	5/20/2016	0.50	570.00
8/17/2016	1.10	210.00	8/18/2016	0.75	600.00
11/17/2016	1.00	390.00	11/18/2016	0.81	300.00
2/16/2017	1.30	270.00	2/16/2017	0.40	550.00
5/3/2017	1.10	410.00	5/3/2017	0.50	450.00
5/20/2016	1.60	210.00	5/20/2016	0.65	550.00
8/17/2016	1.00	180.00	8/18/2016	0.69	620.00
11/17/2016	1.20	240.00	11/18/2016	0.83	340.00
2/16/2017	1.60	260.00	2/16/2017	0.48	630.00
5/3/2017	1.30	440.00	5/3/2017	0.49	500.00
	1.400	200.000		0.920	420.000
	1.476	211.852		1.016	481.111
	0.417	74.732		0.637	241.316
	2.600	410.000		3.700	1200.000
	0.890	120.000		0.400	270.000
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-13			MW-14		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	3.90	1400.00	12/15/2010	2.00	960.00
2/15/2011	3.10	770.00	2/15/2011	1.90	820.00
4/25/2011	2.60	580.00	4/25/2011	1.90	770.00
6/16/2011	3.00	540.00	6/16/2011	1.90	810.00
8/9/2011	2.70	440.00	8/9/2011	1.80	940.00
10/13/2011	3.00	660.00	10/13/2011	1.90	850.00
12/12/2011	4.10	1100.00	12/12/2011	1.90	880.00
4/10/2012	4.00	1100.00	4/10/2012	1.80	990.00
6/25/2012			6/25/2012		
9/18/2012			9/18/2012		
12/14/2012	3.60	1100.00	12/14/2012	1.00	810.00
2/28/2013	4.20	730.00	2/28/2013	1.90	390.00
5/30/2013	1.60	880.00	5/30/2013	1.70	800.00
7/30/2013	3.80	1000.00	7/30/2013	1.70	900.00
10/22/2013	3.50	690.00	10/23/2013	2.00	840.00
3/4/2014	2.90	660.00	3/4/2014	1.60	680.00
5/28/2014	3.50	630.00	5/28/2014	1.80	720.00
8/27/2014	3.00	740.00	8/28/2014	1.90	1100.00
10/29/2014	2.20	1400.00	10/29/2014	2.20	1300.00
2/26/2015	3.50	1000.00	2/26/2015	2.20	850.00
5/13/2015	3.80	1100.00	5/13/2015	1.70	1200.00
8/19/2015	3.60	1300.00	8/19/2015	1.90	1000.00
11/19/2015	3.20	1700.00	11/18/2015	2.50	1200.00
2/24/2016	3.70	1300.00	2/24/2016	2.30	730.00
5/19/2016	2.90	1200.00	5/19/2016	2.20	650.00
8/18/2016	3.00	1500.00	8/18/2016	1.50	1000.00
11/17/2016	3.70	1700.00	11/17/2016	1.80	1200.00
2/17/2017	3.00	1700.00	2/17/2017	2.30	1500.00
5/4/2017	3.00	1800.00	5/4/2017	2.50	1700.00
	3.200	1100.000		1.900	880.000
	3.263	1063.704		1.919	947.778
	0.596	402.111		0.313	272.627
	4.200	1800.000		2.500	1700.000
	1.600	440.000		1.000	390.000
	27	27		27	27

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-15			MW-16 (Background)		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010	1.60	300.00	12/12/2012	0.20	37.00
2/15/2011	1.40	220.00	2/27/2013	0.13	31.00
4/25/2011	1.50	270.00	5/29/2013	0.20	50.00
6/16/2011	1.60	650.00	7/29/2013	0.26	55.00
8/9/2011	1.30	250.00	10/22/2013	0.33	55.00
10/13/2011	1.20	180.00	3/3/2014	0.17	34.00
12/12/2011	1.20	140.00	5/30/2014	0.17	40.00
4/10/2012	1.40	200.00	8/26/2014	0.15	35.00
6/25/2012			10/30/2014	0.14	54.00
9/18/2012			2/24/2015	0.17	27.00
12/14/2012	1.00	320.00	5/12/2015	0.15	33.00
2/28/2013	1.70	280.00	8/18/2015	0.25	64.00
5/30/2013	1.50	280.00	11/16/2015	1.00	57.00
7/30/2013	1.60	280.00	2/24/2016	0.63	50.00
10/23/2013	1.20	420.00	5/16/2016	0.23	40.00
3/6/2014	1.10	260.00	8/19/2016	0.19	43.00
5/28/2014	1.20	390.00	11/16/2016	0.18	38.00
8/27/2014	0.95	620.00	2/15/2017	0.17	33.00
10/28/2014	0.74	660.00	5/2/2017	0.14	43.00
2/26/2015	1.10	460.00			
5/14/2015	1.40	930.00			
8/19/2015	1.90	640.00			
11/18/2015	1.50	1500.00			
2/25/2016	2.40	670.00			
5/19/2016	1.90	1100.00			
8/18/2016	1.80	620.00			
11/17/2016	2.00	570.00			
2/17/2017	1.60	610.00			
5/4/2017	1.40	480.00			
5/19/2016	2.70	1200.00			
8/18/2016	1.50	660.00			
11/17/2016	1.30	560.00			
2/17/2017	1.90	670.00			
5/4/2017	1.50	670.00			
	1.400	420.000		0.180	40.000
	1.451	492.593		0.256	43.105
	0.360	309.920		0.212	10.456
	2.400	1500.000		1.000	64.000
	0.740	140.000		0.130	27.000
	27	27		19	19
			Reg. Backgnd. Median	0.12	54

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-17			MW-18		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010			12/15/2010		
3/25/2011			3/25/2011		
6/16/2011			6/16/2011		
9/20/2011			9/20/2011		
12/12/2011			12/12/2011		
3/19/2012			3/19/2012		
6/25/2012			6/25/2012		
9/18/2012			9/18/2012		
12/12/2012			12/12/2012		
2/27/2013			2/27/2013		
5/29/2013			5/29/2013		
7/29/2013			7/29/2013		
10/21/2013			10/21/2013		
3/6/2014			3/6/2014		
5/27/2014			5/27/2014		
8/28/2014			8/28/2014		
10/29/2014			10/29/2014		
2/23/2015			2/23/2015		
5/11/2015			5/11/2015		
8/18/2015			8/18/2015		
11/16/2015			11/16/2015		
2/25/2016			2/25/2016		
5/20/2016			5/20/2016		
8/17/2016			8/17/2016		
11/16/2016			11/16/2016		
2/14/2017			2/14/2017		
5/3/2017			5/3/2017		
5/18/2016	1.40	700.00	5/18/2016	0.72	230.00
8/15/2016	1.10	860.00	8/15/2016	0.67	330.00
11/14/2016	1.50	560.00	11/18/2016	0.94	250.00
2/13/2017	1.60	770.00	2/15/2017	0.56	340.00
5/4/2017	1.20	720.00	5/5/2017	0.46	360.00
	1.40	720.00		0.67	330.00
	1.36	722.00		0.67	302.00
	0.21	109.64		0.18	58.05
	1.60	860.00		0.94	360.00
	1.10	560.00		0.46	230.00
	5	5		5	5

POWERTON - DATA UTILIZED FOR HEARING CHARTS AND TABLES

	MW-19	
Date	Boron (mg/L)	Sulfate (mg/L)
12/15/2010		
3/25/2011		
6/16/2011		
9/20/2011		
12/12/2011		
3/19/2012		
6/25/2012		
9/18/2012		
12/12/2012		
2/27/2013		
5/29/2013		
7/29/2013		
10/21/2013		
3/6/2014		
5/27/2014		
8/28/2014		
10/29/2014		
2/23/2015		
5/11/2015		
8/18/2015		
11/16/2015		
2/25/2016		
5/20/2016		
8/17/2016		
11/16/2016		
2/14/2017		
5/3/2017		
11/18/2016	3.80	120.00
2/15/2017	4.70	180.00
5/5/2017	3.30	160.00

3.80	160.00
3.93	153.33
0.71	30.55
4.70	180.00
3.30	120.00
3	3

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG

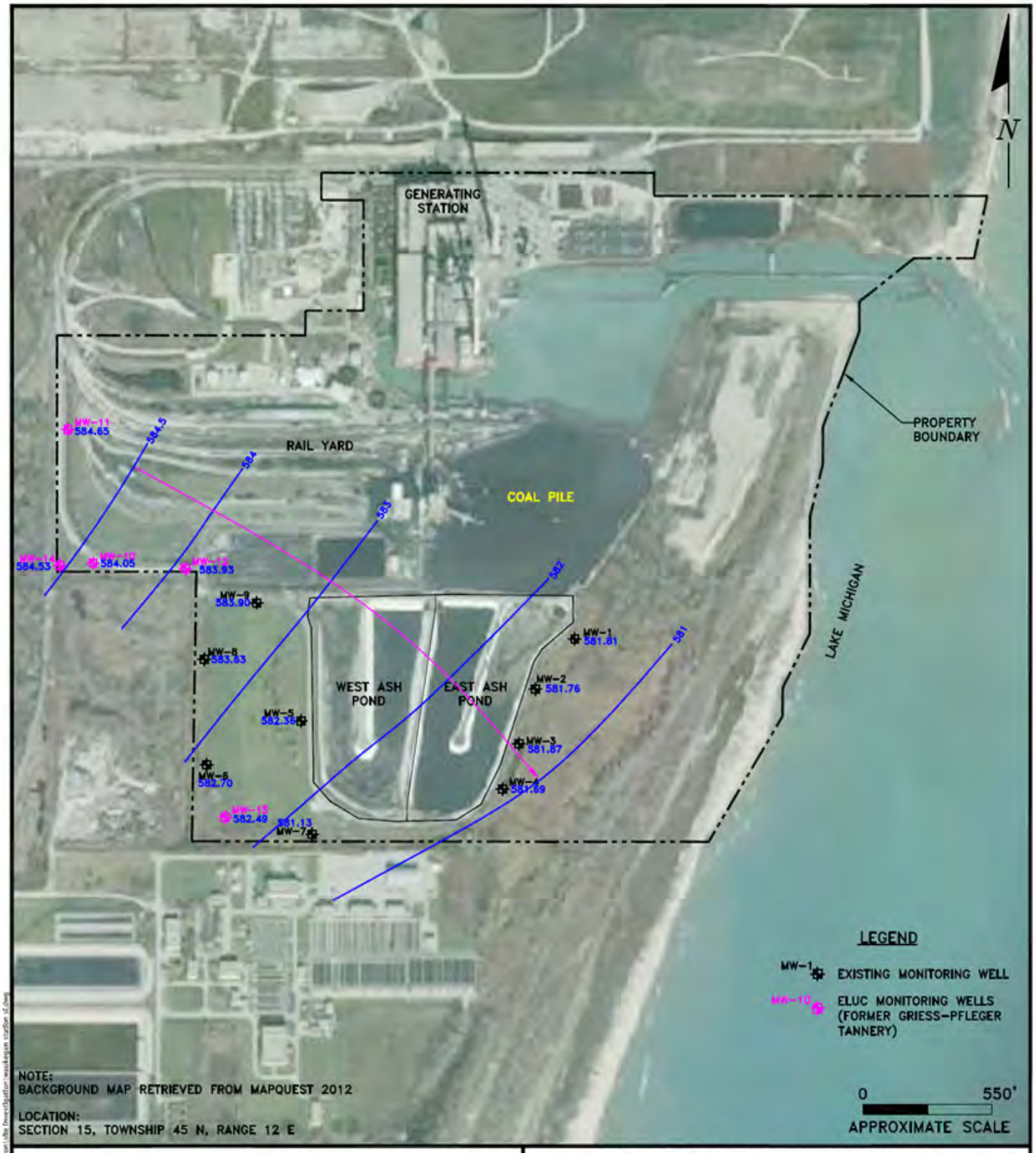
KPRG and Associates, Inc.

CCR GROUNDWATER CONTOUR–2Q2016

WAUKEGAN STATION
WAUKEGAN, ILLINOIS

Scale: 1" = 350' | Date: July 12, 2016

KPRG Project No. 12313.2 | FIGURE 2



ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 2B 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

GROUNDWATER CONTOURS MAP AUGUST 2014

WAUKEGAN STATION
WAUKEGAN, ILLINOIS

Scale: 1" = 550' | Date: October 14, 2014

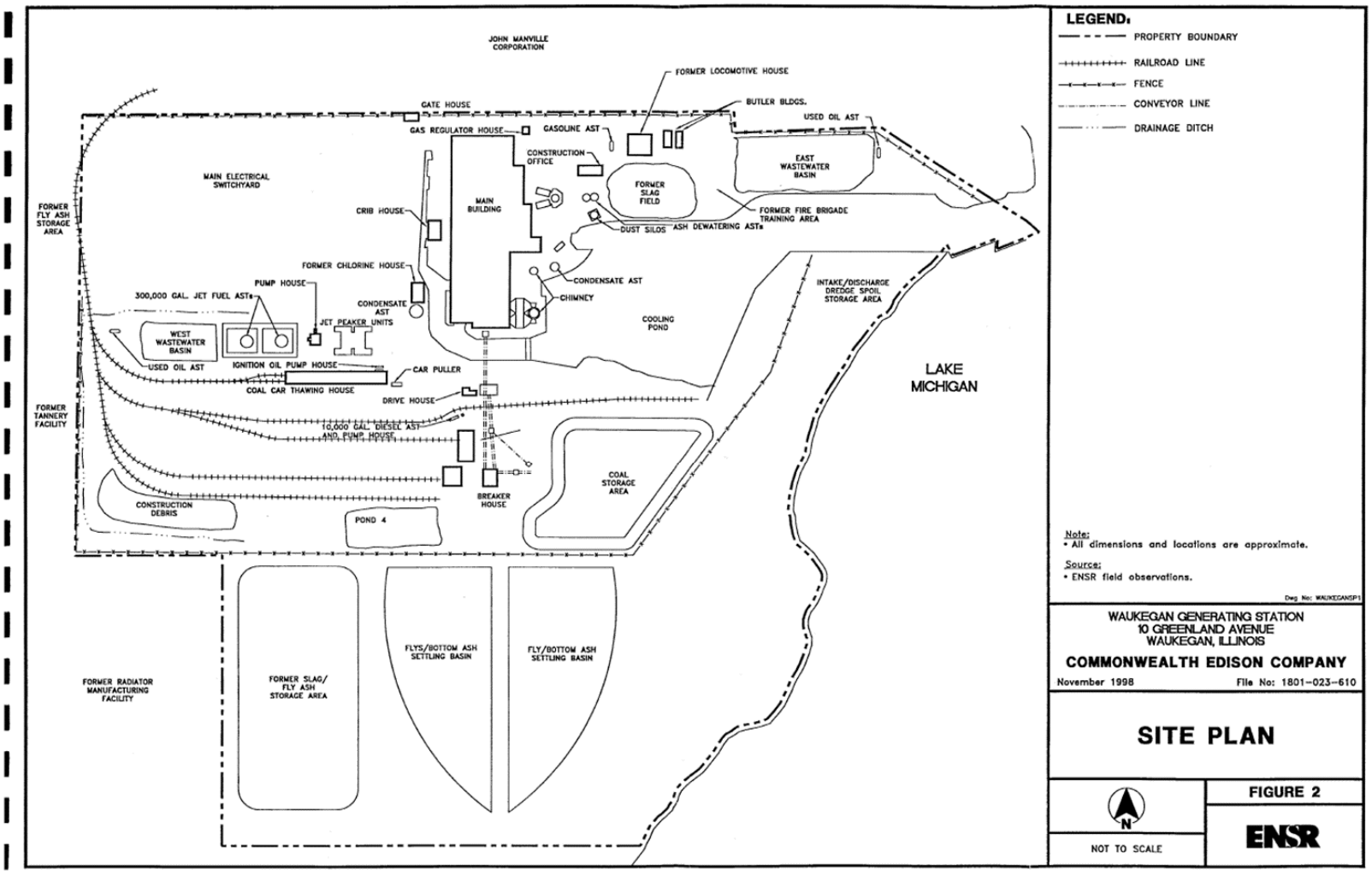
KPRG Project No. 20013 | FIGURE X

MW313-15_43754

Waukegan

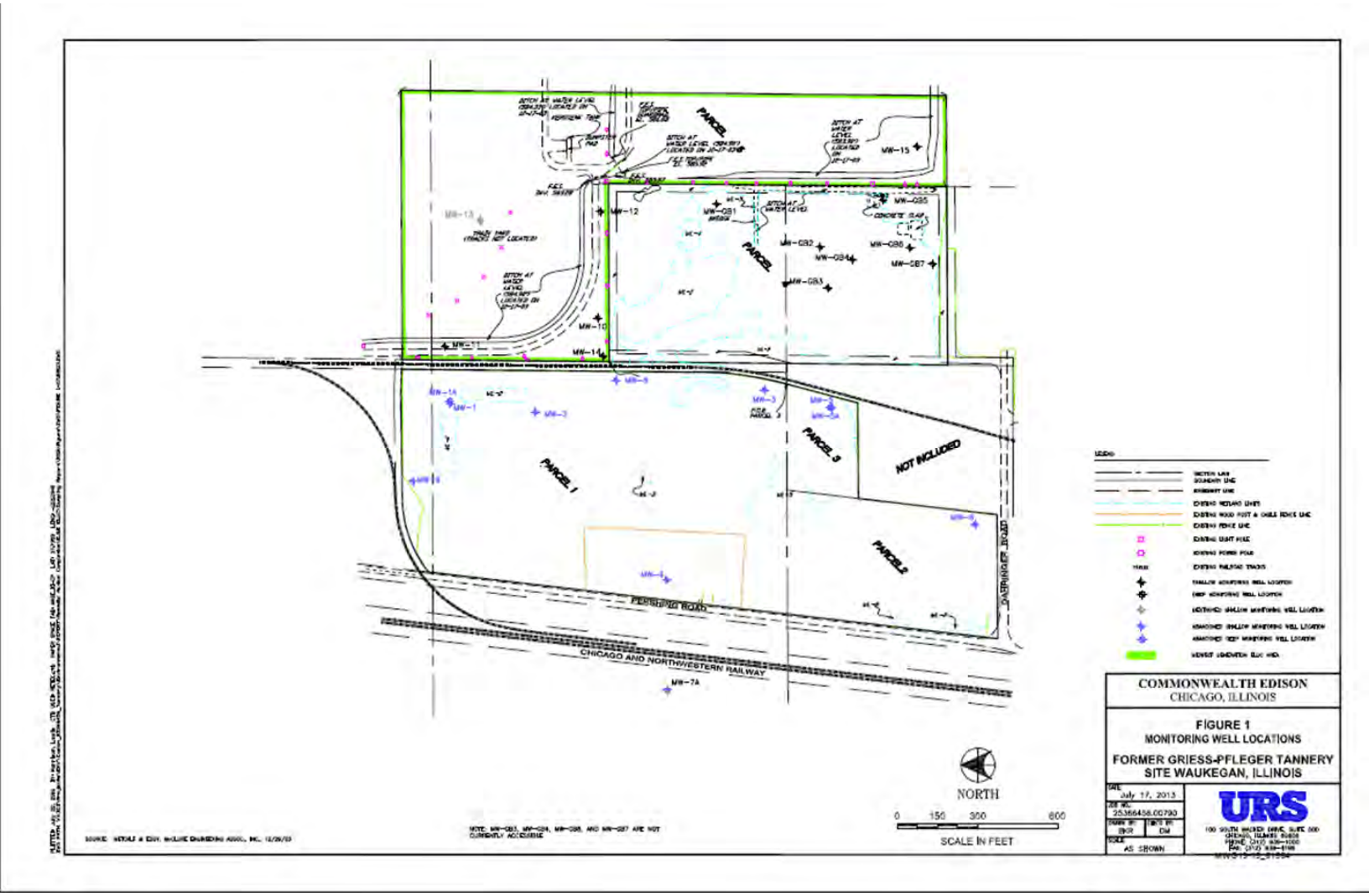

Waukegan Generation Station
MW-11
MW-10
MW-12
MW-14
MW-9
MW-8
MW-5
MW-6
MW-15
MW-7
MW-16
MW-1
MW-2
MW-3
MW-4
Former Ash / Slag Storage Area
East and West Ash Ponds
Former Griess-Pfleger Tannery Site
Former General Boiler Property
Waukegan Wastewater Treatment Plant
LEGEND:
MWG/NRG Quarterly Report Wells
Griess-Pfleger ELUC Wells
2452 ft
Image USDA Farm Service Agency

Waukegan



MWG13-15_45814

Waukegan


PARCEL
PARCEL
PARCEL
PARCEL 1
PARCEL 2
PARCEL 3
NOT INCLUDED
PERSHING ROAD
CHICAGO AND NORTHWESTERN RAILWAY
DAVIS STREET
NORTH
0 150 300 600
SCALE IN FEET
COMMONWEALTH EDISON
CHICAGO, ILLINOIS
FIGURE 1
MONITORING WELL LOCATIONS
FORMER GRIESS-PFLEGER TANNERY
SITE WAUKEGAN, ILLINOIS
July 17, 2013
25366456.00790
AS SHOWN
URS

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
10/25/2010	2.60	350.00	10/25/2010	2.20	230.00
3/24/2011	2.00	230.00	3/24/2011	2.20	160.00
6/13/2011	2.60	260.00	6/13/2011	2.00	150.00
9/13/2011	2.50	280.00	9/13/2011	1.70	200.00
12/6/2011	2.80	330.00	12/6/2011	1.90	180.00
3/14/2012	2.50	390.00	3/14/2012	2.00	200.00
6/18/2012	2.00	300.00	6/18/2012	2.60	210.00
9/28/2012	1.90	240.00	9/28/2012	2.10	270.00
12/19/2012	1.90	200.00	12/19/2012	1.90	210.00
3/7/2013	2.20	250.00	3/7/2013	2.20	230.00
6/7/13	2.20	260.00	6/7/2013	1.90	220.00
7/25/2013	2.30	300.00	7/25/2013	2.10	260.00
11/4/2013	3.10	260.00	11/4/2013	2.20	290.00
3/10/2014	1.90	130.00	3/10/2014	2.80	370.00
5/16/2014	2.00	170.00	5/15/2014	2.60	280.00
8/21/2014	2.00	130.00	8/21/2014	3.00	210.00
11/6/2014	2.20	270.00	11/6/2014	3.00	350.00
2/17/2015	1.70	200.00	2/17/2015	3.20	150.00
4/21/2015	1.50	250.00	4/21/2015	2.90	190.00
8/12/2015	1.20	260.00	8/12/2015	2.50	230.00
11/2/2015	1.70	320.00	11/2/2015	2.50	230.00
3/1/2016	1.90	260.00	3/1/2016	3.60	220.00
5/4/2016	2.10	210.00	5/4/2016	3.30	160.00
8/23/2016	2.10	230.00	8/23/2016	3.00	220.00
12/5/2016	1.90	200.00	12/5/2016	3.00	160.00
2/21/2017	2.10	260.00	2/21/2017	2.90	210.00
5/15/2017	2.30	330.00	5/15/2017	3.40	350.00
3/1/2016	1.90	270.00	3/1/2016	4.10	220.00
5/4/2016	2.00	210.00	5/4/2016	3.30	180.00
8/23/2016	2.00	240.00	8/23/2016	3.10	250.00
12/5/2016	2.20	180.00	12/5/2016	3.10	160.00
2/21/2017	2.20	250.00	2/21/2017	3.30	190.00
5/15/2017	2.10	330.00	5/15/2017	3.60	320.00
Median	2.10	260.00		2.50	220.00
Mean	2.12	254.44		2.54	227.41
Std. Dev	0.40	61.66		0.53	59.52
Maximum	3.10	390.00		3.60	370.00
Minimum	1.20	130.00		1.70	150.00
N	27	27		27	27

NOTE: All concentrations are dissolved unless otherwise noted.

Means Not Detected and replaced with 1/2 Detection Limit.

Means the concentration is total recoverable. NOT included in the Statistics.

WAUKEGAN - MEDIAN BORON AND SULFATE CONCENTRATIONS COMPARED TO BACKGROUND

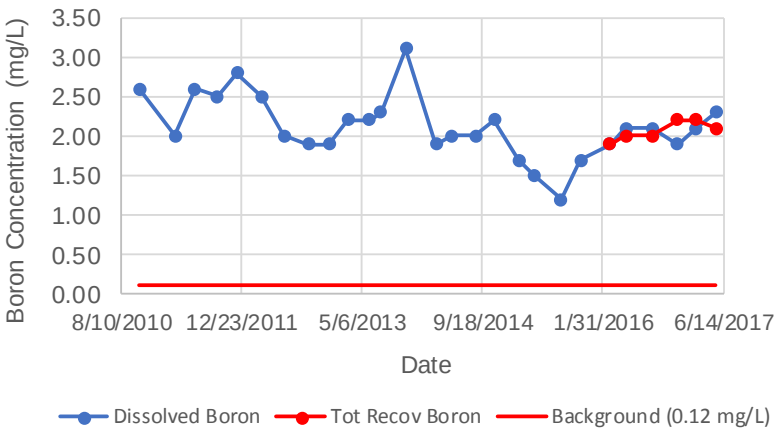
Well	Boron Concentration (mg/L)		Sulfate Concentration (mg/L)	
	Median	Background	Median	Background
MW-1	2.10	0.12	260	54
MW-2	2.50	0.12	220	54
MW-3	1.90	0.12	170	54
MW-4	2.10	0.12	210	54
MW-5	32.00	0.12	840	54
MW-6	2.80	0.12	190	54
MW-7	39.00	0.12	690	54
MW-8	24.00	0.12	370	54
MW-9	13.00	0.12	360	54
MW-16	3.70	0.12	595	54
ELUC MW-10	0.98	0.12	155	54
ELUC MW-11	3.65	0.12	150	54
ELUC MW-12	1.95	0.12	190	54
ELUC MW-14	1.00	0.12	150	54
ELUC MW-15	5.10	0.12	250	54

NOTE: All concentrations are dissolved unless otherwise noted.

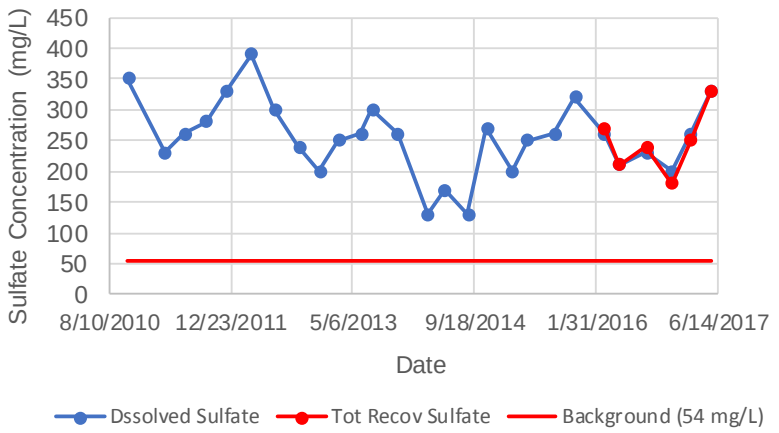
Means there are no dissolved concentrations for these wells. These values are for total recoverable concentrations for the dates shown in the Data tab.

Waukegan

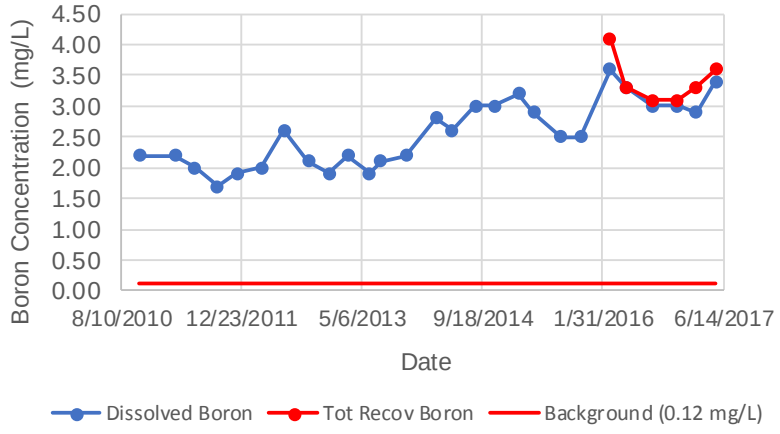
MW-1



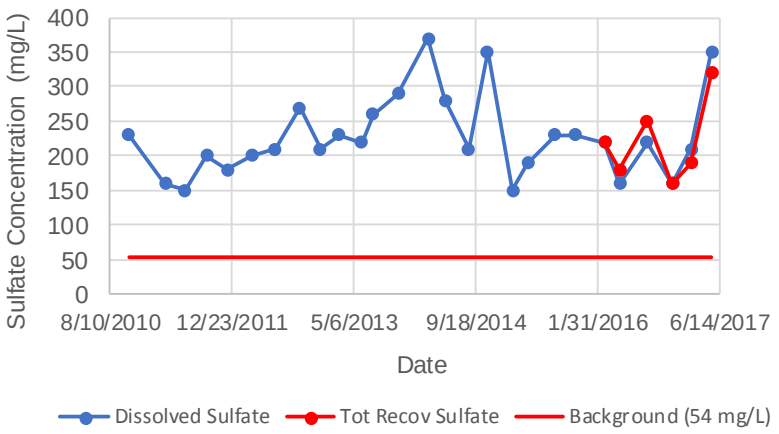
MW-1



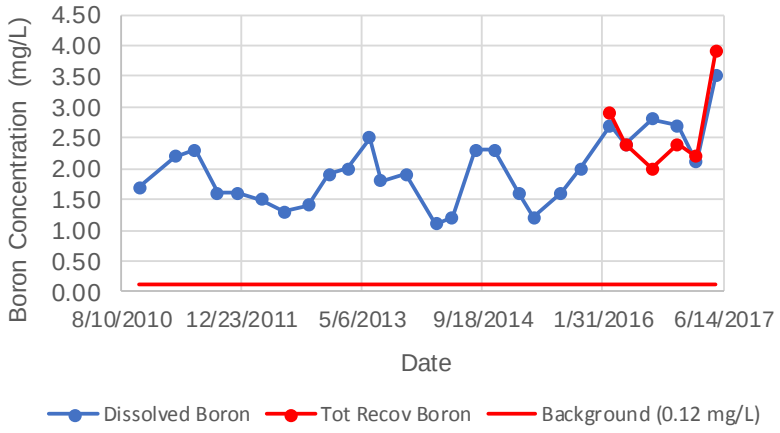
MW-2



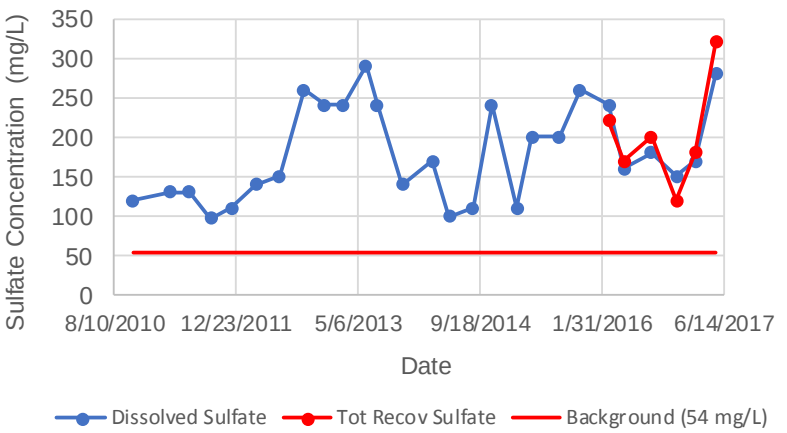
MW-2



MW-3

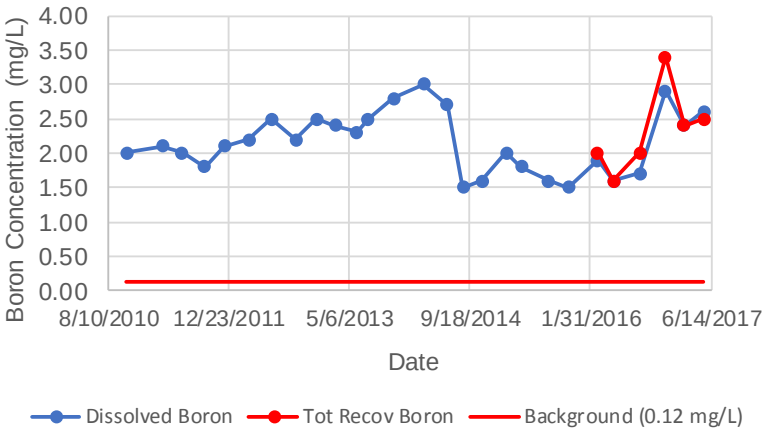


MW-3

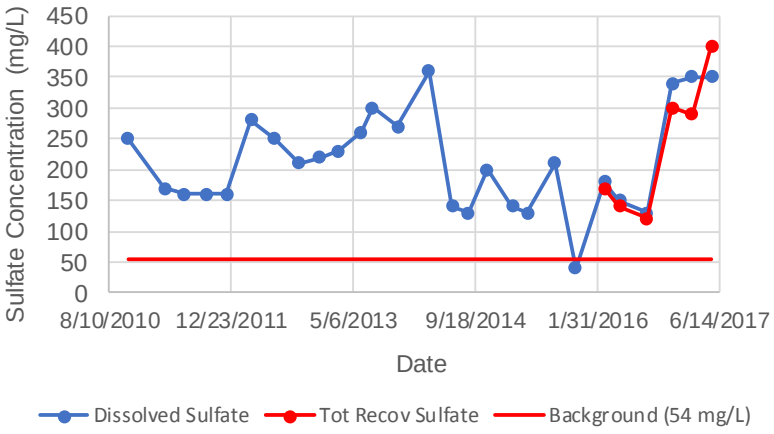


Waukegan

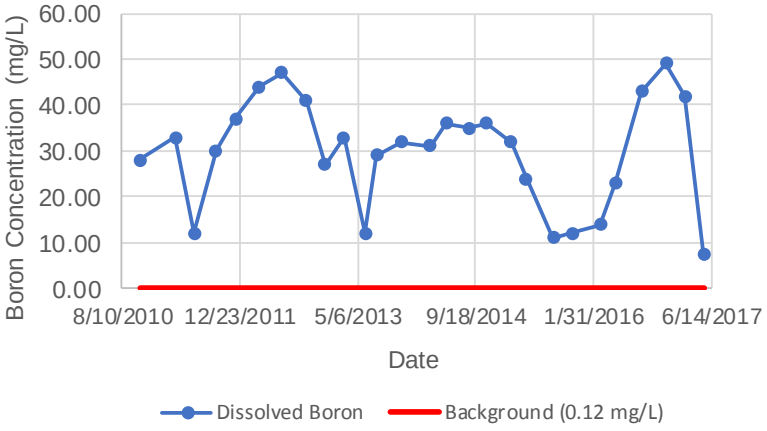
MW-4



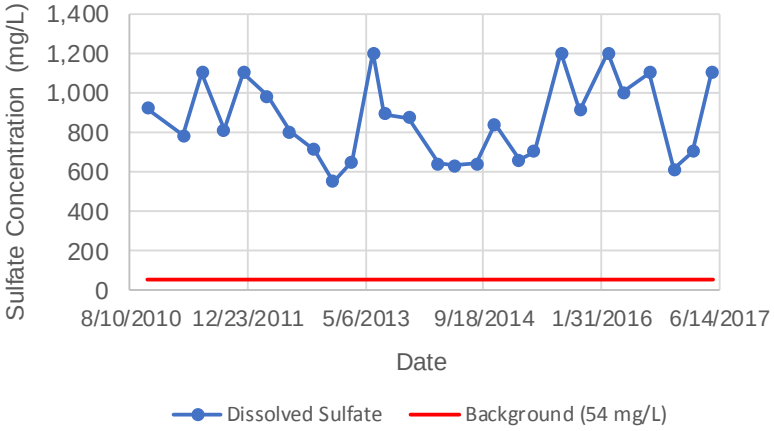
MW-4



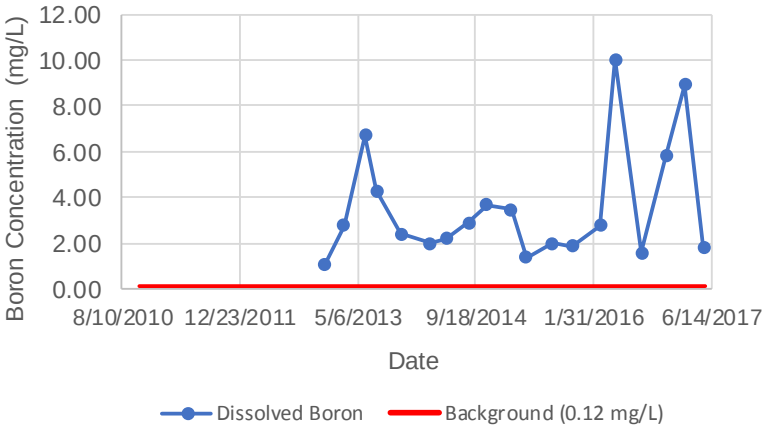
MW-5



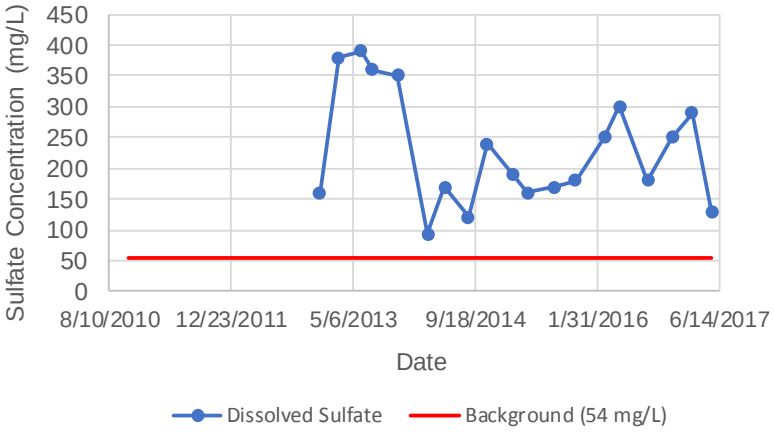
MW-5



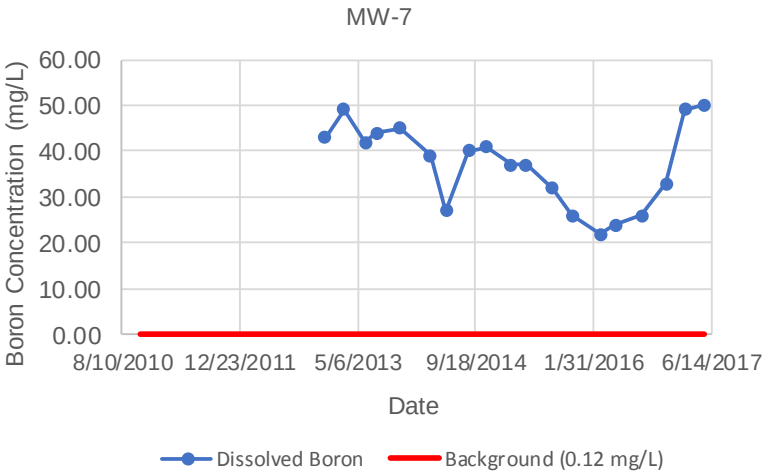
MW-6

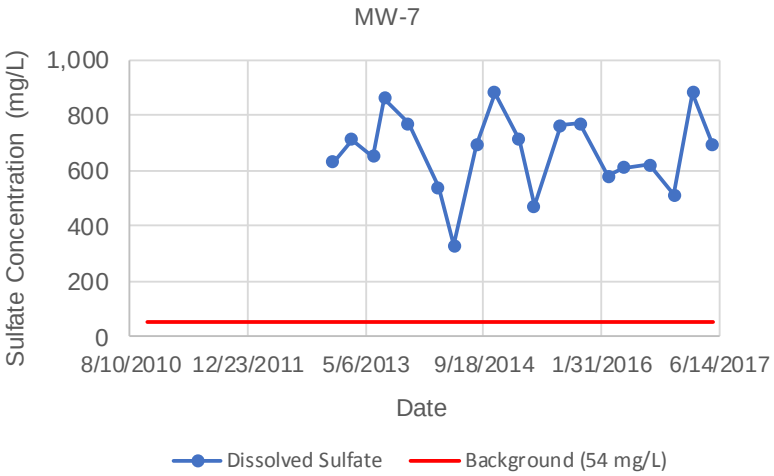


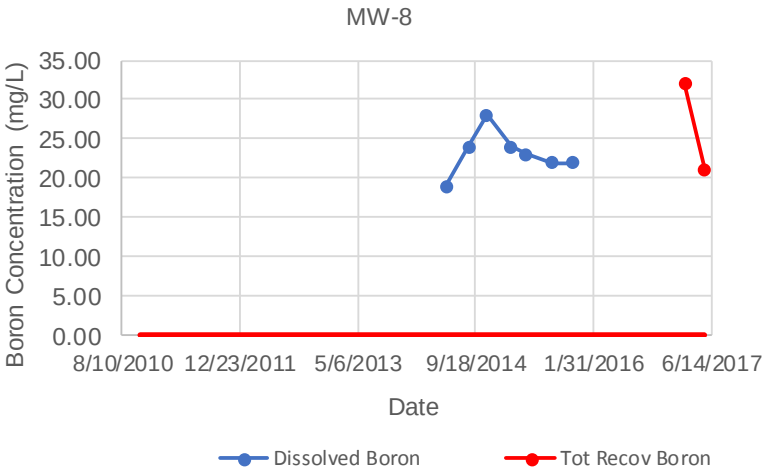
MW-6

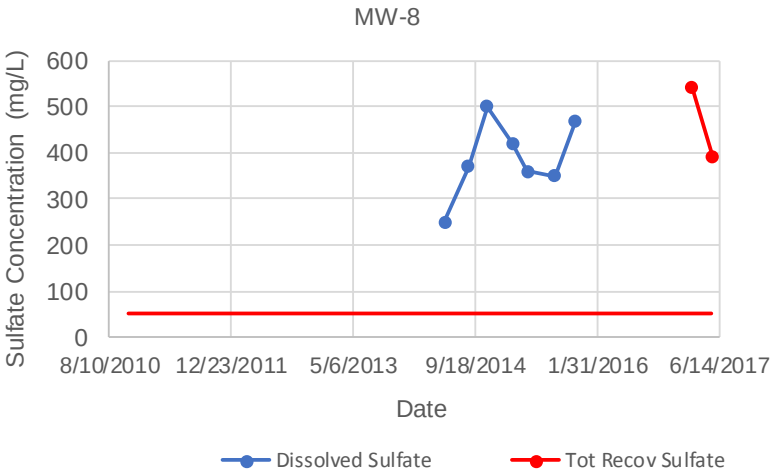


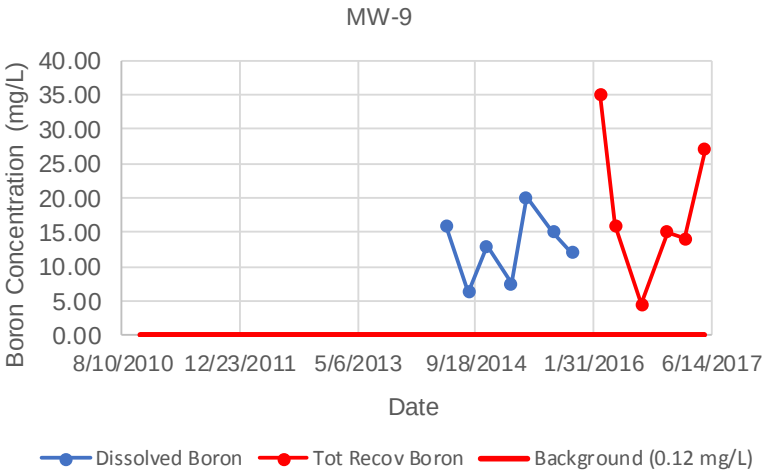
Waukegan

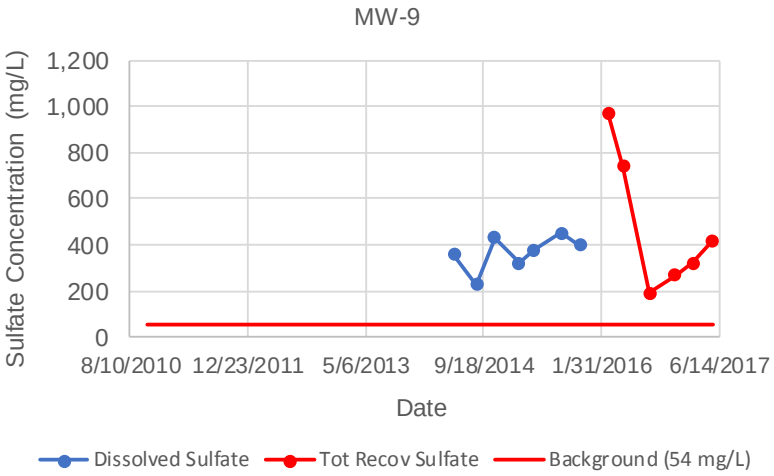

MW-7
Boron Concentration (mg/L)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)


MW-7
Sulfate Concentration (mg/L)
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)

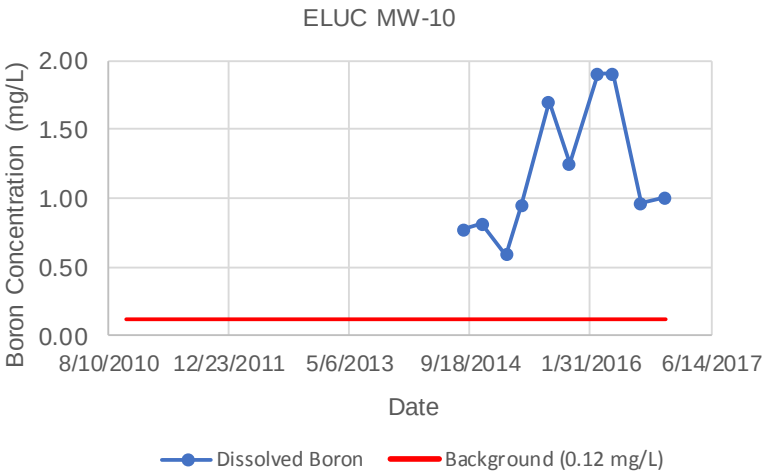

MW-8
Boron Concentration (mg/L)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron

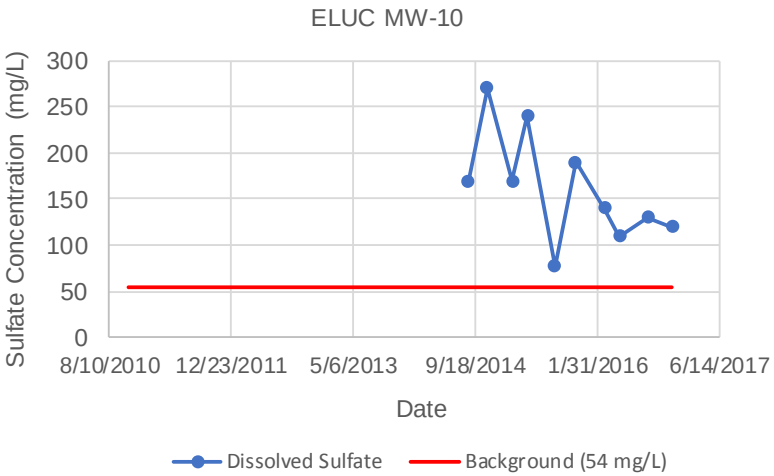

MW-8
Sulfate Concentration (mg/L)
600
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate

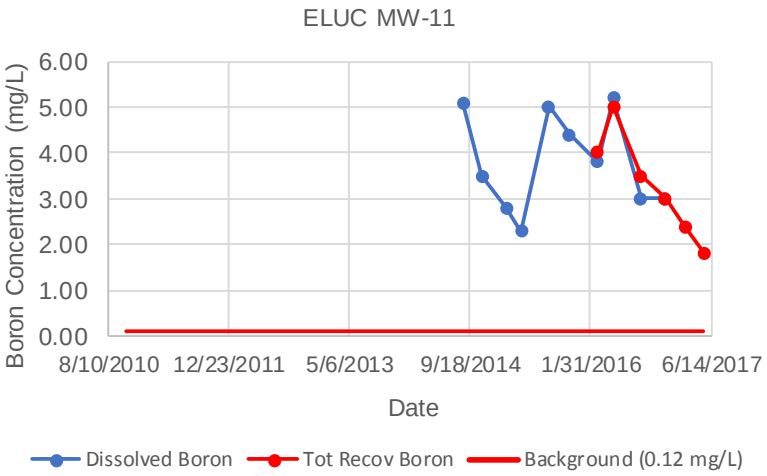

MW-9
Boron Concentration (mg/L)
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.12 mg/L)

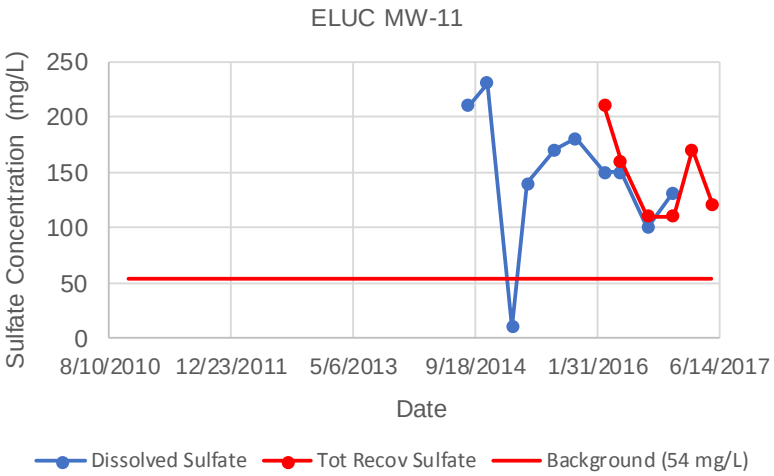

MW-9
Sulfate Concentration (mg/L)
1,200
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (54 mg/L)

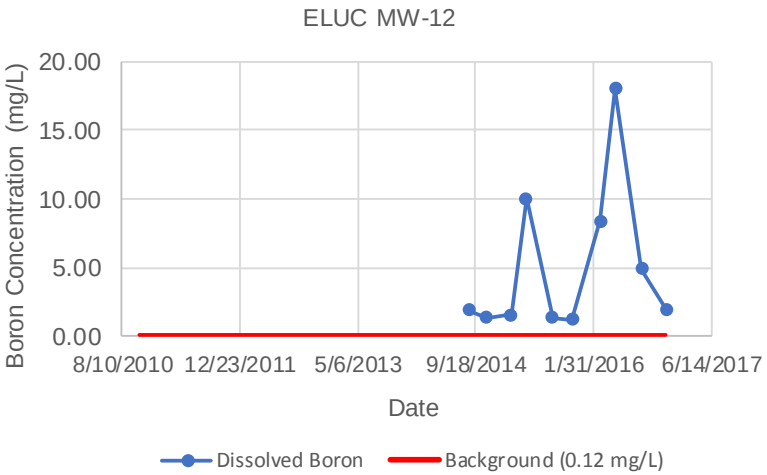
Waukegan

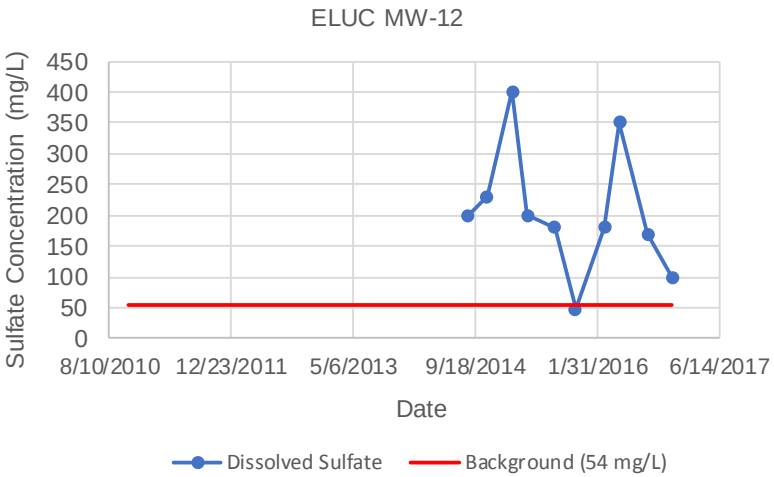

ELUC MW-10
Boron Concentration (mg/L)
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)


ELUC MW-10
Sulfate Concentration (mg/L)
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)

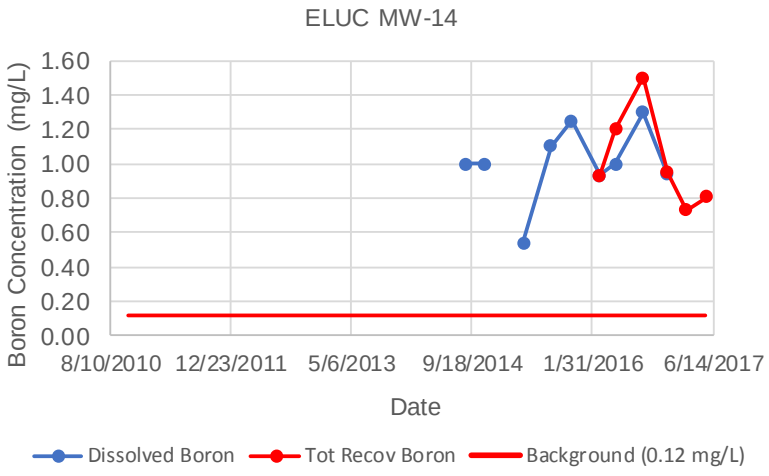

ELUC MW-11
Boron Concentration (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.12 mg/L)

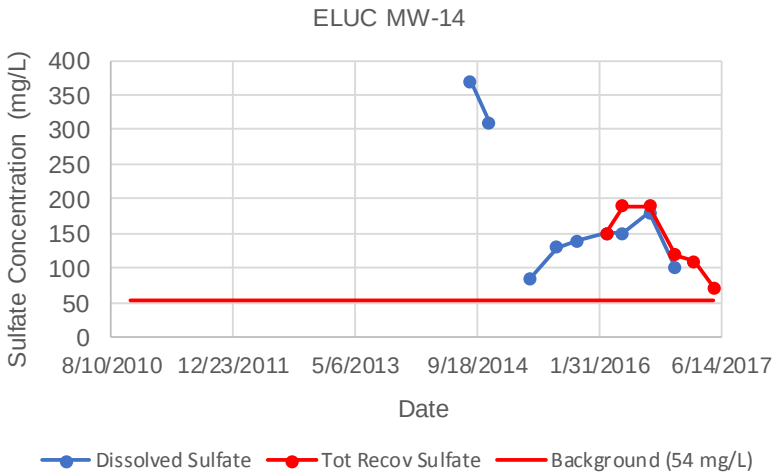

ELUC MW-11
Sulfate Concentration (mg/L)
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (54 mg/L)

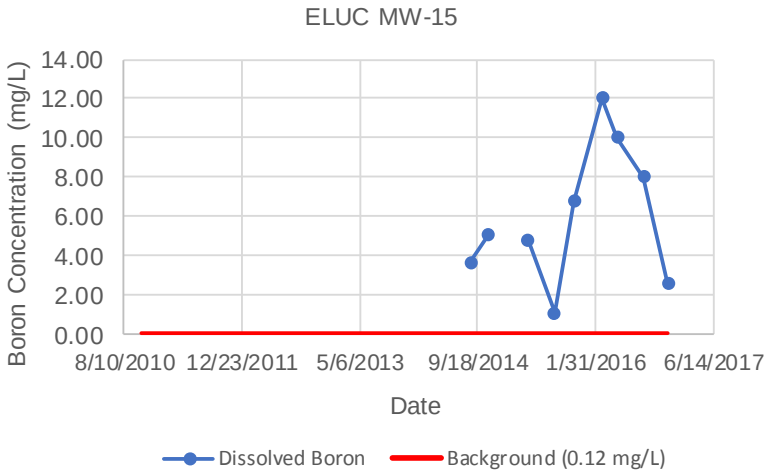

ELUC MW-12
Boron Concentration (mg/L)
20.00
15.00
10.00
5.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)

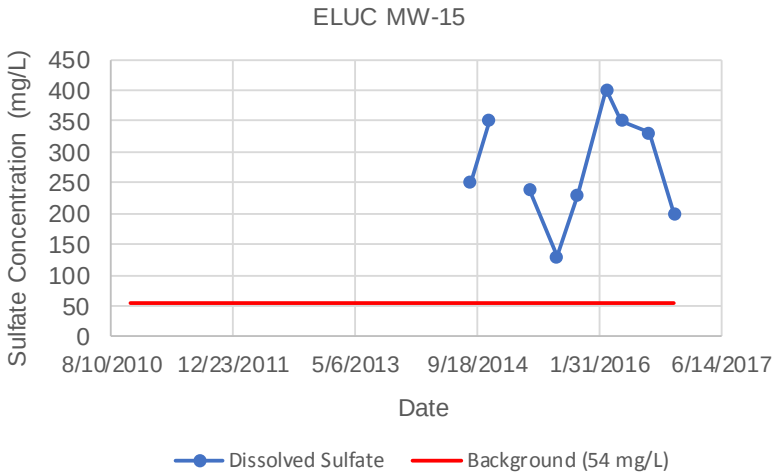

ELUC MW-12
Sulfate Concentration (mg/L)
450
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)

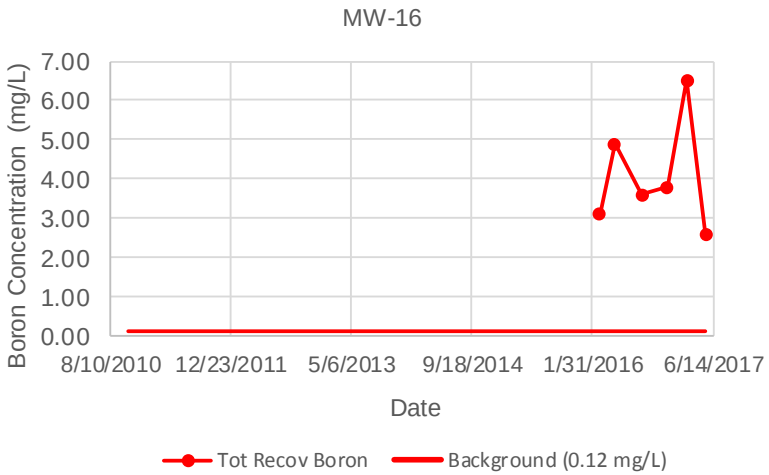
Waukegan

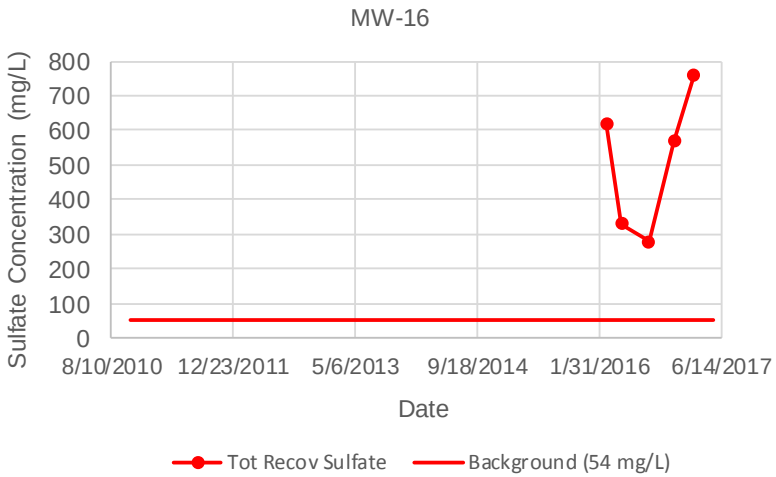

ELUC MW-14
Boron Concentration (mg/L)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.12 mg/L)


ELUC MW-14
Sulfate Concentration (mg/L)
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (54 mg/L)


ELUC MW-15
Boron Concentration (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.12 mg/L)


ELUC MW-15
Sulfate Concentration (mg/L)
450
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (54 mg/L)


MW-16
Boron Concentration (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.12 mg/L)


MW-16
Sulfate Concentration (mg/L)
800
700
600
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (54 mg/L)

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
10/25/2010	2.60	350.00	10/25/2010	2.20	230.00
3/24/2011	2.00	230.00	3/24/2011	2.20	160.00
6/13/2011	2.60	260.00	6/13/2011	2.00	150.00
9/13/2011	2.50	280.00	9/13/2011	1.70	200.00
12/6/2011	2.80	330.00	12/6/2011	1.90	180.00
3/14/2012	2.50	390.00	3/14/2012	2.00	200.00
6/18/2012	2.00	300.00	6/18/2012	2.60	210.00
9/28/2012	1.90	240.00	9/28/2012	2.10	270.00
12/19/2012	1.90	200.00	12/19/2012	1.90	210.00
3/7/2013	2.20	250.00	3/7/2013	2.20	230.00
6/7/13	2.20	260.00	6/7/2013	1.90	220.00
7/25/2013	2.30	300.00	7/25/2013	2.10	260.00
11/4/2013	3.10	260.00	11/4/2013	2.20	290.00
3/10/2014	1.90	130.00	3/10/2014	2.80	370.00
5/16/2014	2.00	170.00	5/15/2014	2.60	280.00
8/21/2014	2.00	130.00	8/21/2014	3.00	210.00
11/6/2014	2.20	270.00	11/6/2014	3.00	350.00
2/17/2015	1.70	200.00	2/17/2015	3.20	150.00
4/21/2015	1.50	250.00	4/21/2015	2.90	190.00
8/12/2015	1.20	260.00	8/12/2015	2.50	230.00
11/2/2015	1.70	320.00	11/2/2015	2.50	230.00
3/1/2016	1.90	260.00	3/1/2016	3.60	220.00
5/4/2016	2.10	210.00	5/4/2016	3.30	160.00
8/23/2016	2.10	230.00	8/23/2016	3.00	220.00
12/5/2016	1.90	200.00	12/5/2016	3.00	160.00
2/21/2017	2.10	260.00	2/21/2017	2.90	210.00
5/15/2017	2.30	330.00	5/15/2017	3.40	350.00
3/1/2016	1.90	270.00	3/1/2016	4.10	220.00
5/4/2016	2.00	210.00	5/4/2016	3.30	180.00
8/23/2016	2.00	240.00	8/23/2016	3.10	250.00
12/5/2016	2.20	180.00	12/5/2016	3.10	160.00
2/21/2017	2.20	250.00	2/21/2017	3.30	190.00
5/15/2017	2.10	330.00	5/15/2017	3.60	320.00
Median	2.10	260.00		2.50	220.00
Mean	2.12	254.44		2.54	227.41
Std. Dev	0.40	61.66		0.53	59.52
Maximum	3.10	390.00		3.60	370.00
Minimum	1.20	130.00		1.70	150.00
N	27	27		27	27

NOTE: All concentrations are dissolved unless otherwise noted.

Means Not Detected and replaced with 1/2 Detection Limit.

Means the concentration is total recoverable. NOT included in the Statistics.

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-3			MW-4		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
10/25/2010	1.70	120.00	10/25/2010	2.00	250.00
3/24/2011	2.20	130.00	3/24/2011	2.10	170.00
6/13/2011	2.30	130.00	6/13/2011	2.00	160.00
9/13/2011	1.60	97.00	9/13/2011	1.80	160.00
12/6/2011	1.60	110.00	12/6/2011	2.10	160.00
3/14/2012	1.50	140.00	3/14/2012	2.20	280.00
6/18/2012	1.30	150.00	6/18/2012	2.50	250.00
9/28/2012	1.40	260.00	9/28/2012	2.20	210.00
12/19/2012	1.90	240.00	12/19/2012	2.50	220.00
3/7/2013	2.00	240.00	3/7/2013	2.40	230.00
6/7/2013	2.50	290.00	6/6/2013	2.30	260.00
7/25/2013	1.80	240.00	7/25/2013	2.50	300.00
11/4/2013	1.90	140.00	11/4/2013	2.80	270.00
3/10/2014	1.10	170.00	3/11/2014	3.00	360.00
5/15/2014	1.20	100.00	6/16/2014	2.70	140.00
8/21/2014	2.30	110.00	8/21/2014	1.50	130.00
11/6/2014	2.30	240.00	11/5/2014	1.60	200.00
2/17/2015	1.60	110.00	2/17/2015	2.00	140.00
4/21/2015	1.20	200.00	4/21/2015	1.80	130.00
8/12/2015	1.60	200.00	8/12/2015	1.60	210.00
11/2/2015	2.00	260.00	11/2/2015	1.50	40.00
3/1/2016	2.70	240.00	3/1/2016	1.90	180.00
5/4/2016	2.40	160.00	5/4/2016	1.60	150.00
8/23/2016	2.80	180.00	8/23/2016	1.70	130.00
12/5/2016	2.70	150.00	12/5/2016	2.90	340.00
2/21/2017	2.10	170.00	2/22/2017	2.40	350.00
5/16/2017	3.50	280.00	5/16/2017	2.60	350.00
3/1/2016	2.90	220.00	3/1/2016	2.00	170.00
5/4/2016	2.40	170.00	5/4/2016	1.60	140.00
8/24/2016	2.00	200.00	8/24/2016	2.00	120.00
12/5/2016	2.40	120.00	12/5/2016	3.40	300.00
2/21/2017	2.20	180.00	2/22/2017	2.40	290.00
5/16/2017	3.90	320.00	5/16/2017	2.50	400.00
	1.90	170.00		2.10	210.00
	1.97	179.89		2.16	213.70
	0.57	60.73		0.44	81.48
	3.50	290.00		3.00	360.00
	1.10	97.00		1.50	40.00
	27	27		27	27

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-5			MW-6		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
10/25/2010	28.00	920.00	12/19/2012	1.10	160.00
3/24/2011	33.00	780.00	3/7/2013	2.80	380.00
6/13/2011	12.00	1100.00	6/6/2013	6.70	390.00
9/13/2011	30.00	810.00	7/25/2013	4.30	360.00
12/6/2011	37.00	1100.00	11/5/2013	2.40	350.00
3/14/2012	44.00	980.00	3/10/2014	2.00	93.00
6/18/2012	47.00	800.00	5/15/2014	2.20	170.00
9/28/2012	41.00	710.00	8/21/2014	2.90	120.00
12/19/2012	27.00	550.00	11/5/2014	3.70	240.00
3/7/2013	33.00	650.00	2/18/2015	3.50	190.00
6/6/2013	12.00	1200.00	4/20/2015	1.40	160.00
7/25/2013	29.00	890.00	8/12/2015	2.00	170.00
11/5/2013	32.00	870.00	11/3/2015	1.90	180.00
3/11/2014	31.00	640.00	2/29/2016	2.80	250.00
5/16/2014	36.00	630.00	5/3/2016	10.00	300.00
8/21/2014	35.00	640.00	8/25/2016	1.60	180.00
11/5/2014	36.00	840.00	12/6/2016	5.80	250.00
2/17/2015	32.00	660.00	2/22/2017	8.90	290.00
4/20/2015	24.00	700.00	5/15/2017	1.80	130.00
8/13/2015	11.00	1200.00			
11/3/2015	12.00	910.00			
3/2/2016	14.00	1200.00			
5/2/2016	23.00	1000.00			
8/24/2016	43.00	1100.00			
12/7/2016	49.00	610.00			
2/22/2017	42.00	700.00			
5/15/2017	7.70	1100.00			
	32.00	840.00		2.80	190.00
	29.66	862.59		3.57	229.63
	11.82	205.42		2.53	92.28
	49.00	1200.00		10.00	390.00
	7.70	550.00		1.10	93.00
	27	27		19	19

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-7			MW-8		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/19/2012	43.00	630.00	5/15/2014	19.00	250.00
3/7/2013	49.00	710.00	8/22/2014	24.00	370.00
6/6/2013	42.00	650.00	11/5/2014	28.00	500.00
7/25/2013	44.00	860.00	2/18/2015	24.00	420.00
11/4/2013	45.00	770.00	4/21/2015	23.00	360.00
3/10/2014	39.00	540.00	8/12/2015	22.00	350.00
5/15/2014	27.00	330.00	11/4/2015	22.00	470.00
8/21/2014	40.00	690.00			
11/5/2014	41.00	880.00			
2/17/2015	37.00	710.00			
4/20/2015	37.00	470.00			
8/12/2015	32.00	760.00			
11/3/2015	26.00	770.00			
2/29/2016	22.00	580.00			
5/2/2016	24.00	610.00			
8/24/2016	26.00	620.00			
12/7/2016	33.00	510.00			
2/22/2017	49.00	880.00			
5/16/2017	50.00	690.00			
			2/23/2017	32.00	540.00
			5/17/2017	21.00	390.00
	39.00	690.00		24.00	370.00
	37.16	666.32		23.60	380.00
	8.93	143.46		3.21	91.38
	50.00	880.00		28.00	500.00
	22.00	330.00		19.00	250.00
	19	19		5	5

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-9			MW-16		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
5/15/2014	16.00	360.00			
8/22/2014	6.30	230.00			
11/5/2014	13.00	430.00			
2/18/2015	7.50	320.00			
4/21/2015	20.00	380.00			
8/13/2015	15.00	450.00			
11/4/2015	12.00	400.00			
3/2/2016	35.00	970.00	3/2/2016	3.10	990.00
5/3/2016	16.00	740.00	5/2/2016	4.90	620.00
8/25/2016	4.50	190.00	8/24/2016	3.60	330.00
12/8/2016	15.00	270.00	12/5/2016	3.80	280.00
2/23/2017	14.00	320.00	2/24/2017	6.50	570.00
5/16/2017	27.00	420.00	5/16/2017	2.60	760.00
	13.00	360.00		3.70	595.00
	12.56	344.00		4.08	591.67
	5.75	75.03		1.41	266.04
	20.00	430.00		6.50	990.00
	6.30	230.00		2.60	280.00
	5	5		6	6
Reg. Backgnd. Median	0.12	54			

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

ELUC MW-10			ELUC MW-11		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
8/22/2014	0.77	170.00	8/22/2014	5.10	210.00
11/6/2014	0.81	270.00	11/6/2014	3.50	230.00
2/18/2015	0.59	170.00	2/18/2015	2.80	10.00
4/20/2015	0.94	240.00	4/20/2015	2.30	140.00
8/11/2015	1.70	77.00	8/11/2015	5.00	170.00
11/4/2015	1.25	190.00	11/5/2015	4.40	180.00
3/2/2016	1.90	140.00	3/2/2016	3.80	150.00
5/3/2016	1.90	110.00	5/5/2016	5.20	150.00
8/26/2016	0.96	130.00	8/26/2016	3.00	100.00
12/6/2016	1.00	120.00	12/6/2016	3.00	130.00
			3/2/2016	4.00	210.00
			5/5/2016	5.00	160.00
			8/26/2016	3.50	110.00
			12/7/2016	3.00	110.00
			2/24/2017	2.40	170.00
			5/18/2017	1.80	120.00
	0.98	155.00		3.65	150.00
	1.18	161.70		3.81	147.00
	0.48	59.50		1.06	61.29
	1.90	270.00		5.20	230.00
	0.59	77.00		2.30	10.00
	10	10		10	10

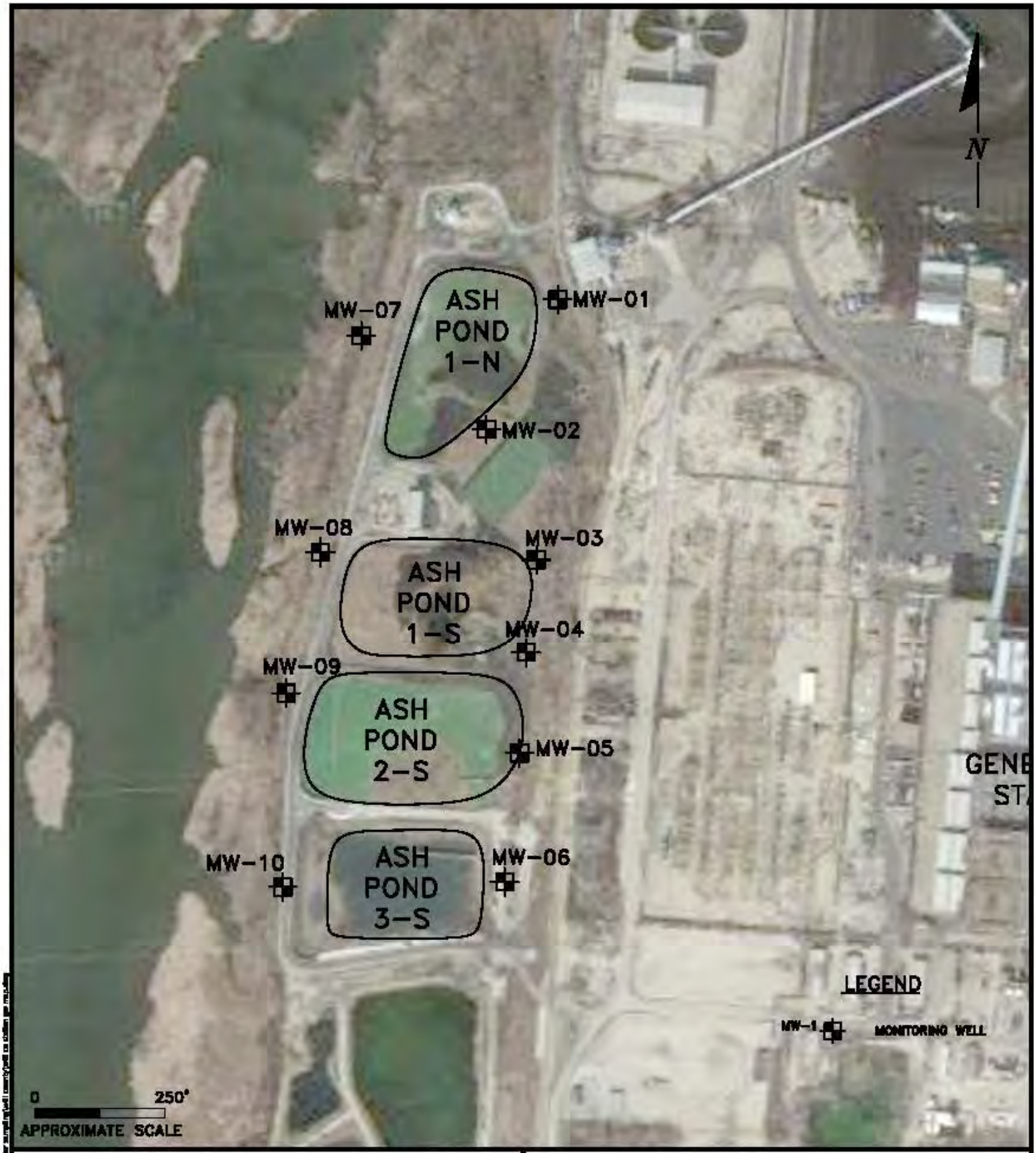
WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

ELUC MW-12			ELUC MW-14		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
8/22/2014	1.90	200.00	8/22/2014	1.00	370.00
11/6/2014	1.40	230.00	11/6/2014	1.00	310.00
2/18/2015	1.60	400.00	2/18/2015		
4/20/2015	10.00	200.00	4/20/2015	0.54	84.00
8/11/2015	1.40	180.00	8/11/2015	1.10	130.00
11/4/2015	1.25	47.00	11/5/2015	1.25	140.00
2/29/2016	8.40	180.00	2/29/2016	0.93	150.00
5/4/2016	18.00	350.00	5/5/2016	1.00	150.00
8/25/2016	4.90	170.00	8/26/2016	1.30	180.00
12/6/2016	2.00	100.00	12/7/2016	0.94	100.00
			3/2/2016	0.93	150.00
			5/5/2016	1.20	190.00
			8/26/2016	1.50	190.00
			12/7/2016	0.95	120.00
			2/23/2017	0.73	110.00
			5/18/2017	0.81	70.00
	1.95	190.00		1.00	150.00
	5.09	205.70		1.01	179.33
	5.53	104.45		0.22	96.51
	18.00	400.00		1.30	370.00
	1.25	47.00		0.54	84.00
	10	10		9	9

WAUKEGAN - DATA UTILIZED FOR HEARING CHARTS AND TABLES

	ELUC MW-15	
Date	Boron (mg/L)	Sulfate (mg/L)
8/22/2014	3.70	250.00
11/5/2014	5.10	350.00
2/18/2015		
4/20/2015	4.80	240.00
8/11/2015	1.10	130.00
11/3/2015	6.80	230.00
2/29/2016	12.00	400.00
5/3/2016	10.00	350.00
8/23/2016	8.00	330.00
12/6/2016	2.60	200.00

5.10	250.00
6.01	275.56
3.53	86.91
12.00	400.00
1.10	130.00
9	9



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG

KPRG and Associates, Inc.

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

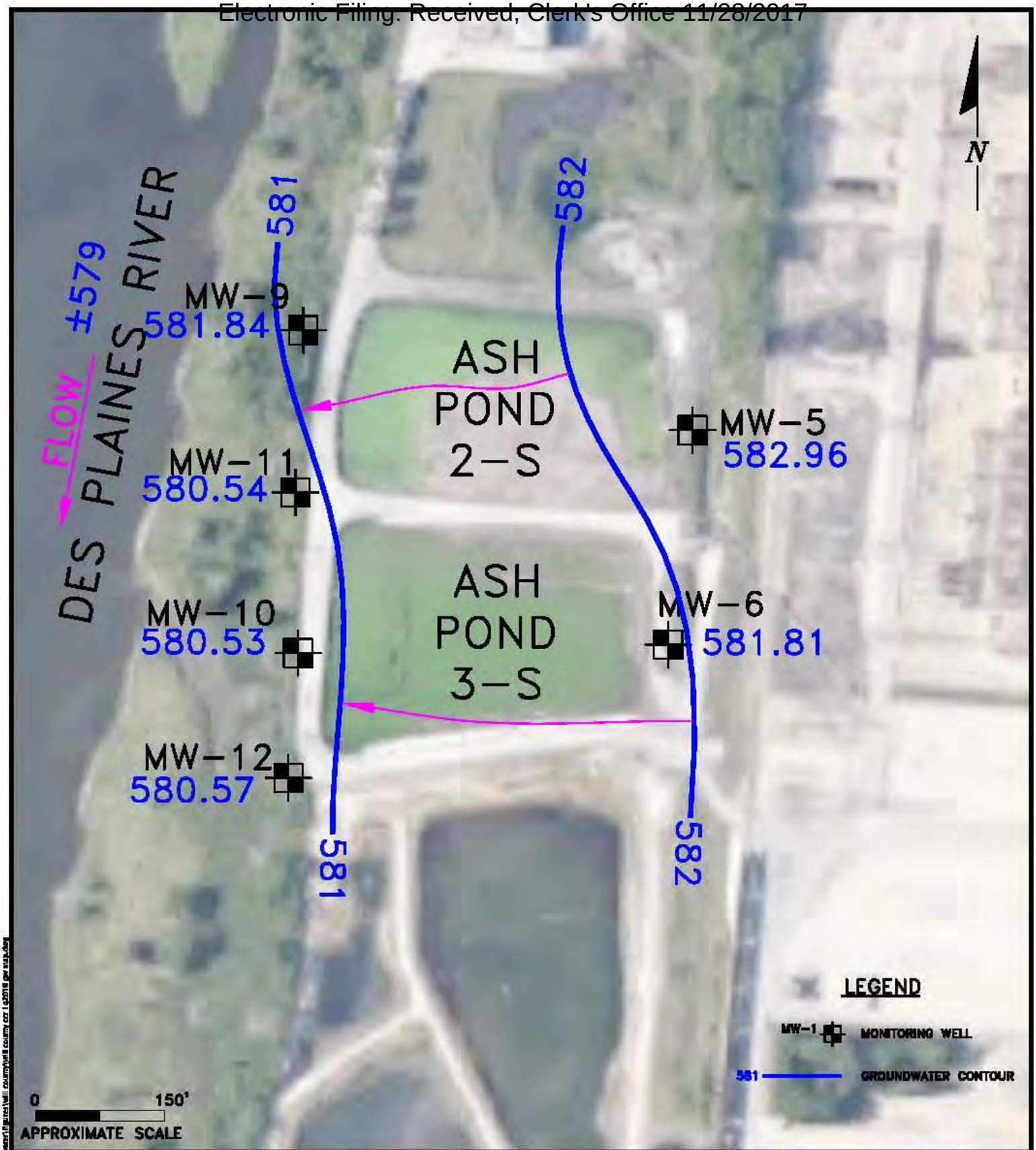
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-525-1300 Facsimile 630-321-1555

SITE MAP

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

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

KPRG Project No. 12313.5 | FIGURE 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

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

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

CCR GROUNDWATER CONTOUR–1Q2016

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

Scale: 1" = 150' | Date: April 19, 2016

KPRG Project No. 12313.3 | FIGURE 2

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	1.80	530.00	12/13/2010	1.80	430.00
3/28/2011	1.60	390.00	3/28/2011	1.70	280.00
6/15/2011	1.80	280.00	6/15/2011	2.30	400.00
9/15/2011	1.70	320.00	9/15/2011	2.30	330.00
12/8/2011	1.60	270.00	12/9/2011	1.70	220.00
3/16/2012	1.50	430.00	3/16/2012	1.70	330.00
6/20/2012	2.10	390.00	6/20/2012	2.00	340.00
9/24/2012	1.90	390.00	9/24/2012	2.20	280.00
12/18/2012	1.90	290.00	12/18/2012	1.80	250.00
3/5/2013	1.90	310.00	3/5/2013	1.70	260.00
5/23/2013	2.40	460.00	5/23/2013	1.90	250.00
8/14/2013	2.30	540.00	8/14/2013	2.20	300.00
10/29/2013	2.60	430.00	10/28/2013	2.40	280.00
2/20/2014	2.40	390.00	2/20/2014	2.40	210.00
5/20/2014	2.50	230.00	5/20/2014	2.80	300.00
8/13/2014	1.20	91.00	8/13/2014	3.00	340.00
10/21/2014	0.96	150.00	10/20/2014	3.60	510.00
2/4/2015	0.50	99.00	2/4/2015	3.80	400.00
4/30/2015	0.81	100.00	5/1/2015	3.80	460.00
7/27/2015	0.91	120.00	7/28/2015	4.00	610.00
11/9/2015	0.73	110.00	11/10/2015	4.40	600.00
2/18/2016	0.80	120.00	2/17/2016	4.40	710.00
5/26/2016	0.74	110.00	5/25/2016	3.90	650.00
8/11/2016	0.87	80.00	8/11/2016	4.10	510.00
10/27/2016	0.76	97.00	10/27/2016	4.90	670.00
2/2/2017	0.69	90.00	2/2/2017	4.30	590.00
5/10/2017	1.10	140.00	5/10/2017	3.60	470.00
Median	1.60	270.00		2.40	340.00
Mean	1.48	257.67		2.91	406.67
Std. Dev	0.66	152.37		1.05	151.58
Maximum	2.60	540.00		4.90	710.00
Minimum	0.50	80.00		1.70	210.00
N	27	27		27.00	27.00

Means Not Detected and replaced with 1/2 Detection Limit.

NOTE: All concentrations are dissolved unless otherwise noted.

Means the concentration is total recoverable. NOT included in the Statistics.

WILL COUNTY - MEDIAN BORON AND SULFATE CONCENTRATIONS COMPARED TO BACKGROUND

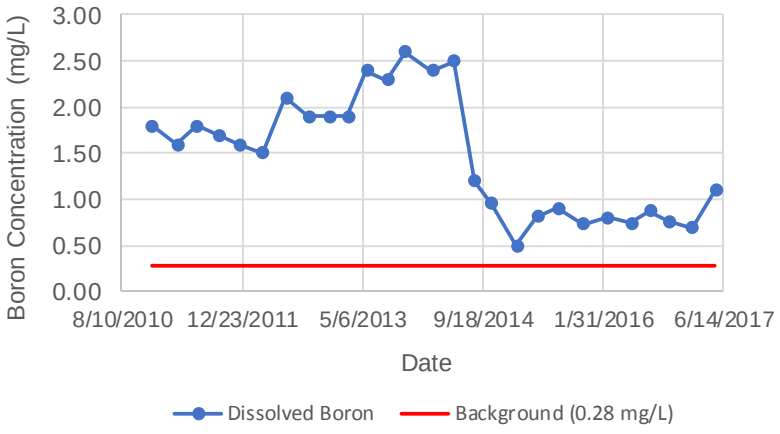
	Boron Concentration (mg/L)		Sulfate Concentration (mg/L)	
Well	Median	Background	Median	Background
MW-1	1.60	0.28	280	106
MW-2	2.40	0.28	340	106
MW-3	3.20	0.28	390	106
MW-4	4.60	0.28	1500	106
MW-5	3.50	0.28	540	106
MW-6	2.90	0.28	360	106
MW-7	3.90	0.28	530	106
MW-8	2.30	0.28	450	106
MW-9	1.70	0.28	310	106
MW-10	2.80	0.28	300	106
MW-11	3.05	0.28	160	106
MW-12	2.15	0.28	235	106

NOTE: All concentrations are dissolved unless otherwise noted.

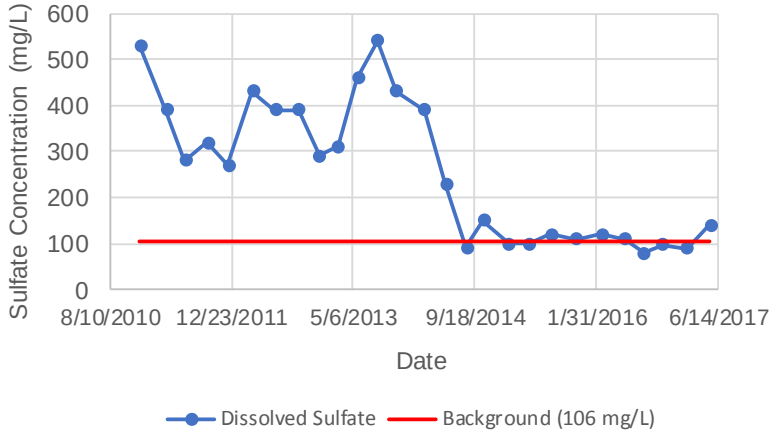
Means there are no dissolved concentrations for these wells. These values are for total recoverable concentrations for the dates shown in the Data tab.

Will County

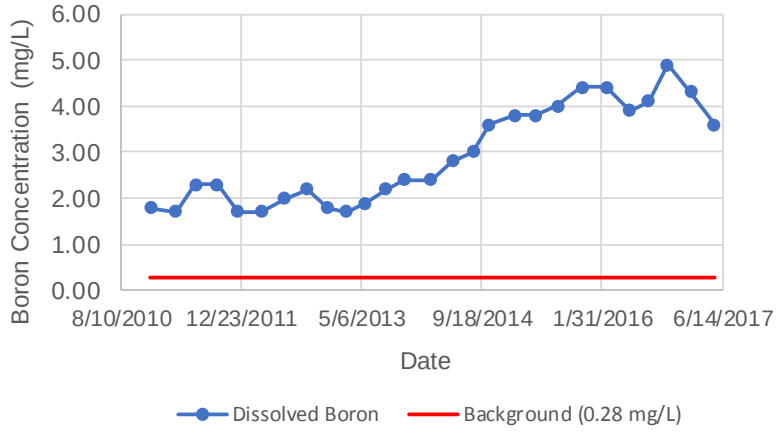
MW-1



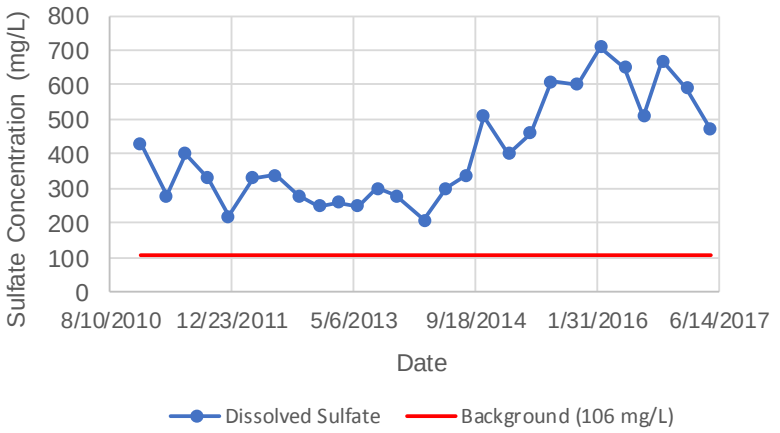
MW-1



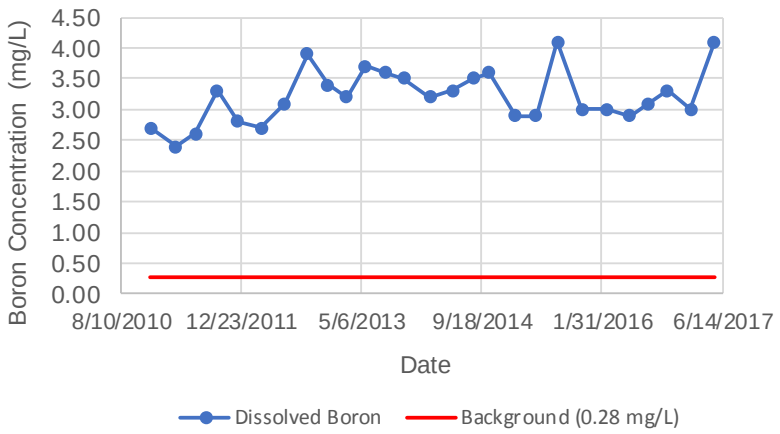
MW-2



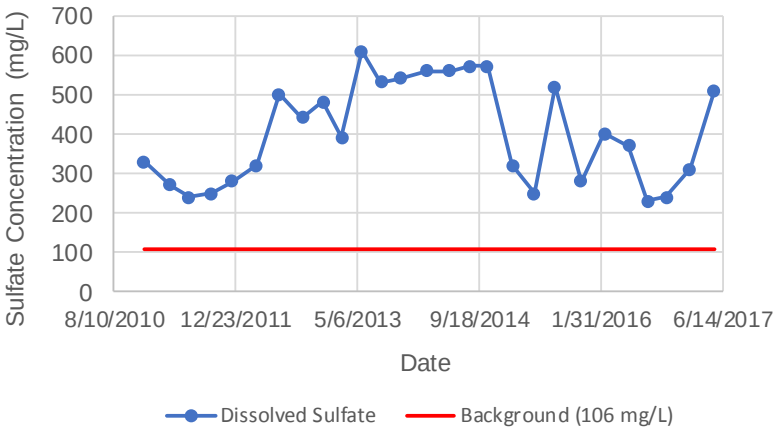
MW-2



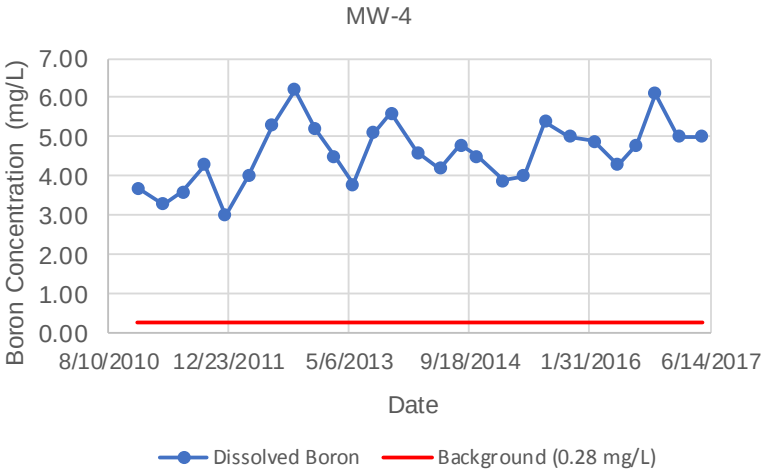
MW-3

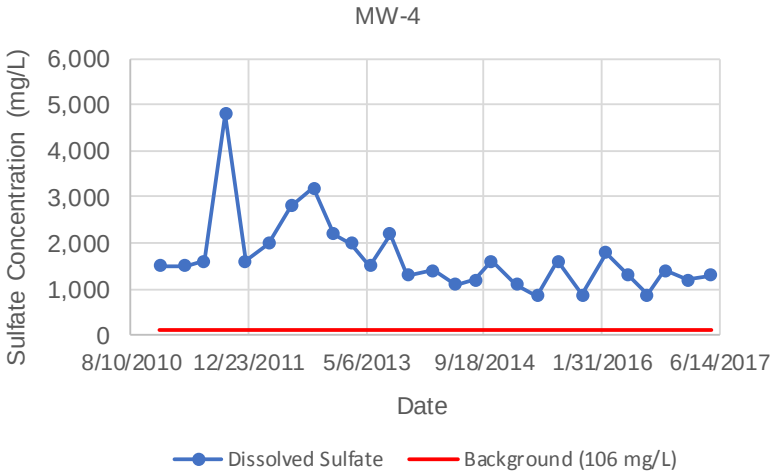


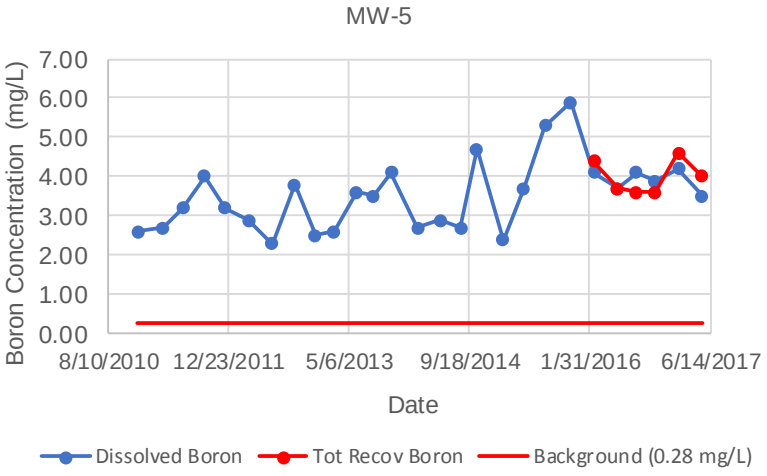
MW-3

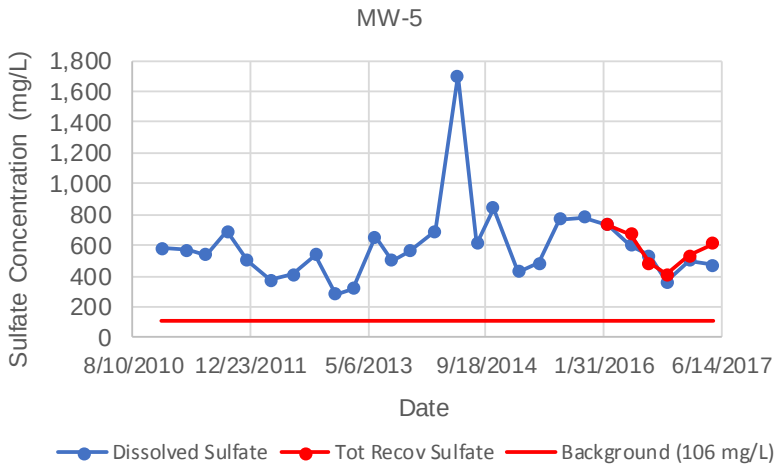


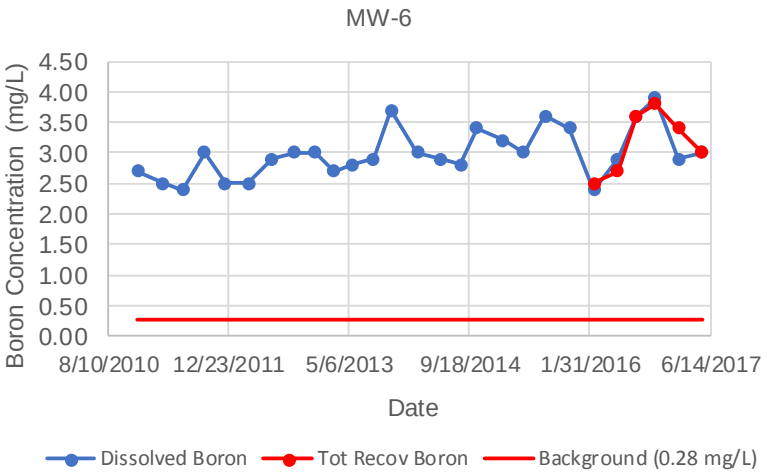
Will County

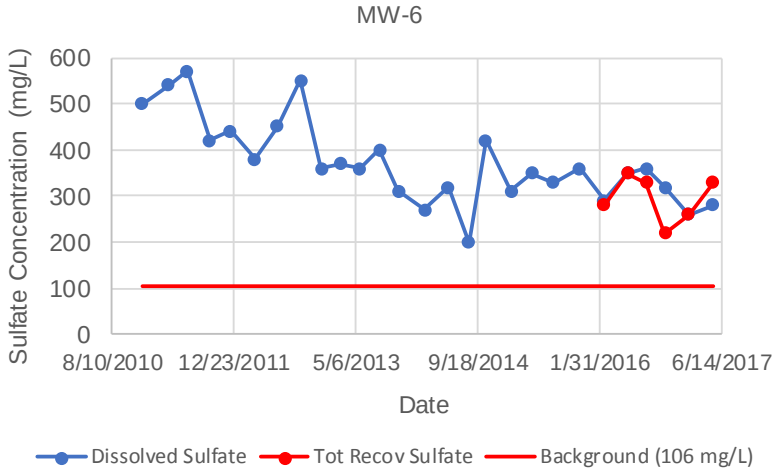

MW-4
Boron Concentration (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.28 mg/L)


MW-4
Sulfate Concentration (mg/L)
6,000
5,000
4,000
3,000
2,000
1,000
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (106 mg/L)

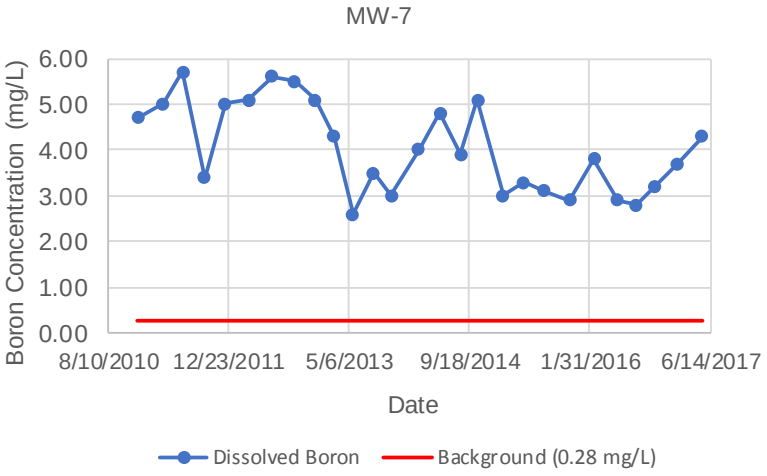

MW-5
Boron Concentration (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.28 mg/L)

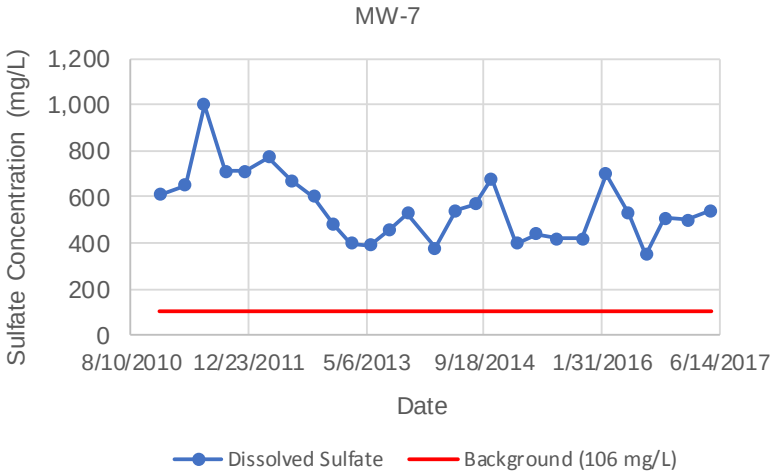

MW-5
Sulfate Concentration (mg/L)
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (106 mg/L)

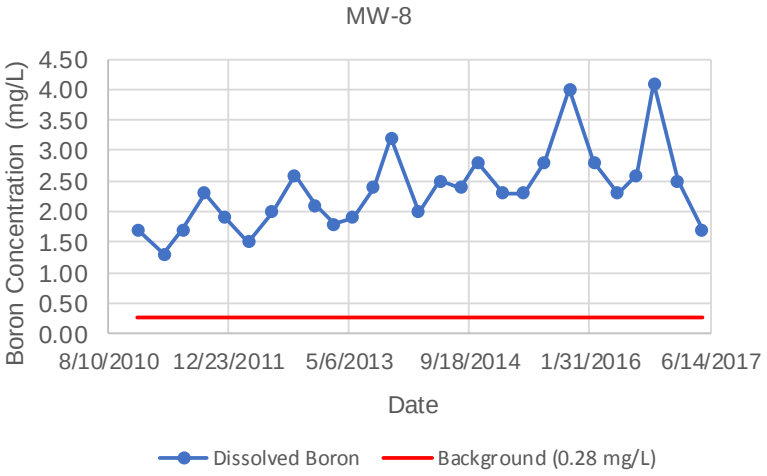

MW-6
Boron Concentration (mg/L)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.28 mg/L)

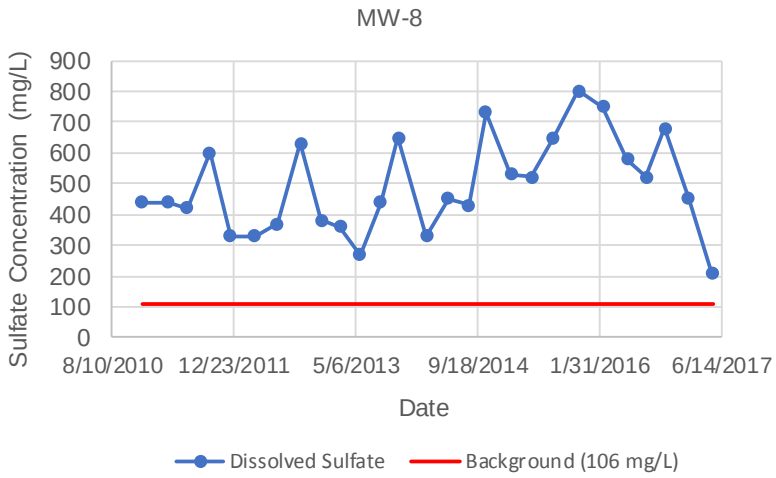

MW-6
Sulfate Concentration (mg/L)
600
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (106 mg/L)

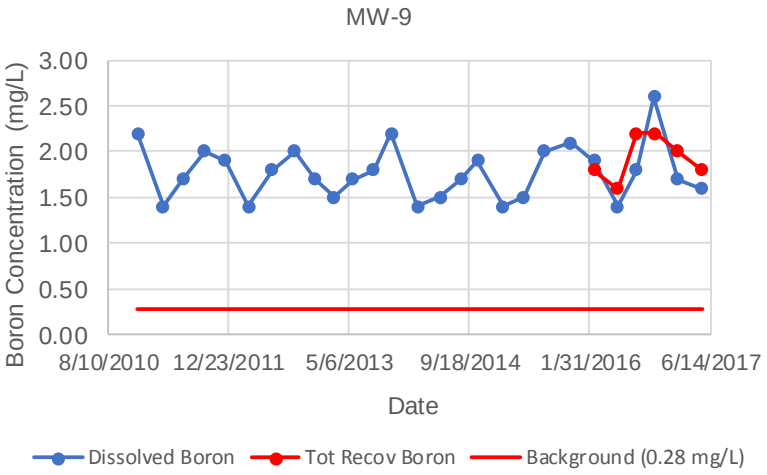
Will County

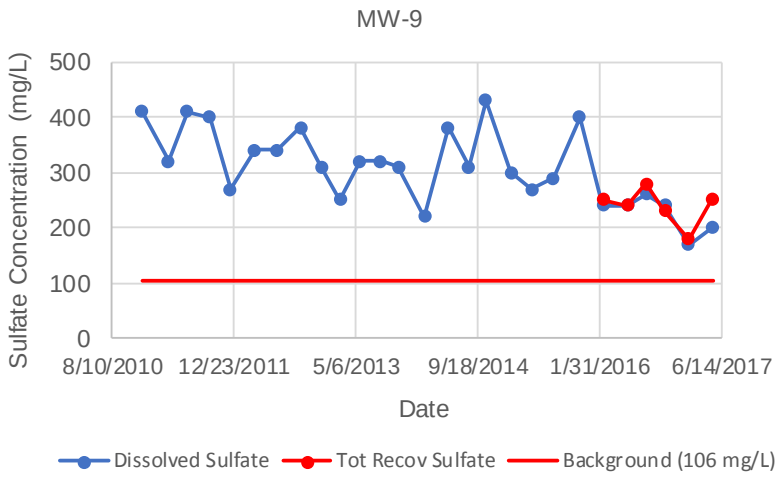

MW-7
Boron Concentration (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.28 mg/L)


MW-7
Sulfate Concentration (mg/L)
1,200
1,000
800
600
400
200
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (106 mg/L)

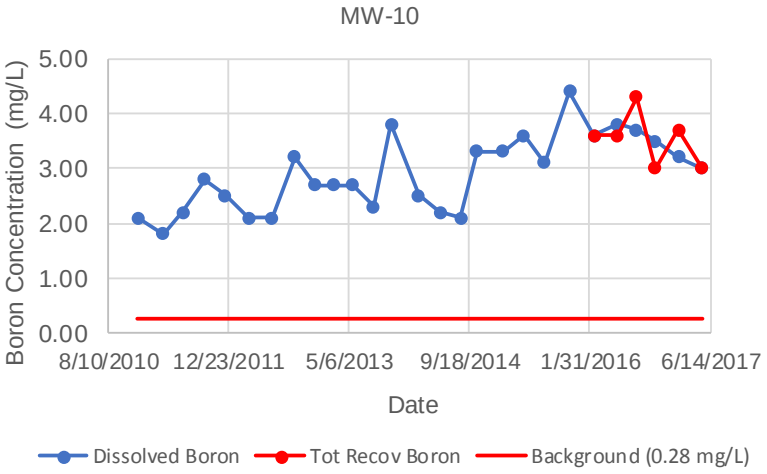

MW-8
Boron Concentration (mg/L)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Background (0.28 mg/L)

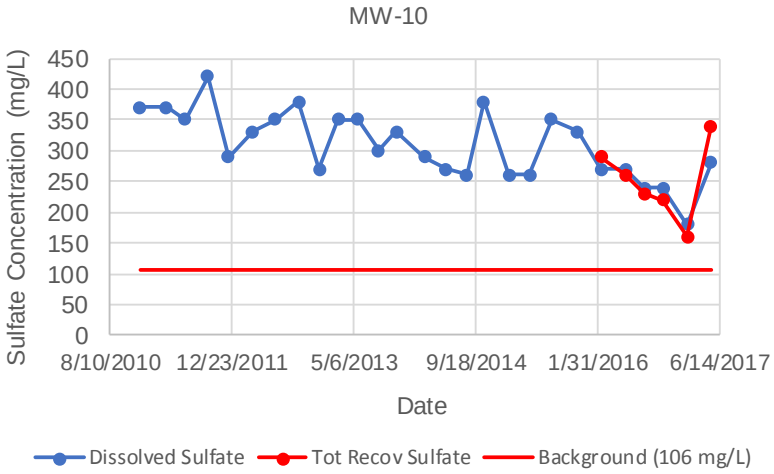

MW-8
Sulfate Concentration (mg/L)
900
800
700
600
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Background (106 mg/L)

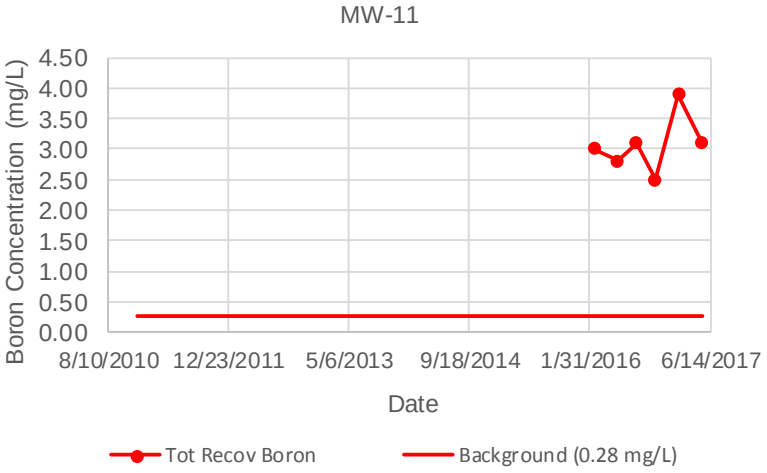

MW-9
Boron Concentration (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.28 mg/L)

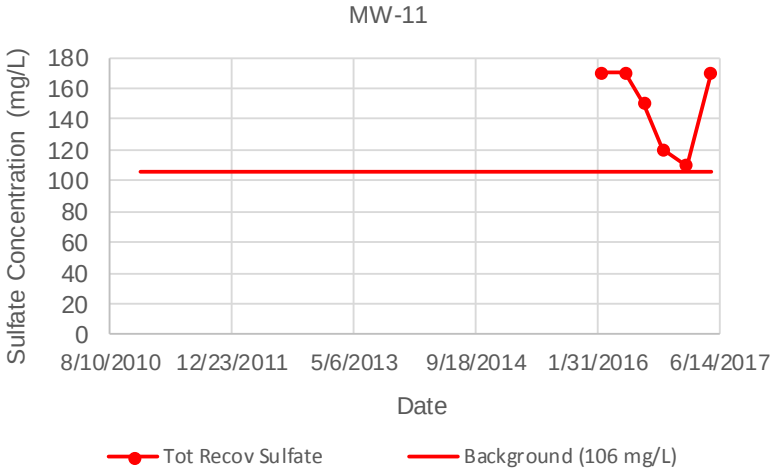

MW-9
Sulfate Concentration (mg/L)
500
400
300
200
100
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (106 mg/L)

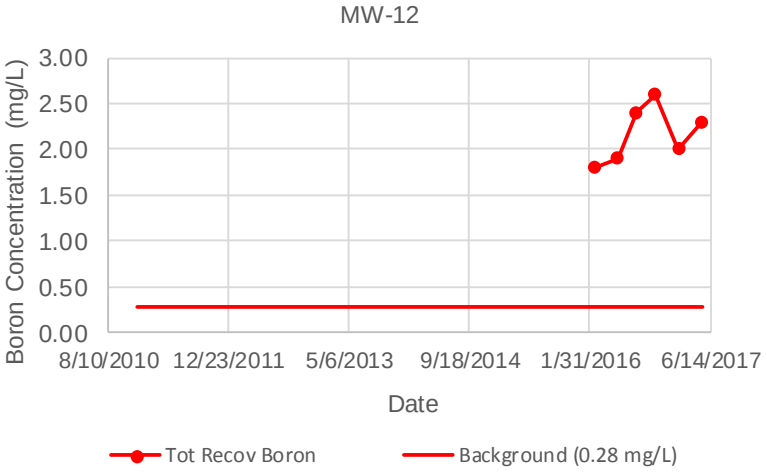
Will County

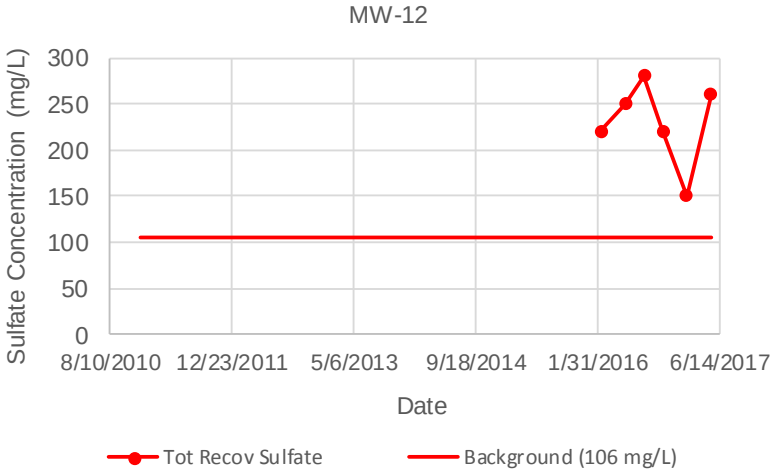

MW-10
Boron Concentration (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Boron
Tot Recov Boron
Background (0.28 mg/L)


MW-10
Sulfate Concentration (mg/L)
450
400
350
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Dissolved Sulfate
Tot Recov Sulfate
Background (106 mg/L)


MW-11
Boron Concentration (mg/L)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.28 mg/L)


MW-11
Sulfate Concentration (mg/L)
180
160
140
120
100
80
60
40
20
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (106 mg/L)


MW-12
Boron Concentration (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Boron
Background (0.28 mg/L)


MW-12
Sulfate Concentration (mg/L)
300
250
200
150
100
50
0
8/10/2010
12/23/2011
5/6/2013
9/18/2014
1/31/2016
6/14/2017
Date
Tot Recov Sulfate
Background (106 mg/L)

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-1			MW-2		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	1.80	530.00	12/13/2010	1.80	430.00
3/28/2011	1.60	390.00	3/28/2011	1.70	280.00
6/15/2011	1.80	280.00	6/15/2011	2.30	400.00
9/15/2011	1.70	320.00	9/15/2011	2.30	330.00
12/8/2011	1.60	270.00	12/9/2011	1.70	220.00
3/16/2012	1.50	430.00	3/16/2012	1.70	330.00
6/20/2012	2.10	390.00	6/20/2012	2.00	340.00
9/24/2012	1.90	390.00	9/24/2012	2.20	280.00
12/18/2012	1.90	290.00	12/18/2012	1.80	250.00
3/5/2013	1.90	310.00	3/5/2013	1.70	260.00
5/23/2013	2.40	460.00	5/23/2013	1.90	250.00
8/14/2013	2.30	540.00	8/14/2013	2.20	300.00
10/29/2013	2.60	430.00	10/28/2013	2.40	280.00
2/20/2014	2.40	390.00	2/20/2014	2.40	210.00
5/20/2014	2.50	230.00	5/20/2014	2.80	300.00
8/13/2014	1.20	91.00	8/13/2014	3.00	340.00
10/21/2014	0.96	150.00	10/20/2014	3.60	510.00
2/4/2015	0.50	99.00	2/4/2015	3.80	400.00
4/30/2015	0.81	100.00	5/1/2015	3.80	460.00
7/27/2015	0.91	120.00	7/28/2015	4.00	610.00
11/9/2015	0.73	110.00	11/10/2015	4.40	600.00
2/18/2016	0.80	120.00	2/17/2016	4.40	710.00
5/26/2016	0.74	110.00	5/25/2016	3.90	650.00
8/11/2016	0.87	80.00	8/11/2016	4.10	510.00
10/27/2016	0.76	97.00	10/27/2016	4.90	670.00
2/2/2017	0.69	90.00	2/2/2017	4.30	590.00
5/10/2017	1.10	140.00	5/10/2017	3.60	470.00
Median	1.60	270.00		2.40	340.00
Mean	1.48	257.67		2.91	406.67
Std. Dev	0.66	152.37		1.05	151.58
Maximum	2.60	540.00		4.90	710.00
Minimum	0.50	80.00		1.70	210.00
N	27	27		27.00	27.00

Means Not Detected and replaced with 1/2 Detection Limit

NOTE: All concentrations are dissolved unless otherwise noted

Means the concentration is total recoverable. NOT included in the Statistics.

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-3			MW-4		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	2.70	330.00	12/13/2010	3.70	1500.00
3/28/2011	2.40	270.00	3/28/2011	3.30	1500.00
6/15/2011	2.60	240.00	6/15/2011	3.60	1600.00
9/15/2011	3.30	250.00	9/15/2011	4.30	4800.00
12/8/2011	2.80	280.00	12/8/2011	3.00	1600.00
3/16/2012	2.70	320.00	3/16/2012	4.00	2000.00
6/20/2012	3.10	500.00	6/20/2012	5.30	2800.00
9/24/2012	3.90	440.00	9/24/2012	6.20	3200.00
12/18/2012	3.40	480.00	12/18/2012	5.20	2200.00
3/5/2013	3.20	390.00	3/5/2013	4.50	2000.00
5/22/2013	3.70	610.00	5/22/2013	3.80	1500.00
8/14/2013	3.60	530.00	8/14/2013	5.10	2200.00
10/28/2013	3.50	540.00	10/28/2013	5.60	1300.00
2/13/2014	3.20	560.00	2/13/2014	4.60	1400.00
5/21/2014	3.30	560.00	5/21/2014	4.20	1100.00
8/12/2014	3.50	570.00	8/13/2014	4.80	1200.00
10/20/2014	3.60	570.00	10/20/2014	4.50	1600.00
2/4/2015	2.90	320.00	2/4/2015	3.90	1100.00
5/1/2015	2.90	250.00	5/1/2015	4.00	860.00
7/28/2015	4.10	520.00	7/28/2015	5.40	1600.00
11/10/2015	3.00	280.00	11/10/2015	5.00	870.00
2/17/2016	3.00	400.00	2/17/2016	4.90	1800.00
5/25/2016	2.90	370.00	5/25/2016	4.30	1300.00
8/11/2016	3.10	230.00	8/11/2016	4.80	880.00
10/27/2016	3.30	240.00	10/27/2016	6.10	1400.00
2/1/2017	3.00	310.00	2/1/2017	5.00	1200.00
5/11/2017	4.10	510.00	5/11/2017	5.00	1300.00
	3.20	390.00		4.60	1500.00
	3.21	402.59		4.60	1696.67
	0.44	128.83		0.80	828.96
	4.10	610.00		6.20	4800.00
	2.40	230.00		3.00	860.00
	27.00	27.00		27.00	27.00

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-5			MW-6		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	2.60	580.00	12/13/2010	2.70	500.00
3/28/2011	2.70	570.00	3/28/2011	2.50	540.00
6/15/2011	3.20	540.00	6/15/2011	2.40	570.00
9/15/2011	4.00	690.00	9/15/2011	3.00	420.00
12/8/2011	3.20	500.00	12/8/2011	2.50	440.00
3/16/2012	2.90	370.00	3/16/2012	2.50	380.00
6/20/2012	2.30	410.00	6/20/2012	2.90	450.00
9/24/2012	3.80	540.00	9/24/2012	3.00	550.00
12/18/2012	2.50	280.00	12/18/2012	3.00	360.00
3/5/2013	2.60	320.00	3/5/2013	2.70	370.00
6/5/2013	3.60	650.00	5/22/2013	2.80	360.00
8/14/2013	3.50	500.00	8/14/2013	2.90	400.00
10/28/2013	4.10	560.00	10/28/2013	3.70	310.00
2/13/2014	2.70	690.00	2/13/2014	3.00	270.00
5/21/2014	2.90	1700.00	5/20/2014	2.90	320.00
8/12/2014	2.70	610.00	8/12/2014	2.80	200.00
10/20/2014	4.70	840.00	10/20/2014	3.40	420.00
2/3/2015	2.40	430.00	2/3/2015	3.20	310.00
5/1/2015	3.70	480.00	4/30/2015	3.00	350.00
7/28/2015	5.30	770.00	7/28/2015	3.60	330.00
11/11/2015	5.90	780.00	11/10/2015	3.40	360.00
2/18/2016	4.10	730.00	2/18/2016	2.40	290.00
5/26/2016	3.70	600.00	5/26/2016	2.90	350.00
8/10/2016	4.10	530.00	8/11/2016	3.60	360.00
10/26/2016	3.90	360.00	10/26/2016	3.90	320.00
2/1/2017	4.20	500.00	2/1/2017	2.90	260.00
5/11/2017	3.50	470.00	5/11/2017	3.00	280.00
2/18/2016	4.40	730.00	2/18/2016	2.50	280.00
5/26/2016	3.70	670.00	5/26/2016	2.70	350.00
8/10/2016	3.60	480.00	8/11/2016	3.60	330.00
10/26/2016	3.60	410.00	10/26/2016	3.80	220.00
2/1/2017	4.60	530.00	2/1/2017	3.40	260.00
5/11/2017	4.00	610.00	5/11/2017	3.00	330.00
	3.50	540.00		2.90	360.00
	3.51	592.59		2.99	372.96
	0.89	262.80		0.40	91.10
	5.90	1700.00		3.90	570.00
	2.30	280.00		2.40	200.00
	27	27		27	27

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-7			MW-8		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	4.70	610.00	12/13/2010	1.70	440.00
3/28/2011	5.00	650.00	3/29/2011	1.30	440.00
6/15/2011	5.70	1000.00	6/15/2011	1.70	420.00
9/15/2011	3.40	710.00	9/15/2011	2.30	600.00
12/8/2011	5.00	710.00	12/8/2011	1.90	330.00
3/16/2012	5.10	770.00	3/16/2012	1.50	330.00
6/20/2012	5.60	670.00	6/20/2012	2.00	370.00
9/24/2012	5.50	600.00	9/24/2012	2.60	630.00
12/18/2012	5.10	480.00	12/18/2012	2.10	380.00
3/5/2013	4.30	400.00	3/5/2013	1.80	360.00
5/22/2013	2.60	390.00	5/23/2013	1.90	270.00
8/15/2013	3.50	460.00	8/15/2013	2.40	440.00
10/29/2013	3.00	530.00	10/28/2013	3.20	650.00
2/20/2014	4.00	380.00	2/20/2014	2.00	330.00
5/20/2014	4.80	540.00	5/20/2014	2.50	450.00
8/12/2014	3.90	570.00	8/12/2014	2.40	430.00
10/21/2014	5.10	680.00	10/21/2014	2.80	730.00
2/3/2015	3.00	400.00	2/3/2015	2.30	530.00
4/30/2015	3.30	440.00	4/30/2015	2.30	520.00
7/27/2015	3.10	420.00	7/27/2015	2.80	650.00
11/9/2015	2.90	420.00	11/9/2015	4.00	800.00
2/17/2016	3.80	700.00	2/16/2016	2.80	750.00
5/24/2016	2.90	530.00	5/24/2016	2.30	580.00
8/9/2016	2.80	350.00	8/9/2016	2.60	520.00
10/25/2016	3.20	510.00	10/25/2016	4.10	680.00
1/31/2017	3.70	500.00	1/31/2017	2.50	450.00
5/9/2017	4.30	540.00	5/9/2017	1.70	210.00
	3.90	530.00		2.30	450.00
	4.05	554.07		2.35	492.22
	0.98	148.77		0.66	154.16
	5.70	1000.00		4.10	800.00
	2.60	350.00		1.30	210.00
	27	27		27	27

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-9			MW-10		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
12/13/2010	2.20	410.00	12/13/2010	2.10	370.00
3/28/2011	1.40	320.00	3/28/2011	1.80	370.00
6/15/2011	1.70	410.00	6/15/2011	2.20	350.00
9/15/2011	2.00	400.00	9/15/2011	2.80	420.00
12/8/2011	1.90	270.00	12/8/2011	2.50	290.00
3/16/2012	1.40	340.00	3/16/2012	2.10	330.00
6/20/2012	1.80	340.00	6/20/2012	2.10	350.00
9/24/2012	2.00	380.00	9/24/2012	3.20	380.00
12/18/2012	1.70	310.00	12/18/2012	2.70	270.00
3/5/2013	1.50	250.00	3/5/2013	2.70	350.00
5/23/2013	1.70	320.00	5/22/2013	2.70	350.00
8/15/2013	1.80	320.00	8/15/2013	2.30	300.00
10/29/2013	2.20	310.00	10/28/2013	3.80	330.00
2/13/2014	1.40	220.00	2/20/2014	2.50	290.00
5/20/2014	1.50	380.00	5/20/2014	2.20	270.00
8/12/2014	1.70	310.00	8/13/2014	2.10	260.00
10/21/2014	1.90	430.00	10/20/2014	3.30	380.00
2/3/2015	1.40	300.00	2/3/2015	3.30	260.00
4/30/2015	1.50	270.00	4/30/2015	3.60	260.00
7/27/2015	2.00	290.00	7/27/2015	3.10	350.00
11/11/2015	2.10	400.00	11/10/2015	4.40	330.00
2/16/2016	1.90	240.00	2/16/2016	3.60	270.00
5/24/2016	1.40	240.00	5/25/2016	3.80	270.00
8/9/2016	1.80	260.00	8/10/2016	3.70	240.00
10/25/2016	2.60	240.00	10/26/2016	3.50	240.00
1/31/2017	1.70	170.00	2/2/2017	3.20	180.00
5/9/2017	1.60	200.00	5/10/2017	3.00	280.00
2/17/2016	1.80	250.00	2/16/2016	3.60	290.00
5/24/2016	1.60	240.00	5/25/2016	3.60	260.00
8/9/2016	2.20	280.00	8/10/2016	4.30	230.00
10/26/2016	2.20	230.00	10/26/2016	3.00	220.00
1/31/2017	2.00	180.00	2/2/2017	3.70	160.00
5/9/2017	1.80	250.00	5/10/2017	3.00	340.00
	1.70	310.00		2.80	300.00
	1.77	308.52		2.90	308.89
	0.30	69.82		0.68	55.70
	2.60	430.00		4.40	420.00
	1.40	170.00		1.80	180.00
	27	27		27	27
Reg. Backgnd.	0.28	106.00			

WILL COUNTY - DATA UTILIZED FOR HEARING CHARTS AND TABLES

MW-11			MW-12		
Date	Boron (mg/L)	Sulfate (mg/L)	Date	Boron (mg/L)	Sulfate (mg/L)
2/16/2016	3.00	170.00	2/16/2016	1.80	220.00
5/25/2016	2.80	170.00	5/25/2016	1.90	250.00
8/10/2016	3.10	150.00	8/10/2016	2.40	280.00
10/26/2016	2.50	120.00	10/26/2016	2.60	220.00
2/1/2017	3.90	110.00	2/1/2017	2.00	150.00
5/10/2017	3.10	170.00	5/10/2017	2.30	260.00
	3.05	160.00		2.15	235.00
	3.07	148.33		2.17	230.00
	0.47	27.14		0.31	45.61
	3.90	170.00		2.60	280.00
	2.50	110.00		1.80	150.00
	6	6		6	6

Demonstrative exhibit: Groundwater monitoring results greater than Illinois Class I Groundwater Quality Standards, October 2010 - July 2017. Values presented in Exhibit B to Complainants Jan 14, 2015 amended complaint are marked with an asterisk in the far right column. Results tabulated below are for dissolved metals only and do not include total recoverable metals results.

Index no.	Site	Well	Parameter	Value (mg/L)	Class I Gw standard	Date	
1	Joliet 29	MW-01	chloride	210.000	200.000	5/23/2013	*
2	Joliet 29	MW-02	antimony	0.012	0.006	12/6/2010	*
3	Joliet 29	MW-02	chloride	230.000	200.000	6/14/2011	*
4	Joliet 29	MW-02	chloride	280.000	200.000	3/15/2012	*
5	Joliet 29	MW-02	chloride	260.000	200.000	3/5/2013	*
6	Joliet 29	MW-02	chloride	250.000	200.000	5/23/2013	*
7	Joliet 29	MW-02	chloride	310.000	200.000	7/22/2013	*
8	Joliet 29	MW-02	chloride	240.000	200.000	2/21/2014	*
9	Joliet 29	MW-02	chloride	350.000	200.000	5/2/2014	*
10	Joliet 29	MW-02	chloride	280.000	200.000	8/18/2014	*
11	Joliet 29	MW-03	antimony	0.007	0.006	9/14/2011	*
12	Joliet 29	MW-03	antimony	0.016	0.006	12/7/2011	*
13	Joliet 29	MW-03	antimony	0.013	0.006	3/15/2012	*
14	Joliet 29	MW-03	chloride	260.000	200.000	12/7/2010	*
15	Joliet 29	MW-03	chloride	240.000	200.000	3/28/2011	*
16	Joliet 29	MW-03	chloride	300.000	200.000	6/14/2011	*
17	Joliet 29	MW-03	chloride	260.000	200.000	12/7/2011	*
18	Joliet 29	MW-03	chloride	250.000	200.000	3/15/2012	*
19	Joliet 29	MW-03	chloride	260.000	200.000	6/19/2012	*
20	Joliet 29	MW-03	chloride	330.000	200.000	9/19/2012	*
21	Joliet 29	MW-03	chloride	290.000	200.000	12/20/2012	*
22	Joliet 29	MW-03	chloride	260.000	200.000	3/5/2013	*
23	Joliet 29	MW-03	chloride	380.000	200.000	5/22/2013	*
24	Joliet 29	MW-03	chloride	210.000	200.000	7/22/2013	*
25	Joliet 29	MW-03	chloride	250.000	200.000	10/15/2013	*
26	Joliet 29	MW-03	chloride	300.000	200.000	5/2/2014	*
27	Joliet 29	MW-03	chloride	220.000	200.000	8/18/2014	*
28	Joliet 29	MW-03	TDS	1300.000	1200.000	5/22/2013	*
29	Joliet 29	MW-04	antimony	0.007	0.006	12/7/2011	*
30	Joliet 29	MW-04	antimony	0.012	0.006	5/22/2013	*
31	Joliet 29	MW-04	chloride	270.000	200.000	12/6/2010	*
32	Joliet 29	MW-04	chloride	270.000	200.000	3/28/2011	*
33	Joliet 29	MW-04	chloride	250.000	200.000	6/14/2011	*
34	Joliet 29	MW-04	chloride	210.000	200.000	3/15/2012	*
35	Joliet 29	MW-04	chloride	270.000	200.000	6/19/2012	*
36	Joliet 29	MW-04	chloride	260.000	200.000	9/19/2012	*
37	Joliet 29	MW-04	chloride	250.000	200.000	12/20/2012	*
38	Joliet 29	MW-04	chloride	230.000	200.000	3/5/2013	*
39	Joliet 29	MW-04	chloride	270.000	200.000	5/22/2013	*
40	Joliet 29	MW-04	chloride	210.000	200.000	10/16/2013	*
41	Joliet 29	MW-04	chloride	220.000	200.000	2/21/2014	*
42	Joliet 29	MW-04	chloride	270.000	200.000	5/1/2014	*
43	Joliet 29	MW-04	chloride	210.000	200.000	8/18/2014	*
44	Joliet 29	MW-04	manganese	0.330	0.150	12/6/2010	*
45	Joliet 29	MW-05	chloride	240.000	200.000	3/28/2011	*
46	Joliet 29	MW-05	chloride	220.000	200.000	6/14/2011	*

47	Joliet 29	MW-05	chloride	210.000	200.000	3/15/2012 *
48	Joliet 29	MW-05	chloride	220.000	200.000	6/19/2012 *
49	Joliet 29	MW-05	chloride	240.000	200.000	9/19/2012 *
50	Joliet 29	MW-05	chloride	210.000	200.000	12/20/2012 *
51	Joliet 29	MW-05	chloride	230.000	200.000	3/5/2013 *
52	Joliet 29	MW-05	chloride	240.000	200.000	2/21/2014 *
53	Joliet 29	MW-05	chloride	370.000	200.000	5/1/2014 *
54	Joliet 29	MW-06	chloride	270.000	200.000	3/28/2011 *
55	Joliet 29	MW-06	chloride	240.000	200.000	3/15/2012 *
56	Joliet 29	MW-06	chloride	210.000	200.000	6/19/2012 *
57	Joliet 29	MW-06	chloride	370.000	200.000	2/21/2014 *
58	Joliet 29	MW-06	chloride	340.000	200.000	5/2/2014 *
59	Joliet 29	MW-07	chloride	430.000	200.000	12/6/2010 *
60	Joliet 29	MW-07	chloride	320.000	200.000	3/28/2011 *
61	Joliet 29	MW-07	chloride	300.000	200.000	3/15/2012 *
62	Joliet 29	MW-07	chloride	470.000	200.000	2/21/2014 *
63	Joliet 29	MW-07	chloride	350.000	200.000	5/2/2014 *
64	Joliet 29	MW-07	manganese	0.290	0.150	12/6/2010 *
65	Joliet 29	MW-08	chloride	350.000	200.000	3/28/2011 *
66	Joliet 29	MW-08	chloride	410.000	200.000	3/15/2012 *
67	Joliet 29	MW-08	chloride	300.000	200.000	5/23/2013 *
68	Joliet 29	MW-08	chloride	210.000	200.000	7/22/2013 *
69	Joliet 29	MW-08	chloride	270.000	200.000	2/21/2014 *
70	Joliet 29	MW-08	chloride	780.000	200.000	5/1/2014 *
71	Joliet 29	MW-08	sulfate	460.000	400.000	5/1/2014 *
72	Joliet 29	MW-08	TDS	2100.000	1200.000	5/1/2014 *
73	Joliet 29	MW-09	chloride	230.000	200.000	3/28/2011 *
74	Joliet 29	MW-09	chloride	290.000	200.000	6/14/2011 *
75	Joliet 29	MW-09	chloride	250.000	200.000	6/19/2012 *
76	Joliet 29	MW-09	chloride	290.000	200.000	5/23/2013 *
77	Joliet 29	MW-09	chloride	280.000	200.000	7/22/2013 *
78	Joliet 29	MW-09	chloride	280.000	200.000	10/15/2013 *
79	Joliet 29	MW-09	chloride	270.000	200.000	2/17/2014 *
80	Joliet 29	MW-09	chloride	340.000	200.000	5/1/2014 *
81	Joliet 29	MW-09	chloride	270.000	200.000	8/18/2014 *
82	Joliet 29	MW-09	iron	7.300	5.000	6/14/2011 *
83	Joliet 29	MW-09	iron	5.500	5.000	3/15/2012 *
84	Joliet 29	MW-09	iron	8.000	5.000	6/19/2012 *
85	Joliet 29	MW-09	iron	13.000	5.000	12/20/2012 *
86	Joliet 29	MW-09	iron	15.000	5.000	3/5/2013 *
87	Joliet 29	MW-09	iron	160.000	5.000	5/23/2013 *
88	Joliet 29	MW-09	iron	50.000	5.000	7/22/2013 *
89	Joliet 29	MW-09	iron	25.000	5.000	10/15/2013 *
90	Joliet 29	MW-09	iron	12.000	5.000	2/17/2014 *
91	Joliet 29	MW-09	iron	8.400	5.000	5/1/2014 *
92	Joliet 29	MW-09	iron	130.000	5.000	8/18/2014 *
93	Joliet 29	MW-09	manganese	1.100	0.150	12/6/2010 *
94	Joliet 29	MW-09	manganese	1.600	0.150	3/28/2011 *
95	Joliet 29	MW-09	manganese	0.950	0.150	6/14/2011 *
96	Joliet 29	MW-09	manganese	0.820	0.150	9/14/2011 *
97	Joliet 29	MW-09	manganese	0.660	0.150	12/7/2011 *
98	Joliet 29	MW-09	manganese	1.300	0.150	3/15/2012 *

99	Joliet 29	MW-09	manganese	1.200	0.150	6/19/2012 *
100	Joliet 29	MW-09	manganese	0.680	0.150	9/19/2012 *
101	Joliet 29	MW-09	manganese	0.440	0.150	12/20/2012 *
102	Joliet 29	MW-09	manganese	0.430	0.150	3/5/2013 *
103	Joliet 29	MW-09	manganese	1.600	0.150	5/23/2013 *
104	Joliet 29	MW-09	manganese	0.810	0.150	7/22/2013 *
105	Joliet 29	MW-09	manganese	0.520	0.150	10/15/2013 *
106	Joliet 29	MW-09	manganese	0.340	0.150	2/17/2014 *
107	Joliet 29	MW-09	manganese	0.300	0.150	5/1/2014 *
108	Joliet 29	MW-09	manganese	0.720	0.150	8/18/2014 *
109	Joliet 29	MW-09	sulfate	1600.000	400.000	12/6/2010 *
110	Joliet 29	MW-09	sulfate	1100.000	400.000	3/28/2011 *
111	Joliet 29	MW-09	sulfate	580.000	400.000	6/14/2011 *
112	Joliet 29	MW-09	sulfate	750.000	400.000	9/14/2011 *
113	Joliet 29	MW-09	sulfate	1600.000	400.000	3/15/2012 *
114	Joliet 29	MW-09	sulfate	1500.000	400.000	6/19/2012 *
115	Joliet 29	MW-09	sulfate	1600.000	400.000	9/19/2012 *
116	Joliet 29	MW-09	sulfate	1100.000	400.000	12/20/2012 *
117	Joliet 29	MW-09	sulfate	700.000	400.000	3/5/2013 *
118	Joliet 29	MW-09	sulfate	1300.000	400.000	5/23/2013 *
119	Joliet 29	MW-09	sulfate	1000.000	400.000	7/22/2013 *
120	Joliet 29	MW-09	sulfate	680.000	400.000	10/15/2013 *
121	Joliet 29	MW-09	sulfate	560.000	400.000	2/17/2014 *
122	Joliet 29	MW-09	sulfate	560.000	400.000	5/1/2014 *
123	Joliet 29	MW-09	sulfate	880.000	400.000	8/18/2014 *
124	Joliet 29	MW-09	TDS	2600.000	1200.000	12/6/2010 *
125	Joliet 29	MW-09	TDS	2400.000	1200.000	3/28/2011 *
126	Joliet 29	MW-09	TDS	1500.000	1200.000	6/14/2011 *
127	Joliet 29	MW-09	TDS	1700.000	1200.000	9/14/2011 *
128	Joliet 29	MW-09	TDS	2400.000	1200.000	12/7/2011 *
129	Joliet 29	MW-09	TDS	2600.000	1200.000	3/15/2012 *
130	Joliet 29	MW-09	TDS	2800.000	1200.000	6/19/2012 *
131	Joliet 29	MW-09	TDS	2900.000	1200.000	9/19/2012 *
132	Joliet 29	MW-09	TDS	2000.000	1200.000	12/20/2012 *
133	Joliet 29	MW-09	TDS	1700.000	1200.000	3/5/2013 *
134	Joliet 29	MW-09	TDS	3000.000	1200.000	5/23/2013 *
135	Joliet 29	MW-09	TDS	2300.000	1200.000	7/22/2013 *
136	Joliet 29	MW-09	TDS	1700.000	1200.000	10/15/2013 *
137	Joliet 29	MW-09	TDS	1600.000	1200.000	2/17/2014 *
138	Joliet 29	MW-09	TDS	1700.000	1200.000	5/1/2014 *
139	Joliet 29	MW-09	TDS	2100.000	1200.000	8/18/2014 *
140	Joliet 29	MW-10	chloride	300.000	200.000	3/28/2011 *
141	Joliet 29	MW-10	chloride	290.000	200.000	6/19/2012 *
142	Joliet 29	MW-10	chloride	230.000	200.000	9/19/2012 *
143	Joliet 29	MW-10	chloride	210.000	200.000	3/5/2013 *
144	Joliet 29	MW-10	chloride	240.000	200.000	5/22/2013 *
145	Joliet 29	MW-10	chloride	210.000	200.000	7/23/2013 *
146	Joliet 29	MW-10	chloride	220.000	200.000	10/15/2013 *
147	Joliet 29	MW-10	chloride	240.000	200.000	2/17/2014 *
148	Joliet 29	MW-10	chloride	300.000	200.000	5/1/2014 *
149	Joliet 29	MW-11	boron	2.600	2.000	3/28/2011 *
150	Joliet 29	MW-11	boron	2.200	2.000	6/14/2011 *

151	Joliet 29	MW-11	chloride	270.000	200.000	3/28/2011	*
152	Joliet 29	MW-11	chloride	280.000	200.000	6/14/2011	*
153	Joliet 29	MW-11	chloride	240.000	200.000	3/15/2012	*
154	Joliet 29	MW-11	chloride	430.000	200.000	2/21/2014	*
155	Joliet 29	MW-11	chloride	340.000	200.000	5/1/2014	*
156	Powerton	MW-01	Nitrogen/Nitra	11.000	10.000	9/20/2011	*
157	Powerton	MW-02	antimony	0.015	0.006	5/29/2013	*
158	Powerton	MW-02	boron	2.700	2.000	10/21/2013	*
159	Powerton	MW-04	manganese	0.680	0.150	3/25/2011	*
160	Powerton	MW-04	manganese	0.410	0.150	6/16/2011	*
161	Powerton	MW-04	manganese	0.690	0.150	9/20/2011	*
162	Powerton	MW-04	manganese	0.350	0.150	12/12/2011	*
163	Powerton	MW-04	manganese	0.260	0.150	6/25/2012	*
164	Powerton	MW-04	manganese	0.500	0.150	9/18/2012	*
165	Powerton	MW-04	manganese	0.270	0.150	10/21/2013	*
166	Powerton	MW-04	manganese	0.240	0.150	8/25/2014	*
167	Powerton	MW-05	manganese	0.510	0.150	12/15/2010	*
168	Powerton	MW-05	manganese	0.490	0.150	3/25/2011	*
169	Powerton	MW-05	manganese	0.480	0.150	6/16/2011	*
170	Powerton	MW-05	manganese	0.640	0.150	9/20/2011	*
171	Powerton	MW-05	manganese	0.500	0.150	12/12/2011	*
172	Powerton	MW-05	manganese	0.260	0.150	3/19/2012	*
173	Powerton	MW-05	manganese	0.410	0.150	6/25/2012	*
174	Powerton	MW-05	manganese	1.000	0.150	9/18/2012	*
175	Powerton	MW-05	manganese	0.590	0.150	12/12/2012	*
176	Powerton	MW-05	manganese	0.210	0.150	2/27/2013	*
177	Powerton	MW-05	manganese	0.670	0.150	5/29/2013	*
178	Powerton	MW-05	manganese	0.290	0.150	7/31/2013	*
179	Powerton	MW-05	manganese	0.620	0.150	10/21/2013	*
180	Powerton	MW-06	arsenic	0.200	0.010	5/29/2014	*
181	Powerton	MW-06	chloride	210.000	200.000	9/20/2011	*
182	Powerton	MW-06	chloride	240.000	200.000	12/12/2012	*
183	Powerton	MW-06	chloride	210.000	200.000	10/23/2013	*
184	Powerton	MW-06	chloride	230.000	200.000	3/6/2014	*
185	Powerton	MW-06	chloride	230.000	200.000	5/29/2014	*
186	Powerton	MW-06	chloride	230.000	200.000	8/27/2014	*
187	Powerton	MW-06	iron	22.000	5.000	5/29/2014	*
188	Powerton	MW-06	manganese	0.680	0.150	12/15/2010	*
189	Powerton	MW-06	manganese	0.680	0.150	3/25/2011	*
190	Powerton	MW-06	manganese	0.630	0.150	6/16/2011	*
191	Powerton	MW-06	manganese	0.660	0.150	9/20/2011	*
192	Powerton	MW-06	manganese	0.630	0.150	12/12/2011	*
193	Powerton	MW-06	manganese	0.610	0.150	3/19/2012	*
194	Powerton	MW-06	manganese	0.710	0.150	6/25/2012	*
195	Powerton	MW-06	manganese	0.640	0.150	9/18/2012	*
196	Powerton	MW-06	manganese	0.610	0.150	12/12/2012	*
197	Powerton	MW-06	manganese	0.500	0.150	2/27/2013	*
198	Powerton	MW-06	manganese	1.300	0.150	5/29/2013	*
199	Powerton	MW-06	manganese	0.700	0.150	7/31/2013	*
200	Powerton	MW-06	manganese	0.580	0.150	10/23/2013	*
201	Powerton	MW-06	manganese	0.680	0.150	3/6/2014	*
202	Powerton	MW-06	manganese	8.000	0.150	5/29/2014	*

203	Powerton	MW-06	manganese	0.710	0.150	8/27/2014	*
204	Powerton	MW-06	sulfate	450.000	400.000	6/25/2012	*
205	Powerton	MW-06	sulfate	440.000	400.000	12/12/2012	*
206	Powerton	MW-06	sulfate	560.000	400.000	5/29/2013	*
207	Powerton	MW-06	sulfate	440.000	400.000	7/31/2013	*
208	Powerton	MW-06	sulfate	410.000	400.000	3/6/2014	*
209	Powerton	MW-06	sulfate	530.000	400.000	5/29/2014	*
210	Powerton	MW-06	TDS	1300.000	1200.000	6/25/2012	*
211	Powerton	MW-06	TDS	1400.000	1200.000	5/29/2013	*
212	Powerton	MW-06	TDS	1400.000	1200.000	5/29/2014	*
213	Powerton	MW-06	TDS	1300.000	1200.000	8/27/2014	*
214	Powerton	MW-07	arsenic	0.026	0.010	12/6/2010	*
215	Powerton	MW-07	arsenic	0.085	0.010	3/25/2011	*
216	Powerton	MW-07	arsenic	0.120	0.010	6/16/2011	*
217	Powerton	MW-07	arsenic	0.180	0.010	9/20/2011	*
218	Powerton	MW-07	arsenic	0.230	0.010	12/12/2011	*
219	Powerton	MW-07	arsenic	0.230	0.010	3/19/2012	*
220	Powerton	MW-07	arsenic	0.150	0.010	6/25/2012	*
221	Powerton	MW-07	arsenic	0.180	0.010	9/18/2012	*
222	Powerton	MW-07	arsenic	0.260	0.010	12/12/2012	*
223	Powerton	MW-07	arsenic	0.170	0.010	2/27/2013	*
224	Powerton	MW-07	arsenic	0.120	0.010	5/31/2013	*
225	Powerton	MW-07	arsenic	0.220	0.010	7/31/2013	*
226	Powerton	MW-07	arsenic	0.200	0.010	10/23/2013	*
227	Powerton	MW-07	arsenic	0.150	0.010	3/5/2014	*
228	Powerton	MW-07	arsenic	0.190	0.010	8/27/2014	*
229	Powerton	MW-07	iron	8.000	5.000	12/6/2010	*
230	Powerton	MW-07	iron	7.500	5.000	3/25/2011	*
231	Powerton	MW-07	iron	10.000	5.000	6/16/2011	*
232	Powerton	MW-07	iron	22.000	5.000	9/20/2011	*
233	Powerton	MW-07	iron	26.000	5.000	12/12/2011	*
234	Powerton	MW-07	iron	31.000	5.000	3/19/2012	*
235	Powerton	MW-07	iron	10.000	5.000	6/25/2012	*
236	Powerton	MW-07	iron	21.000	5.000	9/18/2012	*
237	Powerton	MW-07	iron	18.000	5.000	12/12/2012	*
238	Powerton	MW-07	iron	27.000	5.000	2/27/2013	*
239	Powerton	MW-07	iron	15.000	5.000	5/31/2013	*
240	Powerton	MW-07	iron	30.000	5.000	7/31/2013	*
241	Powerton	MW-07	iron	20.000	5.000	10/23/2013	*
242	Powerton	MW-07	iron	17.000	5.000	3/5/2014	*
243	Powerton	MW-07	iron	14.000	5.000	8/27/2014	*
244	Powerton	MW-07	manganese	3.500	0.150	12/6/2010	*
245	Powerton	MW-07	manganese	5.900	0.150	3/25/2011	*
246	Powerton	MW-07	manganese	6.400	0.150	6/16/2011	*
247	Powerton	MW-07	manganese	12.000	0.150	9/20/2011	*
248	Powerton	MW-07	manganese	12.000	0.150	12/12/2011	*
249	Powerton	MW-07	manganese	11.000	0.150	3/19/2012	*
250	Powerton	MW-07	manganese	9.300	0.150	6/25/2012	*
251	Powerton	MW-07	manganese	8.000	0.150	9/18/2012	*
252	Powerton	MW-07	manganese	6.700	0.150	12/12/2012	*
253	Powerton	MW-07	manganese	9.500	0.150	2/27/2013	*
254	Powerton	MW-07	manganese	5.700	0.150	5/31/2013	*

255	Powerton	MW-07	manganese	11.000	0.150	7/31/2013	*
256	Powerton	MW-07	manganese	5.900	0.150	10/23/2013	*
257	Powerton	MW-07	manganese	5.800	0.150	3/5/2014	*
258	Powerton	MW-07	manganese	0.330	0.150	5/29/2014	*
259	Powerton	MW-07	manganese	6.600	0.150	8/27/2014	*
260	Powerton	MW-07	sulfate	530.000	400.000	5/29/2014	*
261	Powerton	MW-07	TDS	1300.000	1200.000	6/16/2011	*
262	Powerton	MW-07	TDS	1300.000	1200.000	9/20/2011	*
263	Powerton	MW-07	TDS	1300.000	1200.000	12/12/2011	*
264	Powerton	MW-07	TDS	1400.000	1200.000	3/19/2012	*
265	Powerton	MW-07	TDS	1300.000	1200.000	6/25/2012	*
266	Powerton	MW-07	TDS	1300.000	1200.000	9/18/2012	*
267	Powerton	MW-07	TDS	1300.000	1200.000	7/31/2013	*
268	Powerton	MW-07	TDS	1400.000	1200.000	5/29/2014	*
269	Powerton	MW-07	TDS	1300.000	1200.000	8/27/2014	*
270	Powerton	MW-08	chloride	210.000	200.000	3/25/2011	*
271	Powerton	MW-08	chloride	210.000	200.000	9/20/2011	*
272	Powerton	MW-08	chloride	210.000	200.000	9/18/2012	*
273	Powerton	MW-08	chloride	220.000	200.000	12/12/2012	*
274	Powerton	MW-08	chloride	230.000	200.000	5/30/2013	*
275	Powerton	MW-08	chloride	220.000	200.000	7/31/2013	*
276	Powerton	MW-08	chloride	260.000	200.000	10/23/2013	*
277	Powerton	MW-08	chloride	230.000	200.000	3/3/2014	*
278	Powerton	MW-08	chloride	340.000	200.000	5/28/2014	*
279	Powerton	MW-08	chloride	380.000	200.000	8/27/2014	*
280	Powerton	MW-08	iron	6.500	5.000	2/27/2013	*
281	Powerton	MW-08	iron	6.600	5.000	7/31/2013	*
282	Powerton	MW-08	manganese	0.270	0.150	3/25/2011	*
283	Powerton	MW-08	manganese	0.290	0.150	6/16/2011	*
284	Powerton	MW-08	manganese	0.180	0.150	9/20/2011	*
285	Powerton	MW-08	manganese	0.200	0.150	12/12/2011	*
286	Powerton	MW-08	manganese	0.270	0.150	3/19/2012	*
287	Powerton	MW-08	manganese	0.200	0.150	6/25/2012	*
288	Powerton	MW-08	manganese	0.200	0.150	9/18/2012	*
289	Powerton	MW-08	manganese	0.230	0.150	12/12/2012	*
290	Powerton	MW-08	manganese	0.430	0.150	2/27/2013	*
291	Powerton	MW-08	manganese	0.250	0.150	5/30/2013	*
292	Powerton	MW-08	manganese	0.480	0.150	7/31/2013	*
293	Powerton	MW-08	manganese	0.160	0.150	10/23/2013	*
294	Powerton	MW-08	manganese	0.200	0.150	3/3/2014	*
295	Powerton	MW-08	manganese	0.700	0.150	5/28/2014	*
296	Powerton	MW-08	manganese	0.170	0.150	8/27/2014	*
297	Powerton	MW-08	sulfate	440.000	400.000	6/25/2012	*
298	Powerton	MW-08	sulfate	460.000	400.000	5/30/2013	*
299	Powerton	MW-08	TDS	1300.000	1200.000	5/30/2013	*
300	Powerton	MW-08	TDS	1300.000	1200.000	7/31/2013	*
301	Powerton	MW-08	TDS	1300.000	1200.000	10/23/2013	*
302	Powerton	MW-08	TDS	1400.000	1200.000	5/28/2014	*
303	Powerton	MW-08	TDS	1400.000	1200.000	8/27/2014	*
304	Powerton	MW-09	boron	2.100	2.000	12/16/2010	*
305	Powerton	MW-09	boron	2.500	2.000	9/20/2011	*
306	Powerton	MW-09	boron	2.700	2.000	12/12/2011	*

307	Powerton	MW-09	boron	2.600	2.000	3/19/2012	*
308	Powerton	MW-09	boron	2.600	2.000	6/25/2012	*
309	Powerton	MW-09	boron	2.900	2.000	9/18/2012	*
310	Powerton	MW-09	boron	3.200	2.000	12/12/2012	*
311	Powerton	MW-09	boron	4.300	2.000	2/27/2013	*
312	Powerton	MW-09	boron	3.200	2.000	5/30/2013	*
313	Powerton	MW-09	boron	2.500	2.000	7/30/2013	*
314	Powerton	MW-09	boron	2.500	2.000	5/29/2014	*
315	Powerton	MW-09	boron	2.400	2.000	8/26/2014	*
316	Powerton	MW-09	iron	24.000	5.000	2/27/2013	*
317	Powerton	MW-09	manganese	0.230	0.150	12/16/2010	*
318	Powerton	MW-09	manganese	0.450	0.150	3/25/2011	*
319	Powerton	MW-09	manganese	0.480	0.150	6/16/2011	*
320	Powerton	MW-09	manganese	0.280	0.150	12/12/2011	*
321	Powerton	MW-09	manganese	0.220	0.150	3/19/2012	*
322	Powerton	MW-09	manganese	0.340	0.150	6/25/2012	*
323	Powerton	MW-09	manganese	0.190	0.150	2/27/2013	*
324	Powerton	MW-09	manganese	0.840	0.150	3/3/2014	*
325	Powerton	MW-09	manganese	0.360	0.150	5/29/2014	*
326	Powerton	MW-09	Nitrogen/Nitra	12.000	10.000	2/27/2013	*
327	Powerton	MW-09	Nitrogen/Nitra	11.000	10.000	5/30/2013	*
328	Powerton	MW-09	Nitrogen/Nitra	11.000	10.000	5/29/2014	*
329	Powerton	MW-10	boron	2.100	2.000	3/6/2014	*
330	Powerton	MW-10	boron	3.200	2.000	5/30/2014	*
331	Powerton	MW-10	manganese	2.100	0.150	12/15/2010	*
332	Powerton	MW-10	manganese	2.800	0.150	3/25/2011	*
333	Powerton	MW-10	manganese	3.800	0.150	6/16/2011	*
334	Powerton	MW-10	manganese	2.300	0.150	9/20/2011	*
335	Powerton	MW-10	manganese	2.300	0.150	12/12/2011	*
336	Powerton	MW-10	manganese	2.300	0.150	3/19/2012	*
337	Powerton	MW-10	manganese	2.600	0.150	6/25/2012	*
338	Powerton	MW-10	manganese	2.500	0.150	9/18/2012	*
339	Powerton	MW-10	manganese	2.200	0.150	12/12/2012	*
340	Powerton	MW-10	manganese	1.900	0.150	2/27/2013	*
341	Powerton	MW-10	manganese	3.200	0.150	5/29/2013	*
342	Powerton	MW-10	manganese	1.500	0.150	7/31/2013	*
343	Powerton	MW-10	manganese	2.000	0.150	10/23/2013	*
344	Powerton	MW-10	manganese	3.100	0.150	3/6/2014	*
345	Powerton	MW-10	manganese	1.600	0.150	5/30/2014	*
346	Powerton	MW-10	manganese	2.100	0.150	8/28/2014	*
347	Powerton	MW-11	arsenic	0.030	0.010	12/12/2012	*
348	Powerton	MW-11	arsenic	0.045	0.010	2/27/2013	*
349	Powerton	MW-11	arsenic	0.028	0.010	5/30/2013	*
350	Powerton	MW-11	arsenic	0.038	0.010	7/30/2013	*
351	Powerton	MW-11	arsenic	0.038	0.010	10/22/2013	*
352	Powerton	MW-11	arsenic	0.057	0.010	3/4/2014	*
353	Powerton	MW-11	arsenic	0.036	0.010	5/29/2014	*
354	Powerton	MW-11	arsenic	0.068	0.010	8/26/2014	*
355	Powerton	MW-11	boron	2.300	2.000	3/19/2012	*
356	Powerton	MW-11	boron	2.600	2.000	9/18/2012	*
357	Powerton	MW-11	iron	5.800	5.000	3/4/2014	*
358	Powerton	MW-11	iron	5.500	5.000	8/26/2014	*

359	Powerton	MW-11	manganese	3.200	0.150	12/16/2010	*
360	Powerton	MW-11	manganese	3.600	0.150	2/15/2011	*
361	Powerton	MW-11	manganese	2.900	0.150	6/16/2011	*
362	Powerton	MW-11	manganese	2.200	0.150	9/19/2011	*
363	Powerton	MW-11	manganese	2.500	0.150	12/12/2011	*
364	Powerton	MW-11	manganese	2.900	0.150	3/19/2012	*
365	Powerton	MW-11	manganese	3.700	0.150	6/25/2012	*
366	Powerton	MW-11	manganese	4.700	0.150	9/18/2012	*
367	Powerton	MW-11	manganese	12.000	0.150	12/12/2012	*
368	Powerton	MW-11	manganese	11.000	0.150	2/27/2013	*
369	Powerton	MW-11	manganese	7.500	0.150	5/30/2013	*
370	Powerton	MW-11	manganese	8.000	0.150	7/30/2013	*
371	Powerton	MW-11	manganese	7.300	0.150	10/22/2013	*
372	Powerton	MW-11	manganese	7.900	0.150	3/4/2014	*
373	Powerton	MW-11	manganese	8.000	0.150	5/29/2014	*
374	Powerton	MW-11	manganese	8.400	0.150	8/26/2014	*
375	Powerton	MW-12	arsenic	0.013	0.010	2/15/2011	*
376	Powerton	MW-12	arsenic	0.014	0.010	6/25/2012	*
377	Powerton	MW-12	arsenic	0.011	0.010	9/18/2012	*
378	Powerton	MW-12	arsenic	0.022	0.010	12/12/2012	*
379	Powerton	MW-12	arsenic	0.016	0.010	7/29/2013	*
380	Powerton	MW-12	arsenic	0.018	0.010	10/22/2013	*
381	Powerton	MW-12	boron	3.700	2.000	5/30/2013	*
382	Powerton	MW-12	chloride	210.000	200.000	12/12/2011	*
383	Powerton	MW-12	chloride	210.000	200.000	12/12/2012	*
384	Powerton	MW-12	chloride	220.000	200.000	3/4/2014	*
385	Powerton	MW-12	chloride	220.000	200.000	5/29/2014	*
386	Powerton	MW-12	chloride	210.000	200.000	8/26/2014	*
387	Powerton	MW-12	iron	5.500	5.000	12/16/2010	*
388	Powerton	MW-12	iron	6.300	5.000	2/15/2011	*
389	Powerton	MW-12	iron	5.600	5.000	6/16/2011	*
390	Powerton	MW-12	iron	8.200	5.000	6/25/2012	*
391	Powerton	MW-12	iron	8.900	5.000	9/18/2012	*
392	Powerton	MW-12	iron	6.400	5.000	12/12/2012	*
393	Powerton	MW-12	iron	5.800	5.000	2/27/2013	*
394	Powerton	MW-12	iron	8.900	5.000	5/30/2013	*
395	Powerton	MW-12	manganese	0.320	0.150	12/16/2010	*
396	Powerton	MW-12	manganese	0.580	0.150	2/15/2011	*
397	Powerton	MW-12	manganese	0.260	0.150	6/16/2011	*
398	Powerton	MW-12	manganese	0.370	0.150	9/19/2011	*
399	Powerton	MW-12	manganese	0.250	0.150	12/12/2011	*
400	Powerton	MW-12	manganese	0.710	0.150	6/25/2012	*
401	Powerton	MW-12	manganese	0.640	0.150	9/18/2012	*
402	Powerton	MW-12	manganese	1.700	0.150	12/12/2012	*
403	Powerton	MW-12	manganese	0.380	0.150	2/27/2013	*
404	Powerton	MW-12	manganese	0.240	0.150	5/30/2013	*
405	Powerton	MW-12	manganese	1.300	0.150	7/29/2013	*
406	Powerton	MW-12	manganese	1.500	0.150	10/22/2013	*
407	Powerton	MW-12	manganese	0.230	0.150	3/4/2014	*
408	Powerton	MW-12	manganese	0.650	0.150	5/29/2014	*
409	Powerton	MW-12	manganese	1.200	0.150	8/26/2014	*
410	Powerton	MW-12	sulfate	430.000	400.000	6/25/2012	*

411	Powerton	MW-12	sulfate	410.000	400.000	5/30/2013	*
412	Powerton	MW-12	sulfate	420.000	400.000	7/29/2013	*
413	Powerton	MW-12	sulfate	530.000	400.000	3/4/2014	*
414	Powerton	MW-12	sulfate	560.000	400.000	5/29/2014	*
415	Powerton	MW-12	TDS	1400.000	1200.000	3/4/2014	*
416	Powerton	MW-12	TDS	1300.000	1200.000	5/29/2014	*
417	Powerton	MW-13	arsenic	0.011	0.010	12/15/2010	*
418	Powerton	MW-13	arsenic	0.023	0.010	12/12/2011	*
419	Powerton	MW-13	arsenic	0.027	0.010	4/10/2012	*
420	Powerton	MW-13	arsenic	0.041	0.010	12/14/2012	*
421	Powerton	MW-13	arsenic	0.029	0.010	2/28/2013	*
422	Powerton	MW-13	arsenic	0.031	0.010	5/30/2013	*
423	Powerton	MW-13	arsenic	0.029	0.010	7/30/2013	*
424	Powerton	MW-13	arsenic	0.024	0.010	10/22/2013	*
425	Powerton	MW-13	arsenic	0.028	0.010	3/4/2014	*
426	Powerton	MW-13	arsenic	0.024	0.010	5/28/2014	*
427	Powerton	MW-13	arsenic	0.031	0.010	8/27/2014	*
428	Powerton	MW-13	boron	3.900	2.000	12/15/2010	*
429	Powerton	MW-13	boron	3.100	2.000	2/15/2011	*
430	Powerton	MW-13	boron	2.600	2.000	4/25/2011	*
431	Powerton	MW-13	boron	3.000	2.000	6/16/2011	*
432	Powerton	MW-13	boron	2.700	2.000	8/9/2011	*
433	Powerton	MW-13	boron	3.000	2.000	10/13/2011	*
434	Powerton	MW-13	boron	4.100	2.000	12/12/2011	*
435	Powerton	MW-13	boron	4.000	2.000	4/10/2012	*
436	Powerton	MW-13	boron	3.600	2.000	12/14/2012	*
437	Powerton	MW-13	boron	4.200	2.000	2/28/2013	*
438	Powerton	MW-13	boron	3.800	2.000	7/30/2013	*
439	Powerton	MW-13	boron	3.500	2.000	10/22/2013	*
440	Powerton	MW-13	boron	2.900	2.000	3/4/2014	*
441	Powerton	MW-13	boron	3.500	2.000	5/28/2014	*
442	Powerton	MW-13	boron	3.000	2.000	8/27/2014	*
443	Powerton	MW-13	chloride	210.000	200.000	12/14/2012	*
444	Powerton	MW-13	manganese	5.000	0.150	12/15/2010	*
445	Powerton	MW-13	manganese	3.800	0.150	2/15/2011	*
446	Powerton	MW-13	manganese	2.700	0.150	4/25/2011	*
447	Powerton	MW-13	manganese	2.900	0.150	6/16/2011	*
448	Powerton	MW-13	manganese	2.600	0.150	8/9/2011	*
449	Powerton	MW-13	manganese	3.600	0.150	10/13/2011	*
450	Powerton	MW-13	manganese	3.500	0.150	12/12/2011	*
451	Powerton	MW-13	manganese	3.500	0.150	4/10/2012	*
452	Powerton	MW-13	manganese	3.700	0.150	12/14/2012	*
453	Powerton	MW-13	manganese	3.500	0.150	2/28/2013	*
454	Powerton	MW-13	manganese	3.800	0.150	5/30/2013	*
455	Powerton	MW-13	manganese	4.000	0.150	7/30/2013	*
456	Powerton	MW-13	manganese	2.800	0.150	10/22/2013	*
457	Powerton	MW-13	manganese	2.900	0.150	3/4/2014	*
458	Powerton	MW-13	manganese	3.400	0.150	5/28/2014	*
459	Powerton	MW-13	manganese	3.500	0.150	8/27/2014	*
460	Powerton	MW-13	sulfate	1400.000	400.000	12/15/2010	*
461	Powerton	MW-13	sulfate	770.000	400.000	2/15/2011	*
462	Powerton	MW-13	sulfate	580.000	400.000	4/25/2011	*

463	Powerton	MW-13	sulfate	540.000	400.000	6/16/2011	*
464	Powerton	MW-13	sulfate	440.000	400.000	8/9/2011	*
465	Powerton	MW-13	sulfate	660.000	400.000	10/13/2011	*
466	Powerton	MW-13	sulfate	1100.000	400.000	12/12/2011	*
467	Powerton	MW-13	sulfate	1100.000	400.000	4/10/2012	*
468	Powerton	MW-13	sulfate	1100.000	400.000	12/14/2012	*
469	Powerton	MW-13	sulfate	730.000	400.000	2/28/2013	*
470	Powerton	MW-13	sulfate	880.000	400.000	5/30/2013	*
471	Powerton	MW-13	sulfate	1000.000	400.000	7/30/2013	*
472	Powerton	MW-13	sulfate	690.000	400.000	10/22/2013	*
473	Powerton	MW-13	sulfate	660.000	400.000	3/4/2014	*
474	Powerton	MW-13	sulfate	630.000	400.000	5/28/2014	*
475	Powerton	MW-13	sulfate	740.000	400.000	8/27/2014	*
476	Powerton	MW-13	TDS	2600.000	1200.000	12/15/2010	*
477	Powerton	MW-13	TDS	1600.000	1200.000	2/15/2011	*
478	Powerton	MW-13	TDS	1400.000	1200.000	4/25/2011	*
479	Powerton	MW-13	TDS	1300.000	1200.000	6/16/2011	*
480	Powerton	MW-13	TDS	1500.000	1200.000	10/13/2011	*
481	Powerton	MW-13	TDS	2100.000	1200.000	12/12/2011	*
482	Powerton	MW-13	TDS	2300.000	1200.000	4/10/2012	*
483	Powerton	MW-13	TDS	1900.000	1200.000	12/14/2012	*
484	Powerton	MW-13	TDS	1600.000	1200.000	2/28/2013	*
485	Powerton	MW-13	TDS	2000.000	1200.000	5/30/2013	*
486	Powerton	MW-13	TDS	2000.000	1200.000	7/30/2013	*
487	Powerton	MW-13	TDS	1700.000	1200.000	10/22/2013	*
488	Powerton	MW-13	TDS	1900.000	1200.000	3/4/2014	*
489	Powerton	MW-13	TDS	2100.000	1200.000	5/28/2014	*
490	Powerton	MW-13	TDS	2300.000	1200.000	8/27/2014	*
491	Powerton	MW-14	arsenic	0.024	0.010	12/15/2010	*
492	Powerton	MW-14	arsenic	0.019	0.010	2/15/2011	*
493	Powerton	MW-14	arsenic	0.015	0.010	10/13/2011	*
494	Powerton	MW-14	chloride	240.000	200.000	8/9/2011	*
495	Powerton	MW-14	chloride	220.000	200.000	3/4/2014	*
496	Powerton	MW-14	iron	12.000	5.000	12/14/2012	*
497	Powerton	MW-14	manganese	0.680	0.150	12/15/2010	*
498	Powerton	MW-14	manganese	0.810	0.150	2/15/2011	*
499	Powerton	MW-14	manganese	0.290	0.150	4/25/2011	*
500	Powerton	MW-14	manganese	0.360	0.150	6/16/2011	*
501	Powerton	MW-14	manganese	0.570	0.150	8/9/2011	*
502	Powerton	MW-14	manganese	0.840	0.150	10/13/2011	*
503	Powerton	MW-14	manganese	0.630	0.150	4/10/2012	*
504	Powerton	MW-14	manganese	0.720	0.150	5/30/2013	*
505	Powerton	MW-14	manganese	0.320	0.150	7/30/2013	*
506	Powerton	MW-14	manganese	1.200	0.150	10/23/2013	*
507	Powerton	MW-14	manganese	1.300	0.150	3/4/2014	*
508	Powerton	MW-14	manganese	0.340	0.150	5/28/2014	*
509	Powerton	MW-14	manganese	1.800	0.150	8/28/2014	*
510	Powerton	MW-14	selenium	0.065	0.050	4/25/2011	*
511	Powerton	MW-14	selenium	0.150	0.050	2/27/2013	*
512	Powerton	MW-14	sulfate	960.000	400.000	12/15/2010	*
513	Powerton	MW-14	sulfate	820.000	400.000	2/15/2011	*
514	Powerton	MW-14	sulfate	770.000	400.000	4/25/2011	*

515	Powerton	MW-14	sulfate	810.000	400.000	6/16/2011 *
516	Powerton	MW-14	sulfate	940.000	400.000	8/9/2011 *
517	Powerton	MW-14	sulfate	850.000	400.000	10/13/2011 *
518	Powerton	MW-14	sulfate	880.000	400.000	12/12/2011 *
519	Powerton	MW-14	sulfate	990.000	400.000	4/10/2012 *
520	Powerton	MW-14	sulfate	810.000	400.000	12/14/2012 *
521	Powerton	MW-14	sulfate	800.000	400.000	5/30/2013 *
522	Powerton	MW-14	sulfate	900.000	400.000	7/30/2013 *
523	Powerton	MW-14	sulfate	840.000	400.000	10/23/2013 *
524	Powerton	MW-14	sulfate	680.000	400.000	3/4/2014 *
525	Powerton	MW-14	sulfate	720.000	400.000	5/28/2014 *
526	Powerton	MW-14	sulfate	1100.000	400.000	8/28/2014 *
527	Powerton	MW-14	TDS	1800.000	1200.000	12/15/2010 *
528	Powerton	MW-14	TDS	1700.000	1200.000	2/15/2011 *
529	Powerton	MW-14	TDS	1800.000	1200.000	4/25/2011 *
530	Powerton	MW-14	TDS	1900.000	1200.000	6/16/2011 *
531	Powerton	MW-14	TDS	2000.000	1200.000	8/9/2011 *
532	Powerton	MW-14	TDS	1800.000	1200.000	10/13/2011 *
533	Powerton	MW-14	TDS	1800.000	1200.000	12/12/2011 *
534	Powerton	MW-14	TDS	2200.000	1200.000	4/10/2012 *
535	Powerton	MW-14	TDS	1700.000	1200.000	12/14/2012 *
536	Powerton	MW-14	TDS	1300.000	1200.000	2/27/2013 *
537	Powerton	MW-14	TDS	2000.000	1200.000	5/30/2013 *
538	Powerton	MW-14	TDS	2100.000	1200.000	7/30/2013 *
539	Powerton	MW-14	TDS	2100.000	1200.000	10/23/2013 *
540	Powerton	MW-14	TDS	1900.000	1200.000	3/4/2014 *
541	Powerton	MW-14	TDS	1700.000	1200.000	5/28/2014 *
542	Powerton	MW-14	TDS	2400.000	1200.000	8/28/2014 *
543	Powerton	MW-14	thallium	0.004	0.002	4/25/2011 *
544	Powerton	MW-14	thallium	0.004	0.002	6/16/2011 *
545	Powerton	MW-14	thallium	0.003	0.002	8/9/2011 *
546	Powerton	MW-14	thallium	0.003	0.002	4/10/2012 *
547	Powerton	MW-14	thallium	0.003	0.002	12/14/2012 *
548	Powerton	MW-14	thallium	0.003	0.002	5/30/2013 *
549	Powerton	MW-14	thallium	0.004	0.002	7/30/2013 *
550	Powerton	MW-14	thallium	0.003	0.002	5/28/2014 *
551	Powerton	MW-15	arsenic	0.011	0.010	10/13/2011 *
552	Powerton	MW-15	arsenic	0.011	0.010	12/14/2012 *
553	Powerton	MW-15	chloride	210.000	200.000	8/9/2011 *
554	Powerton	MW-15	chloride	220.000	200.000	12/14/2012 *
555	Powerton	MW-15	chloride	210.000	200.000	5/30/2013 *
556	Powerton	MW-15	chloride	220.000	200.000	7/30/2013 *
557	Powerton	MW-15	chloride	210.000	200.000	10/23/2013 *
558	Powerton	MW-15	chloride	240.000	200.000	3/6/2014 *
559	Powerton	MW-15	chloride	220.000	200.000	5/28/2014 *
560	Powerton	MW-15	chloride	240.000	200.000	8/27/2014 *
561	Powerton	MW-15	manganese	0.560	0.150	12/15/2010 *
562	Powerton	MW-15	manganese	0.420	0.150	2/15/2011 *
563	Powerton	MW-15	manganese	0.360	0.150	4/25/2011 *
564	Powerton	MW-15	manganese	0.600	0.150	6/16/2011 *
565	Powerton	MW-15	manganese	0.370	0.150	8/9/2011 *
566	Powerton	MW-15	manganese	0.480	0.150	10/13/2011 *

567	Powerton	MW-15	manganese	0.390	0.150	12/12/2011	*
568	Powerton	MW-15	manganese	0.250	0.150	4/10/2012	*
569	Powerton	MW-15	manganese	0.510	0.150	12/14/2012	*
570	Powerton	MW-15	manganese	0.350	0.150	2/28/2013	*
571	Powerton	MW-15	manganese	0.270	0.150	5/30/2013	*
572	Powerton	MW-15	manganese	0.300	0.150	7/30/2013	*
573	Powerton	MW-15	manganese	0.430	0.150	10/23/2013	*
574	Powerton	MW-15	manganese	0.590	0.150	3/6/2014	*
575	Powerton	MW-15	manganese	0.300	0.150	5/28/2014	*
576	Powerton	MW-15	manganese	0.950	0.150	8/27/2014	*
577	Powerton	MW-15	sulfate	650.000	400.000	6/16/2011	*
578	Powerton	MW-15	sulfate	570.000	400.000	5/30/2013	*
579	Powerton	MW-15	sulfate	460.000	400.000	7/30/2013	*
580	Powerton	MW-15	sulfate	420.000	400.000	10/23/2013	*
581	Powerton	MW-15	sulfate	620.000	400.000	8/27/2014	*
582	Powerton	MW-15	TDS	1600.000	1200.000	6/16/2011	*
583	Powerton	MW-15	TDS	1700.000	1200.000	5/30/2013	*
584	Powerton	MW-15	TDS	1400.000	1200.000	7/30/2013	*
585	Powerton	MW-15	TDS	1400.000	1200.000	10/23/2013	*
586	Powerton	MW-15	TDS	1300.000	1200.000	3/6/2014	*
587	Powerton	MW-15	TDS	1300.000	1200.000	5/28/2014	*
588	Powerton	MW-15	TDS	1800.000	1200.000	8/27/2014	*
589	Powerton	MW-16	chloride	230.000	200.000	3/3/2014	*
590	Powerton	MW-16	Nitrogen/Nitra	18.000	10.000	12/12/2012	*
591	Powerton	MW-16	Nitrogen/Nitra	23.000	10.000	2/28/2013	*
592	Powerton	MW-16	Nitrogen/Nitra	20.000	10.000	5/29/2013	*
593	Powerton	MW-16	Nitrogen/Nitra	13.000	10.000	7/29/2013	*
594	Powerton	MW-16	Nitrogen/Nitra	19.000	10.000	10/22/2013	*
595	Powerton	MW-16	Nitrogen/Nitra	16.000	10.000	3/3/2014	*
596	Powerton	MW-16	Nitrogen/Nitra	21.000	10.000	5/30/2014	*
597	Powerton	MW-16	Nitrogen/Nitra	22.000	10.000	8/26/2014	*
598	Waukegan	MW-01	arsenic	0.054	0.010	10/25/2010	*
599	Waukegan	MW-01	arsenic	0.170	0.010	6/13/2011	*
600	Waukegan	MW-01	arsenic	0.077	0.010	9/13/2011	*
601	Waukegan	MW-01	arsenic	0.057	0.010	12/6/2011	*
602	Waukegan	MW-01	arsenic	0.078	0.010	3/14/2012	*
603	Waukegan	MW-01	arsenic	0.070	0.010	6/18/2012	*
604	Waukegan	MW-01	arsenic	0.070	0.010	9/28/2012	*
605	Waukegan	MW-01	arsenic	0.091	0.010	12/19/2012	*
606	Waukegan	MW-01	arsenic	0.098	0.010	3/7/2013	*
607	Waukegan	MW-01	arsenic	0.036	0.010	6/7/2013	*
608	Waukegan	MW-01	arsenic	0.055	0.010	7/25/2013	*
609	Waukegan	MW-01	arsenic	0.046	0.010	11/4/2013	*
610	Waukegan	MW-01	boron	2.600	2.000	10/25/2010	*
611	Waukegan	MW-01	boron	2.600	2.000	6/13/2011	*
612	Waukegan	MW-01	boron	2.500	2.000	9/13/2011	*
613	Waukegan	MW-01	boron	2.800	2.000	12/6/2011	*
614	Waukegan	MW-01	boron	2.500	2.000	3/14/2012	*
615	Waukegan	MW-01	boron	2.200	2.000	3/7/2013	*
616	Waukegan	MW-01	boron	2.200	2.000	6/7/2013	*
617	Waukegan	MW-01	boron	2.300	2.000	7/25/2013	*
618	Waukegan	MW-01	boron	3.100	2.000	11/4/2013	*

619	Waukegan	MW-01	selenium	0.056	0.050	3/7/2013	*
620	Waukegan	MW-02	antimony	0.015	0.006	10/25/2010	*
621	Waukegan	MW-02	arsenic	0.025	0.010	10/25/2010	*
622	Waukegan	MW-02	arsenic	0.016	0.010	3/24/2011	*
623	Waukegan	MW-02	arsenic	0.011	0.010	6/18/2012	*
624	Waukegan	MW-02	arsenic	0.011	0.010	9/28/2012	*
625	Waukegan	MW-02	arsenic	0.012	0.010	3/7/2013	*
626	Waukegan	MW-02	boron	2.200	2.000	10/25/2010	*
627	Waukegan	MW-02	boron	2.200	2.000	3/24/2011	*
628	Waukegan	MW-02	boron	2.600	2.000	6/18/2012	*
629	Waukegan	MW-02	boron	2.100	2.000	9/28/2012	*
630	Waukegan	MW-02	boron	2.200	2.000	3/7/2013	*
631	Waukegan	MW-02	boron	2.100	2.000	7/25/2013	*
632	Waukegan	MW-02	boron	2.200	2.000	11/4/2013	*
633	Waukegan	MW-03	arsenic	0.011	0.010	12/19/2012	*
634	Waukegan	MW-03	boron	2.200	2.000	3/24/2011	*
635	Waukegan	MW-03	boron	2.300	2.000	6/13/2011	*
636	Waukegan	MW-03	boron	2.500	2.000	6/7/2013	*
637	Waukegan	MW-03	Nitrogen/Nitra	13.000	10.000	6/7/2013	*
638	Waukegan	MW-03	selenium	0.067	0.050	6/7/2013	*
639	Waukegan	MW-04	boron	2.100	2.000	3/24/2011	*
640	Waukegan	MW-04	boron	2.100	2.000	12/6/2011	*
641	Waukegan	MW-04	boron	2.200	2.000	3/14/2012	*
642	Waukegan	MW-04	boron	2.500	2.000	6/18/2012	*
643	Waukegan	MW-04	boron	2.200	2.000	9/28/2012	*
644	Waukegan	MW-04	boron	2.500	2.000	12/19/2012	*
645	Waukegan	MW-04	boron	2.400	2.000	3/7/2013	*
646	Waukegan	MW-04	boron	2.300	2.000	6/6/2013	*
647	Waukegan	MW-04	boron	2.500	2.000	7/25/2013	*
648	Waukegan	MW-04	boron	2.800	2.000	11/4/2013	*
649	Waukegan	MW-04	manganese	0.360	0.150	9/13/2011	*
650	Waukegan	MW-05	arsenic	0.012	0.010	9/28/2012	*
651	Waukegan	MW-05	arsenic	0.011	0.010	12/19/2012	*
652	Waukegan	MW-05	arsenic	0.012	0.010	3/7/2013	*
653	Waukegan	MW-05	boron	28.000	2.000	10/25/2010	*
654	Waukegan	MW-05	boron	33.000	2.000	3/24/2011	*
655	Waukegan	MW-05	boron	12.000	2.000	6/13/2011	*
656	Waukegan	MW-05	boron	30.000	2.000	9/13/2011	*
657	Waukegan	MW-05	boron	37.000	2.000	12/6/2011	*
658	Waukegan	MW-05	boron	44.000	2.000	3/14/2012	*
659	Waukegan	MW-05	boron	47.000	2.000	6/18/2012	*
660	Waukegan	MW-05	boron	41.000	2.000	9/28/2012	*
661	Waukegan	MW-05	boron	27.000	2.000	12/19/2012	*
662	Waukegan	MW-05	boron	33.000	2.000	3/7/2013	*
663	Waukegan	MW-05	boron	12.000	2.000	6/6/2013	*
664	Waukegan	MW-05	boron	29.000	2.000	7/25/2013	*
665	Waukegan	MW-05	boron	32.000	2.000	11/5/2013	*
666	Waukegan	MW-05	chloride	540.000	200.000	6/13/2011	*
667	Waukegan	MW-05	chloride	220.000	200.000	9/13/2011	*
668	Waukegan	MW-05	chloride	220.000	200.000	12/19/2012	*
669	Waukegan	MW-05	chloride	600.000	200.000	6/6/2013	*
670	Waukegan	MW-05	chloride	210.000	200.000	7/25/2013	*

671	Waukegan	MW-05	iron	5.600	5.000	12/6/2011 *
672	Waukegan	MW-05	iron	6.600	5.000	3/14/2012 *
673	Waukegan	MW-05	iron	5.900	5.000	6/18/2012 *
674	Waukegan	MW-05	iron	5.100	5.000	9/28/2012 *
675	Waukegan	MW-05	manganese	0.710	0.150	10/25/2010 *
676	Waukegan	MW-05	manganese	0.600	0.150	3/24/2011 *
677	Waukegan	MW-05	manganese	0.280	0.150	6/13/2011 *
678	Waukegan	MW-05	manganese	0.990	0.150	12/6/2011 *
679	Waukegan	MW-05	manganese	0.760	0.150	3/14/2012 *
680	Waukegan	MW-05	manganese	0.750	0.150	6/18/2012 *
681	Waukegan	MW-05	manganese	0.570	0.150	9/28/2012 *
682	Waukegan	MW-05	manganese	0.480	0.150	12/19/2012 *
683	Waukegan	MW-05	manganese	0.510	0.150	3/7/2013 *
684	Waukegan	MW-05	manganese	0.170	0.150	6/6/2013 *
685	Waukegan	MW-05	manganese	0.440	0.150	7/25/2013 *
686	Waukegan	MW-05	manganese	0.540	0.150	11/5/2013 *
687	Waukegan	MW-05	sulfate	920.000	400.000	10/25/2010 *
688	Waukegan	MW-05	sulfate	780.000	400.000	3/24/2011 *
689	Waukegan	MW-05	sulfate	1100.000	400.000	6/13/2011 *
690	Waukegan	MW-05	sulfate	810.000	400.000	9/13/2011 *
691	Waukegan	MW-05	sulfate	1100.000	400.000	12/6/2011 *
692	Waukegan	MW-05	sulfate	980.000	400.000	3/14/2012 *
693	Waukegan	MW-05	sulfate	800.000	400.000	6/18/2012 *
694	Waukegan	MW-05	sulfate	710.000	400.000	9/28/2012 *
695	Waukegan	MW-05	sulfate	550.000	400.000	12/19/2012 *
696	Waukegan	MW-05	sulfate	650.000	400.000	3/7/2013 *
697	Waukegan	MW-05	sulfate	1200.000	400.000	6/6/2013 *
698	Waukegan	MW-05	sulfate	890.000	400.000	7/25/2013 *
699	Waukegan	MW-05	sulfate	870.000	400.000	11/5/2013 *
700	Waukegan	MW-05	TDS	1500.000	1200.000	10/25/2010 *
701	Waukegan	MW-05	TDS	1800.000	1200.000	3/24/2011 *
702	Waukegan	MW-05	TDS	3300.000	1200.000	6/13/2011 *
703	Waukegan	MW-05	TDS	2300.000	1200.000	9/13/2011 *
704	Waukegan	MW-05	TDS	2300.000	1200.000	12/6/2011 *
705	Waukegan	MW-05	TDS	2000.000	1200.000	3/14/2012 *
706	Waukegan	MW-05	TDS	2000.000	1200.000	6/18/2012 *
707	Waukegan	MW-05	TDS	1900.000	1200.000	9/28/2012 *
708	Waukegan	MW-05	TDS	1800.000	1200.000	12/19/2012 *
709	Waukegan	MW-05	TDS	1600.000	1200.000	3/7/2013 *
710	Waukegan	MW-05	TDS	3500.000	1200.000	6/6/2013 *
711	Waukegan	MW-05	TDS	2000.000	1200.000	7/25/2013 *
712	Waukegan	MW-05	TDS	1600.000	1200.000	11/5/2013 *
713	Waukegan	MW-06	boron	2.800	2.000	3/7/2013 *
714	Waukegan	MW-06	boron	6.700	2.000	6/6/2013 *
715	Waukegan	MW-06	boron	4.300	2.000	7/25/2013 *
716	Waukegan	MW-06	boron	2.400	2.000	11/5/2013 *
717	Waukegan	MW-06	iron	6.200	5.000	6/6/2013 *
718	Waukegan	MW-06	iron	16.000	5.000	7/25/2013 *
719	Waukegan	MW-06	manganese	0.210	0.150	12/19/2012 *
720	Waukegan	MW-06	manganese	0.360	0.150	3/7/2013 *
721	Waukegan	MW-06	manganese	0.750	0.150	6/6/2013 *
722	Waukegan	MW-06	manganese	0.720	0.150	7/25/2013 *

723	Waukegan	MW-06	manganese	0.440	0.150	11/5/2013	*
724	Waukegan	MW-07	arsenic	0.012	0.010	3/7/2013	*
725	Waukegan	MW-07	arsenic	0.011	0.010	7/25/2013	*
726	Waukegan	MW-07	arsenic	0.012	0.010	11/4/2013	*
727	Waukegan	MW-07	boron	43.000	2.000	12/19/2012	*
728	Waukegan	MW-07	boron	49.000	2.000	3/7/2013	*
729	Waukegan	MW-07	boron	42.000	2.000	6/6/2013	*
730	Waukegan	MW-07	boron	44.000	2.000	7/25/2013	*
731	Waukegan	MW-07	boron	45.000	2.000	11/4/2013	*
732	Waukegan	MW-07	iron	12.000	5.000	12/19/2012	*
733	Waukegan	MW-07	iron	12.000	5.000	3/7/2013	*
734	Waukegan	MW-07	iron	13.000	5.000	6/6/2013	*
735	Waukegan	MW-07	iron	13.000	5.000	7/25/2013	*
736	Waukegan	MW-07	iron	13.000	5.000	11/4/2013	*
737	Waukegan	MW-07	manganese	0.460	0.150	12/19/2012	*
738	Waukegan	MW-07	manganese	0.490	0.150	3/7/2013	*
739	Waukegan	MW-07	manganese	0.480	0.150	6/6/2013	*
740	Waukegan	MW-07	manganese	0.460	0.150	7/25/2013	*
741	Waukegan	MW-07	manganese	0.460	0.150	11/4/2013	*
742	Waukegan	MW-07	sulfate	630.000	400.000	12/19/2012	*
743	Waukegan	MW-07	sulfate	710.000	400.000	3/7/2013	*
744	Waukegan	MW-07	sulfate	650.000	400.000	6/6/2013	*
745	Waukegan	MW-07	sulfate	860.000	400.000	7/25/2013	*
746	Waukegan	MW-07	sulfate	770.000	400.000	11/4/2013	*
747	Waukegan	MW-07	TDS	1800.000	1200.000	12/19/2012	*
748	Waukegan	MW-07	TDS	1800.000	1200.000	3/7/2013	*
749	Waukegan	MW-07	TDS	1800.000	1200.000	6/6/2013	*
750	Waukegan	MW-07	TDS	1800.000	1200.000	7/25/2013	*
751	Waukegan	MW-07	TDS	1800.000	1200.000	11/4/2013	*
752	Will	MW-01	antimony	0.006	0.006	12/8/2011	*
753	Will	MW-01	boron	2.100	2.000	6/20/2012	*
754	Will	MW-01	boron	2.400	2.000	5/23/2013	*
755	Will	MW-01	boron	2.300	2.000	8/14/2013	*
756	Will	MW-01	boron	2.600	2.000	10/29/2013	*
757	Will	MW-01	boron	2.400	2.000	2/20/2014	*
758	Will	MW-01	boron	2.500	2.000	5/20/2014	*
759	Will	MW-01	chloride	210.000	200.000	3/28/2011	*
760	Will	MW-01	chloride	220.000	200.000	3/5/2013	*
761	Will	MW-01	manganese	0.200	0.150	12/13/2010	*
762	Will	MW-01	manganese	0.220	0.150	6/15/2011	*
763	Will	MW-01	manganese	0.160	0.150	9/15/2011	*
764	Will	MW-01	manganese	0.170	0.150	12/8/2011	*
765	Will	MW-01	manganese	0.160	0.150	3/16/2012	*
766	Will	MW-01	manganese	0.160	0.150	6/20/2012	*
767	Will	MW-01	manganese	0.180	0.150	12/18/2012	*
768	Will	MW-01	manganese	0.170	0.150	3/5/2013	*
769	Will	MW-01	manganese	0.220	0.150	8/14/2013	*
770	Will	MW-01	manganese	0.280	0.150	10/29/2013	*
771	Will	MW-01	manganese	0.300	0.150	2/20/2014	*
772	Will	MW-01	manganese	0.260	0.150	5/20/2014	*
773	Will	MW-01	manganese	0.240	0.150	8/13/2014	*
774	Will	MW-01	sulfate	530.000	400.000	12/13/2010	*

775	Will	MW-01	sulfate	430.000	400.000	3/16/2012	*
776	Will	MW-01	sulfate	460.000	400.000	5/23/2013	*
777	Will	MW-01	sulfate	540.000	400.000	8/14/2013	*
778	Will	MW-01	sulfate	430.000	400.000	10/29/2013	*
779	Will	MW-01	TDS	1300.000	1200.000	8/14/2013	*
780	Will	MW-01	TDS	1300.000	1200.000	10/29/2013	*
781	Will	MW-01	TDS	1300.000	1200.000	2/20/2014	*
782	Will	MW-02	antimony	0.007	0.006	9/15/2011	*
783	Will	MW-02	antimony	0.017	0.006	12/9/2011	*
784	Will	MW-02	boron	2.300	2.000	6/15/2011	*
785	Will	MW-02	boron	2.300	2.000	9/15/2011	*
786	Will	MW-02	boron	2.200	2.000	9/24/2012	*
787	Will	MW-02	boron	2.200	2.000	8/14/2013	*
788	Will	MW-02	boron	2.400	2.000	10/28/2013	*
789	Will	MW-02	boron	2.400	2.000	2/20/2014	*
790	Will	MW-02	chloride	250.000	200.000	3/28/2011	*
791	Will	MW-02	sulfate	430.000	400.000	12/13/2010	*
792	Will	MW-03	boron	2.700	2.000	12/13/2010	*
793	Will	MW-03	boron	2.400	2.000	3/28/2011	*
794	Will	MW-03	boron	2.600	2.000	6/15/2011	*
795	Will	MW-03	boron	3.300	2.000	9/15/2011	*
796	Will	MW-03	boron	2.800	2.000	12/8/2011	*
797	Will	MW-03	boron	2.700	2.000	3/16/2012	*
798	Will	MW-03	boron	3.100	2.000	6/20/2012	*
799	Will	MW-03	boron	3.900	2.000	9/24/2012	*
800	Will	MW-03	boron	3.400	2.000	12/18/2012	*
801	Will	MW-03	boron	3.200	2.000	3/5/2013	*
802	Will	MW-03	boron	3.700	2.000	5/22/2013	*
803	Will	MW-03	boron	3.600	2.000	8/14/2013	*
804	Will	MW-03	boron	3.500	2.000	10/28/2013	*
805	Will	MW-03	boron	3.200	2.000	2/13/2014	*
806	Will	MW-03	chloride	250.000	200.000	3/28/2011	*
807	Will	MW-03	manganese	0.340	0.150	12/13/2010	*
808	Will	MW-03	manganese	0.310	0.150	3/28/2011	*
809	Will	MW-03	manganese	0.340	0.150	6/15/2011	*
810	Will	MW-03	manganese	0.260	0.150	9/15/2011	*
811	Will	MW-03	manganese	0.290	0.150	12/8/2011	*
812	Will	MW-03	manganese	0.270	0.150	3/16/2012	*
813	Will	MW-03	manganese	0.370	0.150	6/20/2012	*
814	Will	MW-03	manganese	0.240	0.150	9/24/2012	*
815	Will	MW-03	manganese	0.250	0.150	12/18/2012	*
816	Will	MW-03	manganese	0.290	0.150	3/5/2013	*
817	Will	MW-03	manganese	0.220	0.150	5/22/2013	*
818	Will	MW-03	manganese	0.190	0.150	8/14/2013	*
819	Will	MW-03	manganese	0.160	0.150	10/28/2013	*
820	Will	MW-03	manganese	0.450	0.150	2/13/2014	*
821	Will	MW-03	sulfate	500.000	400.000	6/20/2012	*
822	Will	MW-03	sulfate	440.000	400.000	9/24/2012	*
823	Will	MW-03	sulfate	480.000	400.000	12/18/2012	*
824	Will	MW-03	sulfate	610.000	400.000	5/22/2013	*
825	Will	MW-03	sulfate	530.000	400.000	8/14/2013	*
826	Will	MW-03	sulfate	540.000	400.000	10/28/2013	*

827	Will	MW-03	sulfate	560.000	400.000	2/13/2014	*
828	Will	MW-03	TDS	1400.000	1200.000	6/20/2012	*
829	Will	MW-04	boron	3.700	2.000	12/13/2010	*
830	Will	MW-04	boron	3.300	2.000	3/28/2011	*
831	Will	MW-04	boron	3.600	2.000	6/15/2011	*
832	Will	MW-04	boron	4.300	2.000	9/15/2011	*
833	Will	MW-04	boron	3.000	2.000	12/8/2011	*
834	Will	MW-04	boron	4.000	2.000	3/16/2012	*
835	Will	MW-04	boron	5.300	2.000	6/20/2012	*
836	Will	MW-04	boron	6.200	2.000	9/24/2012	*
837	Will	MW-04	boron	5.200	2.000	12/18/2012	*
838	Will	MW-04	boron	4.500	2.000	3/5/2013	*
839	Will	MW-04	boron	3.800	2.000	5/22/2013	*
840	Will	MW-04	boron	5.100	2.000	8/14/2013	*
841	Will	MW-04	boron	5.600	2.000	10/28/2013	*
842	Will	MW-04	boron	4.600	2.000	2/13/2014	*
843	Will	MW-04	manganese	0.520	0.150	12/13/2010	*
844	Will	MW-04	manganese	0.580	0.150	3/28/2011	*
845	Will	MW-04	manganese	0.700	0.150	6/15/2011	*
846	Will	MW-04	manganese	1.000	0.150	9/15/2011	*
847	Will	MW-04	manganese	0.620	0.150	12/8/2011	*
848	Will	MW-04	manganese	0.600	0.150	3/16/2012	*
849	Will	MW-04	manganese	0.700	0.150	6/20/2012	*
850	Will	MW-04	manganese	0.990	0.150	9/24/2012	*
851	Will	MW-04	manganese	0.620	0.150	12/18/2012	*
852	Will	MW-04	manganese	0.470	0.150	3/5/2013	*
853	Will	MW-04	manganese	0.440	0.150	5/22/2013	*
854	Will	MW-04	manganese	0.580	0.150	8/14/2013	*
855	Will	MW-04	manganese	0.650	0.150	10/28/2013	*
856	Will	MW-04	manganese	0.720	0.150	2/13/2014	*
857	Will	MW-04	sulfate	1500.000	400.000	12/13/2010	*
858	Will	MW-04	sulfate	1500.000	400.000	3/28/2011	*
859	Will	MW-04	sulfate	1600.000	400.000	6/15/2011	*
860	Will	MW-04	sulfate	4800.000	400.000	9/15/2011	*
861	Will	MW-04	sulfate	1600.000	400.000	12/8/2011	*
862	Will	MW-04	sulfate	2000.000	400.000	3/16/2012	*
863	Will	MW-04	sulfate	2800.000	400.000	6/20/2012	*
864	Will	MW-04	sulfate	3200.000	400.000	9/24/2012	*
865	Will	MW-04	sulfate	2200.000	400.000	12/18/2012	*
866	Will	MW-04	sulfate	2000.000	400.000	3/5/2013	*
867	Will	MW-04	sulfate	1500.000	400.000	5/22/2013	*
868	Will	MW-04	sulfate	2200.000	400.000	8/14/2013	*
869	Will	MW-04	sulfate	1300.000	400.000	10/28/2013	*
870	Will	MW-04	sulfate	1400.000	400.000	2/13/2014	*
871	Will	MW-04	TDS	2500.000	1200.000	12/13/2010	*
872	Will	MW-04	TDS	2600.000	1200.000	3/28/2011	*
873	Will	MW-04	TDS	2800.000	1200.000	6/15/2011	*
874	Will	MW-04	TDS	6000.000	1200.000	9/15/2011	*
875	Will	MW-04	TDS	3100.000	1200.000	12/8/2011	*
876	Will	MW-04	TDS	3700.000	1200.000	3/16/2012	*
877	Will	MW-04	TDS	4300.000	1200.000	6/20/2012	*
878	Will	MW-04	TDS	4400.000	1200.000	9/24/2012	*

879	Will	MW-04	TDS	4000.000	1200.000	12/18/2012 *
880	Will	MW-04	TDS	3600.000	1200.000	3/5/2013 *
881	Will	MW-04	TDS	2900.000	1200.000	5/22/2013 *
882	Will	MW-04	TDS	3500.000	1200.000	8/14/2013 *
883	Will	MW-04	TDS	2400.000	1200.000	10/28/2013 *
884	Will	MW-04	TDS	2800.000	1200.000	2/13/2014 *
885	Will	MW-05	boron	2.600	2.000	12/13/2010 *
886	Will	MW-05	boron	2.700	2.000	3/28/2011 *
887	Will	MW-05	boron	3.200	2.000	6/15/2011 *
888	Will	MW-05	boron	4.000	2.000	9/15/2011 *
889	Will	MW-05	boron	3.200	2.000	12/8/2011 *
890	Will	MW-05	boron	2.900	2.000	3/16/2012 *
891	Will	MW-05	boron	2.300	2.000	6/20/2012 *
892	Will	MW-05	boron	3.800	2.000	9/24/2012 *
893	Will	MW-05	boron	2.500	2.000	12/18/2012 *
894	Will	MW-05	boron	2.600	2.000	3/5/2013 *
895	Will	MW-05	boron	3.600	2.000	6/5/2013 *
896	Will	MW-05	boron	3.500	2.000	8/14/2013 *
897	Will	MW-05	boron	4.100	2.000	10/28/2013 *
898	Will	MW-05	boron	2.700	2.000	2/13/2014 *
899	Will	MW-05	selenium	0.170	0.050	10/28/2013 *
900	Will	MW-05	sulfate	580.000	400.000	12/13/2010 *
901	Will	MW-05	sulfate	570.000	400.000	3/28/2011 *
902	Will	MW-05	sulfate	540.000	400.000	6/15/2011 *
903	Will	MW-05	sulfate	690.000	400.000	9/15/2011 *
904	Will	MW-05	sulfate	500.000	400.000	12/8/2011 *
905	Will	MW-05	sulfate	410.000	400.000	6/20/2012 *
906	Will	MW-05	sulfate	540.000	400.000	9/24/2012 *
907	Will	MW-05	sulfate	650.000	400.000	6/5/2013 *
908	Will	MW-05	sulfate	500.000	400.000	8/14/2013 *
909	Will	MW-05	sulfate	560.000	400.000	10/28/2013 *
910	Will	MW-05	sulfate	690.000	400.000	2/13/2014 *
911	Will	MW-05	TDS	1300.000	1200.000	3/28/2011 *
912	Will	MW-05	TDS	1400.000	1200.000	6/15/2011 *
913	Will	MW-05	TDS	1500.000	1200.000	9/15/2011 *
914	Will	MW-05	TDS	1600.000	1200.000	6/5/2013 *
915	Will	MW-05	TDS	1300.000	1200.000	10/28/2013 *
916	Will	MW-05	TDS	1400.000	1200.000	2/13/2014 *
917	Will	MW-06	boron	2.700	2.000	12/13/2010 *
918	Will	MW-06	boron	2.500	2.000	3/28/2011 *
919	Will	MW-06	boron	2.400	2.000	6/15/2011 *
920	Will	MW-06	boron	3.000	2.000	9/15/2011 *
921	Will	MW-06	boron	2.500	2.000	12/8/2011 *
922	Will	MW-06	boron	2.500	2.000	3/16/2012 *
923	Will	MW-06	boron	2.900	2.000	6/20/2012 *
924	Will	MW-06	boron	3.000	2.000	9/24/2012 *
925	Will	MW-06	boron	3.000	2.000	12/18/2012 *
926	Will	MW-06	boron	2.700	2.000	3/5/2013 *
927	Will	MW-06	boron	2.800	2.000	5/22/2013 *
928	Will	MW-06	boron	2.900	2.000	8/14/2013 *
929	Will	MW-06	boron	3.700	2.000	10/28/2013 *
930	Will	MW-06	boron	3.000	2.000	2/13/2014 *

931	Will	MW-06	chloride	210.000	200.000	3/28/2011 *
932	Will	MW-06	sulfate	500.000	400.000	12/13/2010 *
933	Will	MW-06	sulfate	540.000	400.000	3/28/2011 *
934	Will	MW-06	sulfate	570.000	400.000	6/15/2011 *
935	Will	MW-06	sulfate	420.000	400.000	9/15/2011 *
936	Will	MW-06	sulfate	440.000	400.000	12/8/2011 *
937	Will	MW-06	sulfate	450.000	400.000	6/20/2012 *
938	Will	MW-06	sulfate	550.000	400.000	9/24/2012 *
939	Will	MW-07	boron	4.700	2.000	12/13/2010 *
940	Will	MW-07	boron	5.000	2.000	3/28/2011 *
941	Will	MW-07	boron	5.700	2.000	6/15/2011 *
942	Will	MW-07	boron	3.400	2.000	9/15/2011 *
943	Will	MW-07	boron	5.000	2.000	12/8/2011 *
944	Will	MW-07	boron	5.100	2.000	3/16/2012 *
945	Will	MW-07	boron	5.600	2.000	6/20/2012 *
946	Will	MW-07	boron	5.500	2.000	9/24/2012 *
947	Will	MW-07	boron	5.100	2.000	12/18/2012 *
948	Will	MW-07	boron	4.300	2.000	3/5/2013 *
949	Will	MW-07	boron	2.600	2.000	5/22/2013 *
950	Will	MW-07	boron	3.500	2.000	8/15/2013 *
951	Will	MW-07	boron	3.000	2.000	10/29/2013 *
952	Will	MW-07	boron	4.000	2.000	2/20/2014 *
953	Will	MW-07	chloride	210.000	200.000	2/20/2014 *
954	Will	MW-07	manganese	0.180	0.150	9/15/2011 *
955	Will	MW-07	manganese	0.200	0.150	12/8/2011 *
956	Will	MW-07	manganese	0.200	0.150	3/16/2012 *
957	Will	MW-07	manganese	0.190	0.150	6/20/2012 *
958	Will	MW-07	manganese	0.190	0.150	9/24/2012 *
959	Will	MW-07	manganese	0.190	0.150	12/18/2012 *
960	Will	MW-07	manganese	0.160	0.150	2/20/2014 *
961	Will	MW-07	sulfate	610.000	400.000	12/13/2010 *
962	Will	MW-07	sulfate	650.000	400.000	3/28/2011 *
963	Will	MW-07	sulfate	1000.000	400.000	6/15/2011 *
964	Will	MW-07	sulfate	710.000	400.000	9/15/2011 *
965	Will	MW-07	sulfate	710.000	400.000	12/8/2011 *
966	Will	MW-07	sulfate	770.000	400.000	3/16/2012 *
967	Will	MW-07	sulfate	670.000	400.000	6/20/2012 *
968	Will	MW-07	sulfate	600.000	400.000	9/24/2012 *
969	Will	MW-07	sulfate	480.000	400.000	12/18/2012 *
970	Will	MW-07	sulfate	460.000	400.000	8/15/2013 *
971	Will	MW-07	sulfate	530.000	400.000	10/29/2013 *
972	Will	MW-07	TDS	1300.000	1200.000	12/13/2010 *
973	Will	MW-07	TDS	1500.000	1200.000	3/28/2011 *
974	Will	MW-07	TDS	1600.000	1200.000	6/15/2011 *
975	Will	MW-07	TDS	1400.000	1200.000	9/15/2011 *
976	Will	MW-07	TDS	1300.000	1200.000	12/8/2011 *
977	Will	MW-07	TDS	1400.000	1200.000	3/16/2012 *
978	Will	MW-07	TDS	1300.000	1200.000	6/20/2012 *
979	Will	MW-07	TDS	1300.000	1200.000	2/20/2014 *
980	Will	MW-08	arsenic	0.014	0.010	9/15/2011 *
981	Will	MW-08	arsenic	0.012	0.010	12/8/2011 *
982	Will	MW-08	arsenic	0.013	0.010	6/20/2012 *

983	Will	MW-08	arsenic	0.018	0.010	9/24/2012	*
984	Will	MW-08	arsenic	0.016	0.010	8/15/2013	*
985	Will	MW-08	boron	2.300	2.000	9/15/2011	*
986	Will	MW-08	boron	2.600	2.000	9/24/2012	*
987	Will	MW-08	boron	2.100	2.000	12/18/2012	*
988	Will	MW-08	boron	2.400	2.000	8/15/2013	*
989	Will	MW-08	boron	3.200	2.000	10/28/2013	*
990	Will	MW-08	chloride	270.000	200.000	3/29/2011	*
991	Will	MW-08	manganese	0.330	0.150	12/13/2010	*
992	Will	MW-08	manganese	0.440	0.150	3/29/2011	*
993	Will	MW-08	manganese	0.470	0.150	6/15/2011	*
994	Will	MW-08	manganese	0.450	0.150	9/15/2011	*
995	Will	MW-08	manganese	0.400	0.150	12/8/2011	*
996	Will	MW-08	manganese	0.360	0.150	6/20/2012	*
997	Will	MW-08	manganese	0.410	0.150	9/24/2012	*
998	Will	MW-08	manganese	0.430	0.150	12/18/2012	*
999	Will	MW-08	manganese	0.330	0.150	3/5/2013	*
1000	Will	MW-08	manganese	0.470	0.150	5/23/2013	*
1001	Will	MW-08	manganese	0.310	0.150	8/15/2013	*
1002	Will	MW-08	manganese	0.420	0.150	10/28/2013	*
1003	Will	MW-08	manganese	0.390	0.150	2/20/2014	*
1004	Will	MW-08	sulfate	440.000	400.000	12/13/2010	*
1005	Will	MW-08	sulfate	440.000	400.000	3/29/2011	*
1006	Will	MW-08	sulfate	420.000	400.000	6/15/2011	*
1007	Will	MW-08	sulfate	600.000	400.000	9/15/2011	*
1008	Will	MW-08	sulfate	630.000	400.000	9/24/2012	*
1009	Will	MW-08	sulfate	440.000	400.000	8/15/2013	*
1010	Will	MW-08	sulfate	650.000	400.000	10/28/2013	*
1011	Will	MW-08	TDS	1300.000	1200.000	9/15/2011	*
1012	Will	MW-08	TDS	1600.000	1200.000	10/28/2013	*
1013	Will	MW-08	TDS	1300.000	1200.000	2/20/2014	*
1014	Will	MW-09	boron	2.200	2.000	12/13/2010	*
1015	Will	MW-09	boron	2.200	2.000	10/29/2013	*
1016	Will	MW-09	chloride	280.000	200.000	3/28/2011	*
1017	Will	MW-09	chloride	230.000	200.000	6/15/2011	*
1018	Will	MW-09	chloride	270.000	200.000	2/13/2014	*
1019	Will	MW-09	sulfate	410.000	400.000	12/13/2010	*
1020	Will	MW-09	sulfate	410.000	400.000	6/15/2011	*
1021	Will	MW-10	arsenic	0.012	0.010	10/28/2013	*
1022	Will	MW-10	boron	2.100	2.000	12/13/2010	*
1023	Will	MW-10	boron	2.200	2.000	6/15/2011	*
1024	Will	MW-10	boron	2.800	2.000	9/15/2011	*
1025	Will	MW-10	boron	2.500	2.000	12/8/2011	*
1026	Will	MW-10	boron	2.100	2.000	3/16/2012	*
1027	Will	MW-10	boron	2.100	2.000	6/20/2012	*
1028	Will	MW-10	boron	3.200	2.000	9/24/2012	*
1029	Will	MW-10	boron	2.700	2.000	12/18/2012	*
1030	Will	MW-10	boron	2.700	2.000	3/5/2013	*
1031	Will	MW-10	boron	2.700	2.000	5/22/2013	*
1032	Will	MW-10	boron	2.300	2.000	8/15/2013	*
1033	Will	MW-10	boron	3.800	2.000	10/28/2013	*
1034	Will	MW-10	boron	2.500	2.000	2/20/2014	*

1035	Will	MW-10	manganese	0.250	0.150	12/13/2010	*
1036	Will	MW-10	manganese	0.220	0.150	3/28/2011	*
1037	Will	MW-10	manganese	0.250	0.150	6/15/2011	*
1038	Will	MW-10	manganese	0.270	0.150	9/15/2011	*
1039	Will	MW-10	manganese	0.290	0.150	12/8/2011	*
1040	Will	MW-10	manganese	0.250	0.150	3/16/2012	*
1041	Will	MW-10	manganese	0.260	0.150	6/20/2012	*
1042	Will	MW-10	manganese	0.230	0.150	9/24/2012	*
1043	Will	MW-10	manganese	0.290	0.150	12/18/2012	*
1044	Will	MW-10	manganese	0.290	0.150	3/5/2013	*
1045	Will	MW-10	manganese	0.240	0.150	5/22/2013	*
1046	Will	MW-10	manganese	0.220	0.150	10/28/2013	*
1047	Will	MW-10	manganese	0.180	0.150	2/20/2014	*
1048	Will	MW-10	sulfate	420.000	400.000	9/15/2011	*
1049	Joliet 29	MW-02	chloride	240.000	200.000	10/23/2014	
1050	Joliet 29	MW-02	chloride	410.000	200.000	5/27/2015	
1051	Joliet 29	MW-03	chloride	220.000	200.000	5/27/2015	
1052	Joliet 29	MW-04	chloride	290.000	200.000	5/27/2015	
1053	Joliet 29	MW-05	chloride	220.000	200.000	2/11/2015	
1054	Joliet 29	MW-05	chloride	250.000	200.000	5/27/2015	
1055	Joliet 29	MW-06	chloride	270.000	200.000	5/28/2015	
1056	Joliet 29	MW-07	chloride	210.000	200.000	2/10/2015	
1057	Joliet 29	MW-07	chloride	260.000	200.000	5/28/2015	
1058	Joliet 29	MW-08	chloride	470.000	200.000	2/10/2015	
1059	Joliet 29	MW-08	chloride	270.000	200.000	5/27/2015	
1060	Joliet 29	MW-08	iron	10.000	5.000	2/10/2015	
1061	Joliet 29	MW-08	manganese	1.100	0.150	2/10/2015	
1062	Joliet 29	MW-08	Nickel	0.190	0.100	2/10/2015	
1063	Joliet 29	MW-08	sulfate	600.000	400.000	2/10/2015	
1064	Joliet 29	MW-08	TDS	2000.000	1200.000	2/10/2015	
1065	Joliet 29	MW-09	chloride	230.000	200.000	10/23/2014	
1066	Joliet 29	MW-09	chloride	390.000	200.000	2/10/2015	
1067	Joliet 29	MW-09	chloride	340.000	200.000	5/27/2015	
1068	Joliet 29	MW-09	chloride	220.000	200.000	10/27/2015	
1069	Joliet 29	MW-09	iron	45.000	5.000	10/23/2014	
1070	Joliet 29	MW-09	iron	23.000	5.000	2/10/2015	
1071	Joliet 29	MW-09	iron	140.000	5.000	5/27/2015	
1072	Joliet 29	MW-09	iron	140.000	5.000	5/27/2015	
1073	Joliet 29	MW-09	iron	3400.000	5.000	5/11/2016	
1074	Joliet 29	MW-09	iron	900.000	5.000	11/1/2016	
1075	Joliet 29	MW-09	iron	250.000	5.000	2/8/2017	
1076	Joliet 29	MW-09	iron	1000.000	5.000	4/25/2017	
1077	Joliet 29	MW-09	manganese	0.380	0.150	10/23/2014	
1078	Joliet 29	MW-09	manganese	0.540	0.150	2/10/2015	
1079	Joliet 29	MW-09	manganese	0.660	0.150	5/27/2015	
1080	Joliet 29	MW-09	manganese	0.660	0.150	5/27/2015	
1081	Joliet 29	MW-09	manganese	1.400	0.150	8/4/2015	
1082	Joliet 29	MW-09	manganese	0.790	0.150	10/27/2015	
1083	Joliet 29	MW-09	manganese	2.300	0.150	2/9/2016	
1084	Joliet 29	MW-09	manganese	6.000	0.150	5/11/2016	
1085	Joliet 29	MW-09	manganese	3.700	0.150	8/30/2016	
1086	Joliet 29	MW-09	manganese	1.600	0.150	11/1/2016	

1087	Joliet 29	MW-09	manganese	0.610	0.150	2/8/2017
1088	Joliet 29	MW-09	manganese	1.900	0.150	4/25/2017
1089	Joliet 29	MW-09	Nickel	0.170	0.100	5/11/2016
1090	Joliet 29	MW-09	Nickel	0.140	0.100	8/30/2016
1091	Joliet 29	MW-09	sulfate	960.000	400.000	10/23/2014
1092	Joliet 29	MW-09	sulfate	820.000	400.000	2/10/2015
1093	Joliet 29	MW-09	sulfate	1100.000	400.000	5/27/2015
1094	Joliet 29	MW-09	TDS	1700.000	1200.000	10/23/2014
1095	Joliet 29	MW-09	TDS	2400.000	1200.000	2/10/2015
1096	Joliet 29	MW-09	TDS	3100.000	1200.000	5/27/2015
1097	Joliet 29	MW-09	TDS	3100.000	1200.000	5/27/2015
1098	Joliet 29	MW-09	TDS	3900.000	1200.000	8/4/2015
1099	Joliet 29	MW-09	TDS	2600.000	1200.000	10/27/2015
1100	Joliet 29	MW-09	TDS	4700.000	1200.000	2/9/2016
1101	Joliet 29	MW-09	TDS	19000.000	1200.000	5/11/2016
1102	Joliet 29	MW-09	TDS	15000.000	1200.000	8/30/2016
1103	Joliet 29	MW-09	TDS	6100.000	1200.000	11/1/2016
1104	Joliet 29	MW-09	TDS	2800.000	1200.000	2/8/2017
1105	Joliet 29	MW-09	TDS	6500.000	1200.000	4/25/2017
1106	Joliet 29	MW-10	chloride	210.000	200.000	2/11/2015
1107	Joliet 29	MW-10	chloride	320.000	200.000	5/28/2015
1108	Joliet 29	MW-10	chloride	210.000	200.000	10/28/2015
1109	Joliet 29	MW-10	chloride	290.000	200.000	5/12/2016
1110	Joliet 29	MW-10	chloride	210.000	200.000	4/26/2017
1111	Joliet 29	MW-11	chloride	270.000	200.000	2/11/2015
1112	Joliet 29	MW-11	chloride	290.000	200.000	5/28/2015
1113	Joliet 29	MW-11	chloride	230.000	200.000	2/11/2016
1114	Joliet 29	MW-11	chloride	240.000	200.000	5/11/2016
1115	Joliet 29	MW-11	chloride	240.000	200.000	2/7/2017
1116	Joliet 29	MW-11	manganese	0.270	0.150	2/11/2015
1117	Joliet 29	MW-11	Nickel	0.160	0.100	2/11/2015
1118	Joliet 29	MW-11	TDS	1300.000	1200.000	2/11/2015
1119	Powerton	MW-06	chloride	230.000	200.000	5/11/2015
1120	Powerton	MW-06	chloride	210.000	200.000	8/16/2016
1121	Powerton	MW-06	chloride	210.000	200.000	11/17/2016
1122	Powerton	MW-06	manganese	0.900	0.150	5/11/2015
1123	Powerton	MW-06	manganese	1.200	0.150	8/18/2015
1124	Powerton	MW-06	manganese	0.980	0.150	11/17/2015
1125	Powerton	MW-06	manganese	0.870	0.150	2/23/2016
1126	Powerton	MW-06	manganese	0.850	0.150	5/17/2016
1127	Powerton	MW-06	manganese	0.570	0.150	8/16/2016
1128	Powerton	MW-06	manganese	0.790	0.150	11/16/2016
1129	Powerton	MW-06	manganese	1.000	0.150	2/16/2017
1130	Powerton	MW-06	manganese	0.860	0.150	5/2/2017
1131	Powerton	MW-06	sulfate	490.000	400.000	11/17/2015
1132	Powerton	MW-06	sulfate	500.000	400.000	5/17/2016
1133	Powerton	MW-06	sulfate	470.000	400.000	11/16/2016
1134	Powerton	MW-06	sulfate	420.000	400.000	5/2/2017
1135	Powerton	MW-06	TDS	1400.000	1200.000	8/18/2015
1136	Powerton	MW-06	TDS	1400.000	1200.000	5/17/2016
1137	Powerton	MW-07	arsenic	0.180	0.010	5/11/2015
1138	Powerton	MW-07	arsenic	0.230	0.010	8/18/2015

1139	Powerton	MW-07	arsenic	0.130	0.010	11/16/2015
1140	Powerton	MW-07	arsenic	0.210	0.010	2/24/2016
1141	Powerton	MW-07	arsenic	0.130	0.010	5/18/2016
1142	Powerton	MW-07	arsenic	0.140	0.010	8/19/2016
1143	Powerton	MW-07	arsenic	0.180	0.010	11/16/2016
1144	Powerton	MW-07	arsenic	0.190	0.010	2/16/2017
1145	Powerton	MW-07	arsenic	0.120	0.010	5/2/2017
1146	Powerton	MW-07	iron	9.500	5.000	5/11/2015
1147	Powerton	MW-07	iron	38.000	5.000	8/18/2015
1148	Powerton	MW-07	iron	12.000	5.000	11/16/2015
1149	Powerton	MW-07	iron	33.000	5.000	2/24/2016
1150	Powerton	MW-07	iron	9.200	5.000	5/18/2016
1151	Powerton	MW-07	iron	14.000	5.000	8/19/2016
1152	Powerton	MW-07	iron	22.000	5.000	11/16/2016
1153	Powerton	MW-07	iron	20.000	5.000	2/16/2017
1154	Powerton	MW-07	iron	13.000	5.000	5/2/2017
1155	Powerton	MW-07	manganese	5.900	0.150	5/11/2015
1156	Powerton	MW-07	manganese	15.000	0.150	8/18/2015
1157	Powerton	MW-07	manganese	6.200	0.150	11/16/2015
1158	Powerton	MW-07	manganese	13.000	0.150	2/24/2016
1159	Powerton	MW-07	manganese	3.000	0.150	5/18/2016
1160	Powerton	MW-07	manganese	7.100	0.150	8/19/2016
1161	Powerton	MW-07	manganese	7.800	0.150	11/16/2016
1162	Powerton	MW-07	manganese	8.600	0.150	2/16/2017
1163	Powerton	MW-07	manganese	5.500	0.150	5/2/2017
1164	Powerton	MW-07	TDS	1300.000	1200.000	8/18/2015
1165	Powerton	MW-07	TDS	1300.000	1200.000	2/24/2016
1166	Powerton	MW-07	TDS	1400.000	1200.000	8/19/2016
1167	Powerton	MW-08	chloride	270.000	200.000	5/11/2015
1168	Powerton	MW-08	chloride	250.000	200.000	8/18/2015
1169	Powerton	MW-08	chloride	260.000	200.000	8/17/2016
1170	Powerton	MW-08	chloride	300.000	200.000	11/15/2016
1171	Powerton	MW-08	chloride	360.000	200.000	2/16/2017
1172	Powerton	MW-08	chloride	300.000	200.000	5/2/2017
1173	Powerton	MW-08	manganese	0.780	0.150	8/18/2015
1174	Powerton	MW-08	manganese	0.210	0.150	11/18/2015
1175	Powerton	MW-08	manganese	0.230	0.150	2/25/2016
1176	Powerton	MW-08	manganese	0.230	0.150	5/18/2016
1177	Powerton	MW-08	manganese	0.280	0.150	8/17/2016
1178	Powerton	MW-08	manganese	0.380	0.150	11/15/2016
1179	Powerton	MW-08	manganese	0.430	0.150	2/16/2017
1180	Powerton	MW-08	manganese	0.580	0.150	5/2/2017
1181	Powerton	MW-08	sulfate	530.000	400.000	11/18/2015
1182	Powerton	MW-08	TDS	1400.000	1200.000	8/17/2016
1183	Powerton	MW-08	TDS	1300.000	1200.000	11/15/2016
1184	Powerton	MW-08	TDS	1400.000	1200.000	2/16/2017
1185	Powerton	MW-08	TDS	1300.000	1200.000	5/2/2017
1186	Powerton	MW-09	boron	3.200	2.000	5/12/2015
1187	Powerton	MW-09	boron	3.300	2.000	8/19/2015
1188	Powerton	MW-09	boron	2.200	2.000	11/18/2015
1189	Powerton	MW-09	boron	2.300	2.000	2/25/2016
1190	Powerton	MW-09	boron	2.700	2.000	8/17/2016

1191	Powerton	MW-09	boron	3.800	2.000	11/17/2016
1192	Powerton	MW-09	boron	3.000	2.000	2/15/2017
1193	Powerton	MW-09	boron	3.400	2.000	5/3/2017
1194	Powerton	MW-09	Nitrogen/Nitra	11.000	10.000	8/19/2015
1195	Powerton	MW-10	manganese	1.700	0.150	5/14/2015
1196	Powerton	MW-10	manganese	0.940	0.150	8/18/2015
1197	Powerton	MW-10	manganese	1.400	0.150	11/18/2015
1198	Powerton	MW-10	manganese	1.600	0.150	2/24/2016
1199	Powerton	MW-10	manganese	2.300	0.150	5/18/2016
1200	Powerton	MW-10	manganese	1.400	0.150	8/19/2016
1201	Powerton	MW-10	manganese	1.300	0.150	11/16/2016
1202	Powerton	MW-10	manganese	1.100	0.150	2/15/2017
1203	Powerton	MW-10	manganese	3.300	0.150	5/2/2017
1204	Powerton	MW-11	arsenic	0.052	0.010	5/12/2015
1205	Powerton	MW-11	arsenic	0.027	0.010	8/19/2015
1206	Powerton	MW-11	arsenic	0.015	0.010	11/19/2015
1207	Powerton	MW-11	arsenic	0.011	0.010	5/20/2016
1208	Powerton	MW-11	arsenic	0.015	0.010	8/17/2016
1209	Powerton	MW-11	manganese	7.800	0.150	5/12/2015
1210	Powerton	MW-11	manganese	5.900	0.150	8/19/2015
1211	Powerton	MW-11	manganese	4.100	0.150	11/19/2015
1212	Powerton	MW-11	manganese	3.600	0.150	2/26/2016
1213	Powerton	MW-11	manganese	3.900	0.150	5/20/2016
1214	Powerton	MW-11	manganese	4.200	0.150	8/17/2016
1215	Powerton	MW-11	manganese	4.000	0.150	11/17/2016
1216	Powerton	MW-11	manganese	3.700	0.150	2/16/2017
1217	Powerton	MW-11	manganese	4.100	0.150	5/3/2017
1218	Powerton	MW-11	sulfate	410.000	400.000	5/3/2017
1219	Powerton	MW-11	TDS	1300.000	1200.000	5/3/2017
1220	Powerton	MW-12	arsenic	0.013	0.010	11/18/2016
1221	Powerton	MW-12	chloride	230.000	200.000	5/12/2015
1222	Powerton	MW-12	chloride	220.000	200.000	8/19/2015
1223	Powerton	MW-12	chloride	220.000	200.000	11/19/2015
1224	Powerton	MW-12	chloride	210.000	200.000	2/26/2016
1225	Powerton	MW-12	chloride	210.000	200.000	8/18/2016
1226	Powerton	MW-12	manganese	0.630	0.150	5/15/2015
1227	Powerton	MW-12	manganese	0.160	0.150	8/19/2015
1228	Powerton	MW-12	manganese	1.200	0.150	11/19/2015
1229	Powerton	MW-12	manganese	0.510	0.150	5/20/2016
1230	Powerton	MW-12	manganese	1.000	0.150	8/18/2016
1231	Powerton	MW-12	manganese	0.960	0.150	11/18/2016
1232	Powerton	MW-12	sulfate	530.000	400.000	5/12/2015
1233	Powerton	MW-12	sulfate	750.000	400.000	11/19/2015
1234	Powerton	MW-12	sulfate	580.000	400.000	2/26/2016
1235	Powerton	MW-12	sulfate	570.000	400.000	5/20/2016
1236	Powerton	MW-12	sulfate	600.000	400.000	8/18/2016
1237	Powerton	MW-12	sulfate	550.000	400.000	2/16/2017
1238	Powerton	MW-12	sulfate	450.000	400.000	5/3/2017
1239	Powerton	MW-12	TDS	1400.000	1200.000	5/12/2015
1240	Powerton	MW-12	TDS	1300.000	1200.000	8/19/2015
1241	Powerton	MW-12	TDS	1400.000	1200.000	11/19/2015
1242	Powerton	MW-12	TDS	1300.000	1200.000	2/26/2016

1243	Powerton	MW-12	TDS	1700.000	1200.000	5/20/2016
1244	Powerton	MW-12	TDS	1300.000	1200.000	8/18/2016
1245	Powerton	MW-13	arsenic	0.033	0.010	5/13/2015
1246	Powerton	MW-13	arsenic	0.030	0.010	8/19/2015
1247	Powerton	MW-13	arsenic	0.027	0.010	11/19/2015
1248	Powerton	MW-13	arsenic	0.027	0.010	2/24/2016
1249	Powerton	MW-13	arsenic	0.033	0.010	5/19/2016
1250	Powerton	MW-13	arsenic	0.027	0.010	8/18/2016
1251	Powerton	MW-13	arsenic	0.028	0.010	11/17/2016
1252	Powerton	MW-13	arsenic	0.024	0.010	2/17/2017
1253	Powerton	MW-13	arsenic	0.028	0.010	5/4/2017
1254	Powerton	MW-13	boron	3.800	2.000	5/13/2015
1255	Powerton	MW-13	boron	3.600	2.000	8/19/2015
1256	Powerton	MW-13	boron	3.200	2.000	11/19/2015
1257	Powerton	MW-13	boron	3.700	2.000	2/24/2016
1258	Powerton	MW-13	boron	2.900	2.000	5/19/2016
1259	Powerton	MW-13	boron	3.000	2.000	8/18/2016
1260	Powerton	MW-13	boron	3.700	2.000	11/17/2016
1261	Powerton	MW-13	boron	3.000	2.000	2/17/2017
1262	Powerton	MW-13	boron	3.000	2.000	5/4/2017
1263	Powerton	MW-13	manganese	3.900	0.150	5/13/2015
1264	Powerton	MW-13	manganese	4.700	0.150	8/19/2015
1265	Powerton	MW-13	manganese	4.300	0.150	11/19/2015
1266	Powerton	MW-13	manganese	4.500	0.150	2/24/2016
1267	Powerton	MW-13	manganese	4.400	0.150	5/19/2016
1268	Powerton	MW-13	manganese	4.900	0.150	8/18/2016
1269	Powerton	MW-13	manganese	5.000	0.150	11/17/2016
1270	Powerton	MW-13	manganese	4.500	0.150	2/17/2017
1271	Powerton	MW-13	manganese	5.200	0.150	5/4/2017
1272	Powerton	MW-13	sulfate	1100.000	250.000	5/13/2015
1273	Powerton	MW-13	sulfate	1300.000	250.000	8/19/2015
1274	Powerton	MW-13	sulfate	1700.000	250.000	11/19/2015
1275	Powerton	MW-13	sulfate	1300.000	250.000	2/24/2016
1276	Powerton	MW-13	sulfate	1200.000	250.000	5/19/2016
1277	Powerton	MW-13	sulfate	1500.000	250.000	8/18/2016
1278	Powerton	MW-13	sulfate	1700.000	250.000	11/17/2016
1279	Powerton	MW-13	sulfate	1700.000	250.000	2/17/2017
1280	Powerton	MW-13	sulfate	1800.000	250.000	5/4/2017
1281	Powerton	MW-13	TDS	2200.000	1200.000	10/29/2014
1282	Powerton	MW-13	TDS	2300.000	1200.000	2/26/2015
1283	Powerton	MW-13	TDS	2600.000	1200.000	5/13/2015
1284	Powerton	MW-13	TDS	2500.000	1200.000	8/19/2015
1285	Powerton	MW-13	TDS	2400.000	1200.000	11/19/2015
1286	Powerton	MW-13	TDS	2600.000	1200.000	2/24/2016
1287	Powerton	MW-13	TDS	2800.000	1200.000	5/19/2016
1288	Powerton	MW-13	TDS	3300.000	1200.000	8/18/2016
1289	Powerton	MW-13	TDS	3400.000	1200.000	11/17/2016
1290	Powerton	MW-13	TDS	3500.000	1200.000	2/17/2017
1291	Powerton	MW-13	TDS	3500.000	1200.000	5/4/2017
1292	Powerton	MW-14	boron	2.200	2.000	10/29/2014
1293	Powerton	MW-14	boron	2.200	2.000	2/26/2015
1294	Powerton	MW-14	boron	2.500	2.000	11/15/2015

1295	Powerton	MW-14	boron	2.300	2.000	2/24/2016
1296	Powerton	MW-14	boron	2.200	2.000	5/19/2016
1297	Powerton	MW-14	boron	2.300	2.000	2/17/2017
1298	Powerton	MW-14	boron	2.500	2.000	5/4/2017
1299	Powerton	MW-14	iron	5.300	5.000	10/29/2014
1300	Powerton	MW-14	manganese	1.300	0.150	10/29/2014
1301	Powerton	MW-14	manganese	0.320	0.150	8/19/2015
1302	Powerton	MW-14	manganese	1.200	0.150	11/18/2015
1303	Powerton	MW-14	manganese	0.250	0.150	5/19/2016
1304	Powerton	MW-14	manganese	0.260	0.150	8/18/2016
1305	Powerton	MW-14	manganese	0.810	0.150	11/17/2016
1306	Powerton	MW-14	manganese	1.800	0.150	2/17/2017
1307	Powerton	MW-14	manganese	1.700	0.150	5/4/2017
1308	Powerton	MW-14	sulfate	1300.000	400.000	10/29/2014
1309	Powerton	MW-14	sulfate	850.000	400.000	2/26/2015
1310	Powerton	MW-14	sulfate	1200.000	400.000	5/13/2015
1311	Powerton	MW-14	sulfate	1000.000	400.000	8/19/2015
1312	Powerton	MW-14	sulfate	1200.000	400.000	11/18/2015
1313	Powerton	MW-14	sulfate	730.000	400.000	2/24/2016
1314	Powerton	MW-14	sulfate	650.000	400.000	5/19/2016
1315	Powerton	MW-14	sulfate	1000.000	400.000	8/18/2016
1316	Powerton	MW-14	sulfate	1200.000	400.000	11/17/2016
1317	Powerton	MW-14	sulfate	1500.000	400.000	2/17/2017
1318	Powerton	MW-14	sulfate	1700.000	400.000	5/4/2017
1319	Powerton	MW-14	TDS	2200.000	1200.000	10/29/2014
1320	Powerton	MW-14	TDS	2200.000	1200.000	2/26/2015
1321	Powerton	MW-14	TDS	2700.000	1200.000	5/13/2015
1322	Powerton	MW-14	TDS	2400.000	1200.000	8/19/2015
1323	Powerton	MW-14	TDS	2300.000	1200.000	11/18/2015
1324	Powerton	MW-14	TDS	1800.000	1200.000	2/24/2016
1325	Powerton	MW-14	TDS	1800.000	1200.000	5/19/2016
1326	Powerton	MW-14	TDS	2300.000	1200.000	8/18/2016
1327	Powerton	MW-14	TDS	2900.000	1200.000	11/17/2016
1328	Powerton	MW-14	TDS	3200.000	1200.000	2/17/2017
1329	Powerton	MW-14	TDS	3600.000	1200.000	5/4/2017
1330	Powerton	MW-15	boron	2.400	2.000	2/25/2016
1331	Powerton	MW-15	chloride	230.000	200.000	10/28/2014
1332	Powerton	MW-15	chloride	240.000	200.000	2/26/2015
1333	Powerton	MW-15	chloride	230.000	200.000	5/14/2015
1334	Powerton	MW-15	chloride	230.000	200.000	5/19/2016
1335	Powerton	MW-15	manganese	0.870	0.150	10/28/2014
1336	Powerton	MW-15	manganese	0.400	0.150	2/26/2015
1337	Powerton	MW-15	manganese	0.420	0.150	5/14/2015
1338	Powerton	MW-15	manganese	0.180	0.150	8/19/2015
1339	Powerton	MW-15	manganese	1.300	0.150	11/18/2015
1340	Powerton	MW-15	manganese	0.590	0.150	5/19/2016
1341	Powerton	MW-15	manganese	0.520	0.150	8/18/2016
1342	Powerton	MW-15	manganese	0.190	0.150	11/17/2016
1343	Powerton	MW-15	manganese	0.430	0.150	2/17/2017
1344	Powerton	MW-15	manganese	0.670	0.150	5/4/2017
1345	Powerton	MW-15	sulfate	660.000	400.000	10/28/2014
1346	Powerton	MW-15	sulfate	460.000	400.000	2/26/2015

1347	Powerton	MW-15	sulfate	930.000	400.000	5/14/2015
1348	Powerton	MW-15	sulfate	640.000	400.000	8/19/2015
1349	Powerton	MW-15	sulfate	1500.000	400.000	11/18/2015
1350	Powerton	MW-15	sulfate	670.000	400.000	2/25/2016
1351	Powerton	MW-15	sulfate	1100.000	400.000	5/19/2016
1352	Powerton	MW-15	sulfate	620.000	400.000	8/18/2016
1353	Powerton	MW-15	sulfate	570.000	400.000	11/17/2016
1354	Powerton	MW-15	sulfate	610.000	400.000	2/17/2017
1355	Powerton	MW-15	sulfate	480.000	400.000	5/4/2017
1356	Powerton	MW-15	TDS	1600.000	1200.000	10/28/2014
1357	Powerton	MW-15	TDS	1400.000	1200.000	2/26/2015
1358	Powerton	MW-15	TDS	2500.000	1200.000	5/14/2015
1359	Powerton	MW-15	TDS	1900.000	1200.000	8/19/2015
1360	Powerton	MW-15	TDS	2400.000	1200.000	11/18/2015
1361	Powerton	MW-15	TDS	1600.000	1200.000	2/25/2016
1362	Powerton	MW-15	TDS	2800.000	1200.000	5/19/2016
1363	Powerton	MW-15	TDS	1900.000	1200.000	8/18/2016
1364	Powerton	MW-15	TDS	1900.000	1200.000	11/17/2016
1365	Powerton	MW-15	TDS	1700.000	1200.000	2/17/2017
1366	Powerton	MW-15	TDS	1500.000	1200.000	5/4/2017
1367	Powerton	MW-16	Nitrogen/Nitra	28.000	10.000	10/30/2014
1368	Powerton	MW-16	Nitrogen/Nitra	28.000	10.000	2/24/2015
1369	Powerton	MW-16	Nitrogen/Nitra	24.000	10.000	5/12/2015
1370	Powerton	MW-16	Nitrogen/Nitra	19.000	10.000	8/18/2015
1371	Powerton	MW-16	Nitrogen/Nitra	17.000	10.000	11/16/2015
1372	Powerton	MW-16	Nitrogen/Nitra	16.000	10.000	2/24/2016
1373	Powerton	MW-16	Nitrogen/Nitra	22.000	10.000	5/16/2016
1374	Powerton	MW-16	Nitrogen/Nitra	25.000	10.000	8/19/2016
1375	Powerton	MW-16	Nitrogen/Nitra	27.000	10.000	11/16/2016
1376	Powerton	MW-16	Nitrogen/Nitra	23.000	10.000	2/15/2017
1377	Powerton	MW-16	Nitrogen/Nitra	27.000	10.000	5/2/2017
1378	Waukegan	MW-01	arsenic	0.031	0.010	3/10/2014
1379	Waukegan	MW-01	arsenic	0.036	0.010	5/16/2014
1380	Waukegan	MW-01	arsenic	0.019	0.010	8/21/2014
1381	Waukegan	MW-01	arsenic	0.210	0.010	11/6/2014
1382	Waukegan	MW-01	arsenic	0.050	0.010	2/17/2015
1383	Waukegan	MW-01	arsenic	0.056	0.010	4/21/2015
1384	Waukegan	MW-01	arsenic	0.034	0.010	8/12/2015
1385	Waukegan	MW-01	arsenic	0.073	0.010	11/2/2015
1386	Waukegan	MW-01	arsenic	0.120	0.010	3/1/2016
1387	Waukegan	MW-01	arsenic	0.110	0.010	5/4/2016
1388	Waukegan	MW-01	arsenic	0.120	0.010	8/23/2016
1389	Waukegan	MW-01	arsenic	0.150	0.010	12/5/2016
1390	Waukegan	MW-01	arsenic	0.140	0.010	2/21/2017
1391	Waukegan	MW-01	arsenic	0.110	0.010	5/15/2017
1392	Waukegan	MW-01	boron	2.200	2.000	11/6/2014
1393	Waukegan	MW-01	boron	2.100	2.000	5/4/2016
1394	Waukegan	MW-01	boron	2.100	2.000	8/23/2016
1395	Waukegan	MW-01	boron	2.100	2.000	2/21/2017
1396	Waukegan	MW-01	boron	2.300	2.000	5/15/2017
1397	Waukegan	MW-01	Vanadium	0.120	0.049	2/17/2015
1398	Waukegan	MW-01	Vanadium	0.091	0.049	4/21/2015

1399	Waukegan	MW-01	Vanadium	0.092	0.049	8/12/2015
1400	Waukegan	MW-01	Vanadium	0.100	0.049	11/2/2015
1401	Waukegan	MW-01	Vanadium	0.071	0.049	3/1/2016
1402	Waukegan	MW-01	Vanadium	0.071	0.049	5/4/2016
1403	Waukegan	MW-01	Vanadium	0.095	0.049	8/23/2016
1404	Waukegan	MW-01	Vanadium	0.091	0.049	12/5/2016
1405	Waukegan	MW-02	arsenic	0.310	0.010	3/10/2014
1406	Waukegan	MW-02	arsenic	0.036	0.010	5/15/2014
1407	Waukegan	MW-02	arsenic	0.019	0.010	8/21/2014
1408	Waukegan	MW-02	arsenic	0.210	0.010	11/6/2014
1409	Waukegan	MW-02	arsenic	0.050	0.010	2/17/2015
1410	Waukegan	MW-02	arsenic	0.056	0.010	4/21/2015
1411	Waukegan	MW-02	arsenic	0.042	0.010	8/12/2015
1412	Waukegan	MW-02	arsenic	0.015	0.010	11/2/2015
1413	Waukegan	MW-02	arsenic	0.015	0.010	12/5/2016
1414	Waukegan	MW-02	arsenic	0.026	0.010	2/21/2017
1415	Waukegan	MW-02	arsenic	0.016	0.010	5/15/2017
1416	Waukegan	MW-02	boron	2.800	2.000	3/10/2014
1417	Waukegan	MW-02	boron	2.600	2.000	5/16/2014
1418	Waukegan	MW-02	boron	3.000	2.000	8/21/2014
1419	Waukegan	MW-02	boron	3.000	2.000	11/6/2014
1420	Waukegan	MW-02	boron	3.200	2.000	2/17/2015
1421	Waukegan	MW-02	boron	2.900	2.000	4/21/2015
1422	Waukegan	MW-02	boron	2.500	2.000	8/12/2015
1423	Waukegan	MW-02	boron	2.500	2.000	11/2/2015
1424	Waukegan	MW-02	boron	3.600	2.000	3/1/2016
1425	Waukegan	MW-02	boron	3.300	2.000	5/4/2016
1426	Waukegan	MW-02	boron	3.000	2.000	8/23/2016
1427	Waukegan	MW-02	boron	3.000	2.000	12/5/2016
1428	Waukegan	MW-02	boron	2.900	2.000	2/21/2017
1429	Waukegan	MW-02	boron	3.400	2.000	5/15/2017
1430	Waukegan	MW-02	manganese	0.160	0.150	5/15/2014
1431	Waukegan	MW-03	arsenic	0.016	0.010	2/21/2017
1432	Waukegan	MW-03	boron	2.300	2.000	11/6/2014
1433	Waukegan	MW-03	boron	2.700	2.000	3/1/2016
1434	Waukegan	MW-03	boron	2.400	2.000	5/4/2016
1435	Waukegan	MW-03	boron	2.700	2.000	12/5/2016
1436	Waukegan	MW-03	boron	2.100	2.000	2/21/2017
1437	Waukegan	MW-03	boron	3.500	2.000	5/16/2017
1438	Waukegan	MW-04	arsenic	0.018	0.010	2/22/2017
1439	Waukegan	MW-04	boron	3.000	2.000	3/11/2014
1440	Waukegan	MW-04	boron	2.700	2.000	5/16/2014
1441	Waukegan	MW-04	boron	2.900	2.000	12/5/2016
1442	Waukegan	MW-04	boron	2.400	2.000	2/22/2017
1443	Waukegan	MW-04	boron	2.600	2.000	5/16/2017
1444	Waukegan	MW-05	arsenic	0.017	0.010	4/20/2015
1445	Waukegan	MW-05	arsenic	0.013	0.010	12/7/2016
1446	Waukegan	MW-05	arsenic	0.040	0.010	2/22/2017
1447	Waukegan	MW-05	boron	31.000	2.000	3/11/2014
1448	Waukegan	MW-05	boron	36.000	2.000	5/16/2014
1449	Waukegan	MW-05	boron	35.000	2.000	8/21/2014
1450	Waukegan	MW-05	boron	36.000	2.000	11/5/2014

1451	Waukegan	MW-05	boron	32.000	2.000	2/17/2015
1452	Waukegan	MW-05	boron	24.000	2.000	4/20/2015
1453	Waukegan	MW-05	boron	11.000	2.000	8/13/2015
1454	Waukegan	MW-05	boron	12.000	2.000	11/3/2015
1455	Waukegan	MW-05	boron	14.000	2.000	3/2/2016
1456	Waukegan	MW-05	boron	23.000	2.000	5/2/2016
1457	Waukegan	MW-05	boron	43.000	2.000	8/24/2016
1458	Waukegan	MW-05	boron	49.000	2.000	12/7/2016
1459	Waukegan	MW-05	boron	5.000	2.000	2/22/2017
1460	Waukegan	MW-05	boron	7.700	2.000	5/15/2017
1461	Waukegan	MW-05	chloride	270.000	200.000	4/20/2015
1462	Waukegan	MW-05	chloride	720.000	200.000	8/13/2015
1463	Waukegan	MW-05	chloride	370.000	200.000	11/3/2015
1464	Waukegan	MW-05	chloride	300.000	200.000	3/2/2016
1465	Waukegan	MW-05	iron	5.500	5.000	3/11/2014
1466	Waukegan	MW-05	iron	5.500	5.000	5/16/2014
1467	Waukegan	MW-05	iron	8.600	5.000	11/5/2014
1468	Waukegan	MW-05	iron	7.200	5.000	2/17/2015
1469	Waukegan	MW-05	iron	6.900	5.000	4/20/2015
1470	Waukegan	MW-05	iron	13.000	5.000	8/24/2016
1471	Waukegan	MW-05	iron	8.900	5.000	12/7/2016
1472	Waukegan	MW-05	iron	15.000	5.000	2/22/2017
1473	Waukegan	MW-05	manganese	0.620	0.150	3/11/2014
1474	Waukegan	MW-05	manganese	0.490	0.150	5/16/2014
1475	Waukegan	MW-05	manganese	0.650	0.150	8/21/2014
1476	Waukegan	MW-05	manganese	0.620	0.150	11/5/2014
1477	Waukegan	MW-05	manganese	0.460	0.150	2/17/2015
1478	Waukegan	MW-05	manganese	0.630	0.150	4/20/2015
1479	Waukegan	MW-05	manganese	0.180	0.150	8/13/2015
1480	Waukegan	MW-05	manganese	0.200	0.150	11/3/2015
1481	Waukegan	MW-05	manganese	0.170	0.150	3/2/2016
1482	Waukegan	MW-05	manganese	0.320	0.150	5/2/2016
1483	Waukegan	MW-05	manganese	0.650	0.150	8/24/2016
1484	Waukegan	MW-05	manganese	0.530	0.150	12/7/2016
1485	Waukegan	MW-05	manganese	0.540	0.150	2/22/2017
1486	Waukegan	MW-05	sulfate	640.000	400.000	3/11/2014
1487	Waukegan	MW-05	sulfate	630.000	400.000	5/16/2014
1488	Waukegan	MW-05	sulfate	640.000	400.000	8/21/2014
1489	Waukegan	MW-05	sulfate	840.000	400.000	11/5/2014
1490	Waukegan	MW-05	sulfate	660.000	400.000	2/14/2015
1491	Waukegan	MW-05	sulfate	700.000	400.000	4/20/2015
1492	Waukegan	MW-05	sulfate	1200.000	400.000	8/13/2015
1493	Waukegan	MW-05	sulfate	910.000	400.000	11/3/2015
1494	Waukegan	MW-05	sulfate	700.000	400.000	2/22/2017
1495	Waukegan	MW-05	sulfate	1100.000	400.000	5/16/2017
1496	Waukegan	MW-05	TDS	1400.000	1200.000	3/11/2014
1497	Waukegan	MW-05	TDS	1500.000	1200.000	5/16/2014
1498	Waukegan	MW-05	TDS	1600.000	1200.000	8/21/2014
1499	Waukegan	MW-05	TDS	1500.000	1200.000	11/5/2014
1500	Waukegan	MW-05	TDS	11700.000	1200.000	2/14/2015
1501	Waukegan	MW-05	TDS	2200.000	1200.000	4/20/2015
1502	Waukegan	MW-05	TDS	3500.000	1200.000	8/13/2015

1503	Waukegan	MW-05	TDS	2700.000	1200.000	11/3/2015
1504	Waukegan	MW-05	TDS	1700.000	1200.000	2/22/2017
1505	Waukegan	MW-05	TDS	2600.000	1200.000	5/16/2017
1506	Waukegan	MW-06	boron	2.200	2.000	5/15/2014
1507	Waukegan	MW-06	boron	2.900	2.000	8/21/2014
1508	Waukegan	MW-06	boron	3.700	2.000	11/5/2014
1509	Waukegan	MW-06	boron	3.500	2.000	2/18/2015
1510	Waukegan	MW-06	boron	8.900	2.000	2/22/2017
1511	Waukegan	MW-06	iron	9.200	5.000	8/21/2014
1512	Waukegan	MW-06	iron	6.700	5.000	11/5/2014
1513	Waukegan	MW-06	iron	7.600	5.000	2/18/2015
1514	Waukegan	MW-06	iron	5.200	5.000	11/3/2015
1515	Waukegan	MW-06	iron	12.000	5.000	2/22/2017
1516	Waukegan	MW-06	iron	7.700	5.000	5/15/2017
1517	Waukegan	MW-06	manganese	0.170	0.150	5/15/2014
1518	Waukegan	MW-06	manganese	0.380	0.150	8/21/2014
1519	Waukegan	MW-06	manganese	0.440	0.150	11/5/2014
1520	Waukegan	MW-06	manganese	0.380	0.150	2/18/2015
1521	Waukegan	MW-06	manganese	0.190	0.150	4/20/2015
1522	Waukegan	MW-06	manganese	0.240	0.150	8/12/2015
1523	Waukegan	MW-06	manganese	0.260	0.150	11/3/2015
1524	Waukegan	MW-06	manganese	0.470	0.150	2/22/2017
1525	Waukegan	MW-06	manganese	0.200	0.150	5/15/2017
1526	Waukegan	MW-07	arsenic	0.011	0.010	8/21/2014
1527	Waukegan	MW-07	arsenic	0.011	0.010	2/17/2015
1528	Waukegan	MW-07	arsenic	0.014	0.010	4/20/2015
1529	Waukegan	MW-07	arsenic	0.011	0.010	11/3/2015
1530	Waukegan	MW-07	boron	39.000	2.000	3/10/2014
1531	Waukegan	MW-07	boron	27.000	2.000	5/15/2014
1532	Waukegan	MW-07	boron	40.000	2.000	8/21/2014
1533	Waukegan	MW-07	boron	41.000	2.000	11/15/2014
1534	Waukegan	MW-07	boron	37.000	2.000	2/17/2015
1535	Waukegan	MW-07	boron	37.000	2.000	4/20/2015
1536	Waukegan	MW-07	boron	32.000	2.000	8/12/2015
1537	Waukegan	MW-07	boron	26.000	2.000	11/3/2015
1538	Waukegan	MW-07	boron	49.000	2.000	2/22/2017
1539	Waukegan	MW-07	boron	50.000	2.000	5/16/2017
1540	Waukegan	MW-07	iron	11.000	5.000	3/10/2014
1541	Waukegan	MW-07	iron	12.000	5.000	5/15/2014
1542	Waukegan	MW-07	iron	11.000	5.000	8/21/2014
1543	Waukegan	MW-07	iron	12.000	5.000	2/17/2015
1544	Waukegan	MW-07	iron	14.000	5.000	4/20/2015
1545	Waukegan	MW-07	iron	11.000	5.000	8/12/2015
1546	Waukegan	MW-07	iron	11.000	5.000	11/3/2015
1547	Waukegan	MW-07	iron	18.000	5.000	2/22/2017
1548	Waukegan	MW-07	iron	19.000	5.000	5/16/2017
1549	Waukegan	MW-07	manganese	0.460	0.150	3/10/2014
1550	Waukegan	MW-07	manganese	0.600	0.150	5/15/2014
1551	Waukegan	MW-07	manganese	0.400	0.150	8/21/2014
1552	Waukegan	MW-07	manganese	0.450	0.150	2/17/2015
1553	Waukegan	MW-07	manganese	0.620	0.150	4/20/2015
1554	Waukegan	MW-07	manganese	0.430	0.150	8/12/2015

1555	Waukegan	MW-07	manganese	0.400	0.150	11/3/2015
1556	Waukegan	MW-07	manganese	0.620	0.150	2/22/2017
1557	Waukegan	MW-07	manganese	0.690	0.150	5/16/2017
1558	Waukegan	MW-07	sulfate	540.000	400.000	3/10/2014
1559	Waukegan	MW-07	sulfate	880.000	400.000	5/15/2014
1560	Waukegan	MW-07	sulfate	690.000	400.000	8/21/2014
1561	Waukegan	MW-07	sulfate	710.000	400.000	2/17/2015
1562	Waukegan	MW-07	sulfate	470.000	400.000	4/20/2015
1563	Waukegan	MW-07	sulfate	760.000	400.000	8/12/2015
1564	Waukegan	MW-07	sulfate	770.000	400.000	11/3/2015
1565	Waukegan	MW-07	TDS	1600.000	1200.000	3/10/2014
1566	Waukegan	MW-07	TDS	1300.000	1200.000	5/15/2014
1567	Waukegan	MW-07	TDS	1600.000	1200.000	8/21/2014
1568	Waukegan	MW-07	TDS	1600.000	1200.000	2/17/2015
1569	Waukegan	MW-07	TDS	1400.000	1200.000	4/20/2015
1570	Waukegan	MW-07	TDS	1700.000	1200.000	8/12/2015
1571	Waukegan	MW-07	TDS	1500.000	1200.000	11/3/2015
1572	Will	MW-01	manganese	0.260	0.150	5/20/2014
1573	Will	MW-01	manganese	0.240	0.150	8/13/2014
1574	Will	MW-01	manganese	0.170	0.150	10/21/2014
1575	Will	MW-02	arsenic	0.013	0.010	10/20/2014
1576	Will	MW-02	boron	2.800	2.000	5/1/2014
1577	Will	MW-02	boron	3.000	2.000	8/13/2014
1578	Will	MW-02	boron	3.600	2.000	10/20/2014
1579	Will	MW-02	boron	3.800	2.000	2/4/2015
1580	Will	MW-02	boron	3.800	2.000	5/1/2015
1581	Will	MW-02	sulfate	510.000	400.000	10/20/2014
1582	Will	MW-02	sulfate	460.000	400.000	5/1/2015
1583	Will	MW-03	boron	3.300	2.000	5/21/2014
1584	Will	MW-03	boron	3.500	2.000	8/12/2014
1585	Will	MW-03	boron	3.600	2.000	10/20/2014
1586	Will	MW-03	boron	2.900	2.000	2/4/2015
1587	Will	MW-03	boron	4.100	2.000	7/28/2015
1588	Will	MW-03	boron	3.000	2.000	11/10/2015
1589	Will	MW-03	boron	3.000	2.000	2/17/2016
1590	Will	MW-03	boron	2.900	2.000	5/25/2016
1591	Will	MW-03	boron	3.100	2.000	8/11/2016
1592	Will	MW-03	boron	3.300	2.000	10/27/2016
1593	Will	MW-03	boron	3.000	2.000	2/1/2017
1594	Will	MW-03	boron	4.100	2.000	5/11/2017
1595	Will	MW-03	manganese	0.250	0.150	5/21/2014
1596	Will	MW-03	manganese	0.160	0.150	8/12/2014
1597	Will	MW-03	manganese	0.290	0.150	10/20/2014
1598	Will	MW-03	manganese	0.470	0.150	2/4/2015
1599	Will	MW-03	manganese	0.430	0.150	5/1/2015
1600	Will	MW-03	manganese	0.280	0.150	7/28/2015
1601	Will	MW-03	manganese	0.420	0.150	11/10/2015
1602	Will	MW-03	manganese	0.330	0.150	2/17/2016
1603	Will	MW-03	manganese	0.350	0.150	5/25/2016
1604	Will	MW-03	manganese	0.410	0.150	8/11/2016
1605	Will	MW-03	manganese	0.490	0.150	10/27/2016
1606	Will	MW-03	manganese	0.330	0.150	2/1/2017

1607	Will	MW-03	manganese	0.700	0.150	5/11/2017
1608	Will	MW-03	sulfate	560.000	400.000	5/21/2014
1609	Will	MW-03	sulfate	570.000	400.000	8/12/2014
1610	Will	MW-03	sulfate	570.000	400.000	10/20/2014
1611	Will	MW-03	sulfate	860.000	400.000	5/1/2015
1612	Will	MW-03	sulfate	520.000	400.000	7/28/2015
1613	Will	MW-03	sulfate	870.000	400.000	11/11/2015
1614	Will	MW-03	sulfate	1800.000	400.000	2/17/2016
1615	Will	MW-03	sulfate	1300.000	400.000	5/25/2016
1616	Will	MW-03	sulfate	880.000	400.000	8/11/2016
1617	Will	MW-03	sulfate	1400.000	400.000	10/27/2016
1618	Will	MW-03	sulfate	1200.000	400.000	2/1/2017
1619	Will	MW-03	sulfate	510.000	400.000	5/11/2017
1620	Will	MW-03	TDS	2300.000	1200.000	5/1/2015
1621	Will	MW-03	TDS	3200.000	1200.000	7/28/2015
1622	Will	MW-03	TDS	1900.000	1200.000	11/11/2015
1623	Will	MW-03	TDS	3200.000	1200.000	2/17/2016
1624	Will	MW-03	TDS	2700.000	1200.000	5/25/2016
1625	Will	MW-03	TDS	2200.000	1200.000	8/11/2016
1626	Will	MW-03	TDS	2800.000	1200.000	10/27/2016
1627	Will	MW-03	TDS	2700.000	1200.000	2/1/2017
1628	Will	MW-03	TDS	2800.000	1200.000	5/11/2017
1629	Will	MW-04	boron	4.200	2.000	5/21/2014
1630	Will	MW-04	boron	4.800	2.000	8/13/2014
1631	Will	MW-04	boron	4.500	2.000	10/20/2014
1632	Will	MW-04	boron	3.900	2.000	2/4/2015
1633	Will	MW-04	boron	4.000	2.000	5/1/2015
1634	Will	MW-04	manganese	0.490	0.150	5/21/2014
1635	Will	MW-04	manganese	0.880	0.150	8/13/2014
1636	Will	MW-04	manganese	0.640	0.150	10/20/2014
1637	Will	MW-04	manganese	0.520	0.150	2/4/2015
1638	Will	MW-04	manganese	0.450	0.150	5/1/2015
1639	Will	MW-04	sulfate	1100.000	400.000	5/21/2014
1640	Will	MW-04	sulfate	1200.000	400.000	8/13/2014
1641	Will	MW-04	sulfate	1600.000	400.000	10/20/2014
1642	Will	MW-04	sulfate	1100.000	400.000	2/4/2015
1643	Will	MW-04	sulfate	860.000	400.000	5/1/2015
1644	Will	MW-04	TDS	2500.000	1200.000	5/21/2014
1645	Will	MW-04	TDS	2200.000	1200.000	8/13/2014
1646	Will	MW-04	TDS	2600.000	1200.000	10/20/2014
1647	Will	MW-04	TDS	2600.000	1200.000	2/4/2015
1648	Will	MW-04	TDS	2300.000	1200.000	5/1/2015
1649	Will	MW-05	boron	2.900	2.000	5/21/2014
1650	Will	MW-05	boron	2.700	2.000	8/12/2014
1651	Will	MW-05	boron	4.700	2.000	10/20/2014
1652	Will	MW-05	boron	2.400	2.000	2/3/2015
1653	Will	MW-05	boron	3.700	2.000	5/1/2015
1654	Will	MW-05	boron	5.300	2.000	7/28/2015
1655	Will	MW-05	boron	5.900	2.000	11/11/2015
1656	Will	MW-05	boron	4.100	2.000	2/18/2016
1657	Will	MW-05	boron	3.700	2.000	5/26/2016
1658	Will	MW-05	boron	4.100	2.000	8/10/2016

1659	Will	MW-05	boron	3.900	2.000	10/26/2016
1660	Will	MW-05	boron	4.200	2.000	2/1/2017
1661	Will	MW-05	boron	3.500	2.000	5/11/2017
1662	Will	MW-05	manganese	0.170	0.150	11/11/2015
1663	Will	MW-05	sulfate	1700.000	400.000	5/21/2014
1664	Will	MW-05	sulfate	610.000	400.000	8/12/2014
1665	Will	MW-05	sulfate	840.000	400.000	10/20/2014
1666	Will	MW-05	sulfate	430.000	400.000	2/3/2015
1667	Will	MW-05	sulfate	480.000	400.000	5/1/2015
1668	Will	MW-05	sulfate	770.000	400.000	7/28/2015
1669	Will	MW-05	sulfate	780.000	400.000	11/11/2015
1670	Will	MW-05	sulfate	730.000	400.000	2/18/2016
1671	Will	MW-05	sulfate	600.000	400.000	5/26/2016
1672	Will	MW-05	sulfate	530.000	400.000	8/10/2016
1673	Will	MW-05	sulfate	500.000	400.000	2/1/2017
1674	Will	MW-05	sulfate	470.000	400.000	5/11/2017
1675	Will	MW-05	TDS	1600.000	1200.000	5/21/2014
1676	Will	MW-05	TDS	1400.000	1200.000	8/12/2014
1677	Will	MW-05	TDS	2100.000	1200.000	10/20/2014
1678	Will	MW-05	TDS	1600.000	1200.000	5/1/2015
1679	Will	MW-05	TDS	2000.000	1200.000	7/28/2015
1680	Will	MW-05	TDS	1900.000	1200.000	11/11/2015
1681	Will	MW-05	TDS	1700.000	1200.000	2/18/2016
1682	Will	MW-05	TDS	1500.000	1200.000	5/26/2016
1683	Will	MW-05	TDS	1600.000	1200.000	2/1/2017
1684	Will	MW-06	boron	2.900	2.000	5/20/2014
1685	Will	MW-06	boron	2.800	2.000	8/12/2014
1686	Will	MW-06	boron	3.400	2.000	10/20/2014
1687	Will	MW-06	boron	3.200	2.000	2/3/2015
1688	Will	MW-06	boron	3.000	2.000	4/30/2015
1689	Will	MW-06	boron	3.100	2.000	7/27/2015
1690	Will	MW-06	boron	3.600	2.000	7/28/2015
1691	Will	MW-06	boron	2.900	2.000	11/9/2015
1692	Will	MW-06	boron	3.800	2.000	2/17/2016
1693	Will	MW-06	boron	2.400	2.000	2/18/2016
1694	Will	MW-06	boron	2.900	2.000	5/26/2016
1695	Will	MW-06	boron	2.800	2.000	8/9/2016
1696	Will	MW-06	boron	3.600	2.000	8/11/2016
1697	Will	MW-06	boron	3.200	2.000	10/25/2016
1698	Will	MW-06	boron	3.900	2.000	10/26/2016
1699	Will	MW-06	boron	3.700	2.000	1/31/2017
1700	Will	MW-06	boron	2.900	2.000	2/1/2017
1701	Will	MW-06	boron	4.300	2.000	5/9/2017
1702	Will	MW-06	boron	3.000	2.000	5/11/2017
1703	Will	MW-06	sulfate	420.000	400.000	10/20/2014
1704	Will	MW-06	sulfate	440.000	400.000	4/30/2015
1705	Will	MW-06	sulfate	420.000	400.000	7/27/2015
1706	Will	MW-06	sulfate	420.000	400.000	11/9/2015
1707	Will	MW-06	sulfate	700.000	400.000	2/17/2016
1708	Will	MW-06	sulfate	530.000	400.000	5/24/2016
1709	Will	MW-06	sulfate	510.000	400.000	10/25/2016
1710	Will	MW-06	sulfate	500.000	400.000	1/31/2017

1711	Will	MW-06	sulfate	540.000	400.000	5/9/2017
1712	Will	MW-07	boron	4.800	2.000	5/20/2014
1713	Will	MW-07	boron	3.900	2.000	8/12/2014
1714	Will	MW-07	boron	5.100	2.000	10/21/2014
1715	Will	MW-07	boron	3.000	2.000	2/3/2015
1716	Will	MW-07	boron	3.300	2.000	4/30/2015
1717	Will	MW-07	sulfate	540.000	400.000	5/20/2014
1718	Will	MW-07	sulfate	570.000	400.000	8/12/2014
1719	Will	MW-07	sulfate	680.000	400.000	10/21/2014
1720	Will	MW-07	sulfate	440.000	400.000	4/30/2015
1721	Will	MW-07	TDS	1300.000	1200.000	5/20/2014
1722	Will	MW-07	TDS	1300.000	1200.000	8/12/2014
1723	Will	MW-07	TDS	1500.000	1200.000	10/21/2014
1724	Will	MW-08	arsenic	0.014	0.010	8/12/2014
1725	Will	MW-08	boron	2.500	2.000	5/20/2014
1726	Will	MW-08	boron	2.400	2.000	8/12/2014
1727	Will	MW-08	boron	2.800	2.000	10/21/2014
1728	Will	MW-08	boron	2.300	2.000	2/3/2015
1729	Will	MW-08	boron	2.300	2.000	4/30/2015
1730	Will	MW-08	boron	2.800	2.000	7/27/2015
1731	Will	MW-08	boron	4.000	2.000	11/9/2015
1732	Will	MW-08	boron	2.800	2.000	2/16/2016
1733	Will	MW-08	boron	2.300	2.000	5/24/2016
1734	Will	MW-08	boron	2.600	2.000	8/9/2016
1735	Will	MW-08	boron	4.100	2.000	10/25/2016
1736	Will	MW-08	boron	2.500	2.000	1/31/2017
1737	Will	MW-08	manganese	0.390	0.150	2/20/2014
1738	Will	MW-08	manganese	0.350	0.150	5/20/2014
1739	Will	MW-08	manganese	0.300	0.150	8/12/2014
1740	Will	MW-08	manganese	0.440	0.150	10/21/2014
1741	Will	MW-08	manganese	0.310	0.150	2/3/2015
1742	Will	MW-08	manganese	0.280	0.150	4/30/2015
1743	Will	MW-08	manganese	0.310	0.150	7/27/2015
1744	Will	MW-08	manganese	0.250	0.150	11/9/2015
1745	Will	MW-08	manganese	0.240	0.150	2/16/2016
1746	Will	MW-08	manganese	0.360	0.150	5/24/2016
1747	Will	MW-08	manganese	0.270	0.150	8/9/2016
1748	Will	MW-08	manganese	0.620	0.150	10/25/2016
1749	Will	MW-08	manganese	0.240	0.150	1/31/2017
1750	Will	MW-08	sulfate	520.000	400.000	4/30/2015
1751	Will	MW-08	sulfate	650.000	400.000	7/27/2015
1752	Will	MW-08	sulfate	800.000	400.000	11/9/2015
1753	Will	MW-08	sulfate	750.000	400.000	2/16/2016
1754	Will	MW-08	sulfate	580.000	400.000	5/24/2016
1755	Will	MW-08	sulfate	520.000	400.000	8/9/2016
1756	Will	MW-08	sulfate	680.000	400.000	10/25/2016
1757	Will	MW-08	sulfate	450.000	400.000	1/31/2017
1758	Will	MW-08	TDS	1300.000	1200.000	2/20/2014
1759	Will	MW-08	TDS	1400.000	1200.000	5/20/2014
1760	Will	MW-08	TDS	1500.000	1200.000	10/21/2014
1761	Will	MW-08	TDS	1400.000	1200.000	2/3/2015
1762	Will	MW-08	TDS	1400.000	1200.000	4/30/2015

1763	Will	MW-08	TDS	1600.000	1200.000	11/9/2015
1764	Will	MW-08	TDS	1600.000	1200.000	2/16/2016
1765	Will	MW-08	TDS	1400.000	1200.000	5/24/2016
1766	Will	MW-08	TDS	1300.000	1200.000	8/9/2016
1767	Will	MW-08	TDS	1700.000	1200.000	10/25/2016
1768	Will	MW-08	TDS	1500.000	1200.000	1/31/2017
1769	Will	MW-09	arsenic	0.014	0.010	4/30/2015
1770	Will	MW-09	arsenic	0.017	0.010	11/10/2015
1771	Will	MW-09	arsenic	0.011	0.010	8/10/2016
1772	Will	MW-09	arsenic	0.025	0.010	10/26/2016
1773	Will	MW-09	arsenic	0.013	0.010	2/2/2017
1774	Will	MW-09	boron	2.100	2.000	11/11/2015
1775	Will	MW-09	boron	2.600	2.000	10/25/2016
1776	Will	MW-09	chloride	250.000	200.000	5/20/2014
1777	Will	MW-09	chloride	210.000	200.000	8/12/2014
1778	Will	MW-09	chloride	310.000	200.000	4/30/2015
1779	Will	MW-09	chloride	230.000	200.000	7/27/2015
1780	Will	MW-09	chloride	250.000	200.000	1/31/2017
1781	Will	MW-09	chloride	360.000	200.000	5/9/2017
1782	Will	MW-09	sulfate	430.000	400.000	10/21/2014
1783	Will	MW-10	arsenic	0.012	0.010	2/3/2015
1784	Will	MW-10	arsenic	0.014	0.010	4/30/2015
1785	Will	MW-10	boron	2.200	2.000	5/20/2014
1786	Will	MW-10	boron	2.100	2.000	8/13/2014
1787	Will	MW-10	boron	3.300	2.000	10/20/2014
1788	Will	MW-10	boron	3.300	2.000	2/3/2015
1789	Will	MW-10	boron	3.600	2.000	4/20/2015
1790	Will	MW-10	boron	3.100	2.000	7/27/2015
1791	Will	MW-10	boron	4.400	2.000	11/10/2015
1792	Will	MW-10	boron	3.600	2.000	2/16/2016
1793	Will	MW-10	boron	3.800	2.000	5/25/2016
1794	Will	MW-10	boron	3.700	2.000	8/10/2016
1795	Will	MW-10	boron	3.500	2.000	10/26/2016
1796	Will	MW-10	boron	3.200	2.000	2/2/2017
1797	Will	MW-10	boron	3.000	2.000	5/10/2017
1798	Will	MW-10	manganese	0.250	0.150	10/20/2014
1799	Will	MW-10	manganese	0.380	0.150	2/3/2015
1800	Will	MW-10	manganese	0.290	0.150	4/20/2015
1801	Will	MW-10	manganese	0.190	0.150	7/27/2015
1802	Will	MW-10	manganese	0.260	0.150	11/11/2015
1803	Will	MW-10	manganese	0.250	0.150	2/16/2016
1804	Will	MW-10	manganese	0.200	0.150	5/25/2016
1805	Will	MW-10	manganese	0.250	0.150	8/10/2016
1806	Will	MW-10	manganese	0.430	0.150	10/26/2016
1807	Will	MW-10	manganese	0.320	0.150	2/2/2017
1808	Will	MW-10	manganese	0.210	0.150	5/10/2017

Summary Table 1: Groundwater monitoring results greater than Illinois Class I Groundwater Quality Standards as presented in Exhibit B to Complainants Jan 14, 2015 amended complaint

	Joliet 29	Powerton	Waukegan	Will	**TOTAL**
antimony	6	1	1	3	**11**
arsenic		46	24	6	**76**
boron	2	33	51	102	**188**
chloride	84	33	5	10	**132**
iron	11	30	11		**52**
manganese	18	169	23	74	**284**
nickel					
nitrogen/nitrate		12	1		**13**
selenium		2	2	1	**5**
sulfate	16	50	18	66	**150**
TDS	18	58	18	35	**129**
thallium		8			**8**
vanadium					
TOTAL	**155**	**442**	**154**	**297**	**1048**

Summary Table 2: Combined list of groundwater monitoring results greater than Illinois Class I Groundwater Quality Standards (more recent dates)

	Joliet 29	Powerton	Waukegan	Will	**TOTAL**
antimony					
arsenic		24	34	9	**67**
boron		25	59	86	**170**
chloride	25	18	4	6	**53**
iron	9	10	23		**42**
manganese	14	77	32	46	**169**
nickel	4				**4**
nitrogen/nitrate		12			**12**
selenium					
sulfate	4	44	17	53	**118**
TDS	14	49	17	37	**117**
thallium					
vanadium			8		**8**
TOTAL	**70**	**259**	**194**	**237**	**760**

Results tabulated above are for dissolved metals only and do not include total recoverable metals results.

Summary Table 3: Combined list of groundwater monitoring results greater than Illinois Class I Groundwater Quality Standards (2010-2017)					
	Joliet 29	Powerton	Waukegan	Will	**TOTAL**
antimony	6	1	1	3	**11**
arsenic		70	58	15	**143**
boron	2	58	110	188	**358**
chloride	109	51	9	16	**185**
iron	20	40	34		**94**
manganese	32	246	55	120	**453**
nickel	4				**4**
nitrogen/nitrate		24	1		**25**
selenium		2	2	1	**5**
sulfate	20	94	35	119	**268**
TDS	32	107	35	72	**246**
thallium		8			**8**
vanadium			8		**8**
TOTAL	**225**	**701**	**348**	**534**	**1808**

Results tabulated above are for dissolved metals only and do not include total recoverable metals results.

ATTACHMENT B:

COMPLAINANTS' EXHIBIT 9B

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July 27, 2012

VIA OVERNIGHT MAIL

Illinois EPA
Division of Public Water Supplies
Attn: Andrea Rhodes, CAS #19
P.O. Box 19276
Springfield, IL 62794-9276

Re: Violation Notice: Midwest Generation, LLC, Powerton Generating Station
Identification No.: 6282
Violation Notice No.: W-2012-00057

Dear Ms. Rhodes:

In response to the above-referenced June 11, 2012 Violation Notice ("VN"), received on June 14, 2012, this written response is timely submitted on behalf of the Midwest Generation, LLC ("MWG"), Powerton Generating Station ("Powerton"). MWG also requests a meeting with the Illinois Environmental Protection Agency ("Illinois EPA" or the "Agency") to discuss the VN and information provided in this response.

MWG regrets that the Illinois EPA decided to issue the VN because MWG has tried to work cooperatively with the Agency concerning the hydrogeologic assessment of the coal ash ponds at Powerton even though it had significant concerns and objections to how the VN has proceeded in this matter.[1] Nevertheless, MWG complied with the Agency's request that it conduct a hydrogeologic assessment of the area around the coal ash ponds and followed its requirements and comments for how the hydrogeologic assessment should be conducted, even though it was under no legal obligation to do so.[2] At no time however did MWG agree that the scope and nature of the hydrological assessment the Agency required it to perform would provide any basis for concluding that the ash ponds were impacting groundwater. The alleged

[1] *See, e.g.,* MWG (B. Constantelos) letter to Illinois EPA (A. Keller) dated July 15, 2009. MWG is also working cooperatively with the USEPA with regards to the Coal Combustion Residuals Proposed Rules, EPA-HQ-RCRA-2009-0640, and is trying to coordinate the responses and requirements of both Agencies. USEPA first issued the proposed rules on June 21, 2010, and requested additional comments and information on Oct. 12, 2011. The additional information comment period closed on November 14, 2011, and MWG is now waiting for the USEPA to issue the final rule.

[2] MWG continues to reserve its objection that the Illinois EPA did not have the legal authority to require the hydrological assessments of the ash ponds under Sections 4 or 12 of the Illinois Environmental Protection Act (the "Act") or the Groundwater Quality Regulations, 35 Ill. Adm. Code Part 620.

Comp. Ex. 9B

violations in the VN are based solely on the results of the hydrogeologic assessment MWG performed at the Agency's request. The results of the hydrogeologic assessment do not show that the coal ash ponds at the Powerton Station are impacting the groundwater and do not provide the necessary evidence to support the alleged violations contained in the VN.

Well prior to the issuance of this VN, MWG met with the Agency to discuss the groundwater monitoring results and to discuss cooperatively how to proceed based on those results, including what additional actions, if any, the Agency believed were necessary. The Agency told MWG that it had not yet decided how to proceed. The next development was the issuance of the VN. The VN itself provides no information concerning the basis for the Agency's apparent conclusion that the ash impoundments are the cause of the alleged groundwater impacts, other than the conclusory statement that "[o]perations at ash impoundments [sic] have resulted in violations of the Groundwater Quality Standards." The VN also provides no information concerning the nature or type of corrective action which the Agency may deem acceptable to address the alleged violations. The Agency is not pursuing this matter in a way that allows MWG to prepare an effective response or a Compliance Commitment Agreement.

This letter provides a detailed response to each of the alleged violations in Attachment A of the VN to the extent possible given the lack of information provided in the VN. It also advances MWG's general objection to the legal sufficiency of the notice of the alleged violations contained in the VN. MWG maintains that the Illinois EPA cannot prove the alleged violations in the VN, and does not, by submitting this response, make any admissions of fact or law, or waive any of its defenses to those alleged violations.

I. General Objection to the Legal Sufficiency of the Violation Notice

The VN does not comply with the requirements of Section 31 of the Act. Section 31(a)(1)(B) of the Act requires the Illinois EPA to provide a detailed explanation of the violations alleged. 415 ILCS 5/31(a)(1)(B). Under the Act, MWG is entitled to notice of the specific violation charged against it and notice of the specific conduct constituting the violation.[3] The VN fails to provide adequate notice to MWG of either the alleged violations or the activities which the Agency believes are necessary to address them. The VN states that "[o]perations at ash impoundments have resulted in violations of the Groundwater Quality Standards...." (Violation Notice, Attachment A, page 1, 1st paragraph) No further description of the alleged "ash impoundments" is provided in the VN. Multiple ash impoundments exist at the Powerton Station. It is impossible to identify from the contents of the VN what operations or activities at the Powerton Station the Agency is claiming are the cause of the alleged violations, including whether it is the Agency's position that each of the Station's ash ponds, or only certain ones,

[3] *Citizens Utilities Co., v. IPCB*, 9 Ill.App.3d 158, 164, 289 N.E.2d 642, 648 (2nd Dist., 1972) (a person is entitled to notice of the specific violation charged against it and notice of the specific conduct constituting the violation). *See also, City of Pekin v. Environmental Protection Agency*, 47 Ill.App.3d 187, 192, 361 N.E.2d 889, 893 (3rd Dist., 1977.

have caused the alleged violations. Absent an accurate or complete description of the activities or operations that the Agency is alleging caused the violations, it is also not possible to identify what action might be necessary to resolve them. Attachment A to the VN states: "Included with each type of violation is an explanation of the activities that the Illinois EPA believes may resolve the violation." However, no such explanation is provided in the VN. In sum, the VN fails to comply with the legal requirement that it include a detailed explanation of the violations alleged, does not inform MWG of the specific conduct constituting the alleged violations and provides no notice of what is necessary to resolve the alleged violations. The Section 31 process is based on fundamental principles of due process. MWG should not have to speculate about what activities it allegedly engaged in that caused the violations and how to address them to resolve the alleged violations. In the absence of this material, statutorily-required information, the Agency also has effectively denied MWG's statutory right to formulate an acceptable Compliance Commitment Agreement to submit for the Agency's approval.

The VN is also deficient regarding its explanation of what laws MWG has allegedly violated. The VN solely alleges that MWG violated "Section 12" of the Act. 415 ILCS 5/12. It does not provide any further specification as to which of the provisions of Section 12 MWG has allegedly violated.

Section 12 of the Act has nine subsections, consecutively numbered (a) through (i). Each of these subsections describes a different and distinct water pollution prohibition. 415 ILCS 5/12(a)-(i). However, the VN issued to MWG does not identify which of the nine subsections the Agency is alleging MWG violated. Based on the contents of Section 12 of the Act, the Agency is taking the position that MWG violated each and every one of the provisions of Section 12. Based on the relevant facts, it is highly unlikely that this is the intent of the VN. Therefore, the VN's general reference to Section 12 of the Act, without any other explanation, is not a "detailed explanation of the violations." This is yet another example of how the VN fails to provide MWG with adequate notice as a matter of law and thereby violates MWG's due process rights.[4]

By failing to provide a detailed explanation of the violations and any explanation of the activities that the Illinois EPA believes may resolve the violations, the Illinois EPA has effectively denied MWG the opportunity to properly and thoroughly respond to the alleged violations and to make an acceptable offer to resolve them. The VN's deficiencies conflict with the intent and purpose of Section 31 of the Act, which is to avoid unnecessary litigation. Therefore, MWG respectfully requests that the Agency rescind the VN and suspend any further enforcement action unless and until it has taken the necessary actions to correct and cure the legal deficiencies in the notice of the alleged violations by following the statutory requirements under Section 31(a)(1)(B) of the Act. 415 ILCS 5/31(a)(1)(B)

[4] *See, e.g., Grigoleit Co. v. Illinois EPA*, PCB 89-184, slip op at p. 11 (November 29, 1990) (Failure to notify permit applicant of alleged violations and provide an opportunity to provide information in response was a violation of applicant's due process rights).

II. Response to Alleged Violations in the VN

Subject to and without waiving its objections to the legal sufficiency of the VN, MWG nevertheless has attempted to discern the legal basis for the alleged violations and to prepare this response in defense to those allegations based on various assumptions. MWG reserves the right to supplement this response, including by submitting a separate response should the Agency provide the legally required notice under Section 31 of the Act.

The VN alleges "[o]perations at ash impoundments" at MWG's Powerton Station have resulted in violations of certain of the Groundwater Quality Standards at the respective monitoring wells identified in the VN. (Violation Notice at Attachment A) MWG believes the Agency's use of the term "ash impoundments" is intended to refer to the structures which the Powerton Station commonly refers to as "ash ponds;" that is how they will be referred to here. The Agency further alleges that the alleged violations of the groundwater quality standards in 35 Ill. Admin. Code Part 620 also constitute violations of Section 12 of the Act and the underlying groundwater regulations in 35 Ill. Admin. Code Part 620. It is undisputable that the Agency has the burden to prove these alleged violations both in proceedings before the Illinois Pollution Control Board ("Board") and in the courts.[5] However, the groundwater monitoring data on which the Agency primarily, if not solely, relies to assert these violations is not sufficient, legally or technically, to prove that any "ash impoundments" is the source of the alleged groundwater impacts. Further, based on the existing condition of the ash ponds, it is not likely that they are a source of the alleged impacts.

To support its defense to the alleged violations, MWG has set forth below a description of: (1) the condition and use of the ash ponds at Powerton; (2) the hydrogeologic assessment performed at the Powerton Station; (3) the site hydrology; and (4) why the analytical data from the monitoring wells does not establish that the ash ponds are the source of the alleged exceedances of the groundwater standards.[6] In addition, for certain of the alleged exceedances, additional information not considered by the Agency shows that it is either more likely, or at least as likely, that the source of the alleged exceedance is something other than the ash ponds. In either case, the Agency cannot sustain its burden to prove the alleged violations.

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[5] Section 31(e) of the Act provides in relevant part: "In hearings before the Board under this Title, the burden shall be on the Agency...to show either that the respondent has caused or threatened to cause...water pollution or that the respondent has violated or threatens to violate any provision of this Act or any rule or regulation of the Board or permit or term or condition thereof." 415 ILCS 5/31(e); *Citizens Utilities v. IPCB*, 9 Ill. App. 3d 158, 164, 289 N.E.2d 642, 646 (1972) (the Agency has the burden of proof in enforcement actions).

[6] In preparing this response, MWG closely reviewed the groundwater monitoring reports previously submitted to the Agency for the monitoring wells which are identified in the VN. In the course of this review, some data transcription errors were found in the previously submitted data tables included in the groundwater monitoring reports. Copies of the corrected data tables are enclosed. The tables are annotated to identify the nature of the corrections made to the previously submitted reports. The most significant changes are: (i) consistent with previous data for MW-1, there was no boron exceedance at monitoring well MW-1 in the first quarter 2012 sampling event; (ii) there was no exceedance of selenium at wells MW-7 (4th quarter 2011), MW-9 (1st quarter 2011) and MW-13 (August 2011); and (iii) there was no exceedance of mercury at well MW-12 (4th quarter 2010).

A. The Condition of the Ash Ponds

For several reasons, the construction and operation of the Powerton ash ponds makes it unlikely that they are the cause of the alleged violations. The construction and operation of the ponds minimizes the potential for leakage from the ash ponds to groundwater.

First, the Powerton ash ponds are not disposal sites. The ash that enters the ponds is routinely removed. This operating condition limits the amount of ash accumulated over time which serves to minimize the potential for the release of ash constituents to the groundwater.

Second, unlike many other ash ponds in Illinois, two of the ash ponds at Powerton, the Ash Surge Pond and the Ash Bypass Basin are lined to prevent releases to groundwater. The third pond, the Secondary Ash Settling Basin, is not presently lined. However, as described below, there are no groundwater exceedances of coal ash constituents downgradient of the Secondary Ash Settling Basin, thus supporting the conclusion that it is not a source. When the final federal Coal Combustion Residual Rules are issued, MWG will rely on those rules to make a decision regarding any further modifications to, or the continued use of, the Secondary Ash Settling Basin.

The Ash Surge Pond at Powerton is constructed of Poz-o-Pac material which meets accepted standards for preventing the migration of constituents to the environment.[7] The permeability of the Poz-o-Pac liner is 10^{-7} cm/sec. Notably, this is the same degree of permeability that is required in the Board Regulations for constructing a new solid waste landfill where, unlike the ash ponds, waste materials are to be disposed of on a permanent basis. *See* 35 IAC 811.306(d). Pursuant to a construction permit issued by the Agency, the second ash pond, called the Ash Bypass Basin, was relined in 2010 with a high-density polypropylene (HDPE) liner.[8] The HDPE liner provides an even greater degree of protection against leakage with a permeability of approximately 10^{-13} cm/sec. The liners in the two ash ponds achieve and exceed the level of permeability which the Illinois regulations expressly recognize is sufficient to prevent the release of constituents to the environment. Hence, the facts regarding the liners in place for these two ash ponds also support the conclusion that the ash ponds are not the source of the exceedances of groundwater standards alleged in the VN.

The VN contains no facts concerning the condition of the liners in the Powerton ash ponds that would indicate that they are allowing ash constituents to escape from the ponds. For example, the Agency does not contend that there are any breaches in the integrity of the ash pond liners that are allowing ash constituents to be released to the groundwater. The Agency similarly does not claim that the materials used for the existing liners are inadequate to prevent the migration of constituents, and it would be hard pressed to do so given that the materials either meet or exceed the analogous requirements for Illinois landfills. In the absence of such

[7] Poz-o-Pac is an aggregate liner similar to concrete.
[8] *See* Illinois EPA Water Pollution Control Permit No. 2010-EP-0664 for the Bypass Basin Expansion and Liner Upgrade

evidence, it is certainly far more likely than not that the existing ash ponds at the Powerton Station are not the source of the groundwater impacts alleged in the VN.

B. Hydrogeologic Assessment and Site Hydrology

The VN appears to be based on the flawed premise that the hydrogeologic assessment which the Agency directed MWG to perform in the vicinity of the ash ponds would be sufficient to identify the ash ponds as the source of any elevated levels of constituents in the groundwater. This is simply not the case. The results of the hydrogeologic assessment at best give rise to more questions about the source of the alleged groundwater impacts, and do not prove that the existing ash ponds are the source of those impacts.

The results of the hydrogeologic assessment show that there is some complexity to the site hydrology at Powerton. The complexity of the groundwater flow system arises from the existence of two distinct, though connected, groundwater units underlying the Powerton Station. The first unit is a localized, saturated silt and clay layer and the lower unit is a more extensive sand layer. When the groundwater elevations from all fifteen of the existing monitoring wells are plotted and analyzed for a single monitoring event (*i.e.,* the silt/clay unit wells and the sand unit wells), the groundwater flow system appears very complex. It shows a general groundwater flow direction of south to north, but with very unusual, localized groundwater highs, making a reasonable interpretation of groundwater flow difficult and suggests the presence of some localized, divergent flow. However, when the five monitoring wells that are screened in the silt/clay unit and the ten wells that are screened in the sand unit are plotted separately, it becomes evident that there are two distinct, though connected, groundwater units beneath this portion of the Site. In both units, the groundwater flows from the south/southeast to the north/northwest, toward the adjoining outlet channel west of the ponds. The elevation of the groundwater surface is approximately 10 feet higher in the silt/clay unit than in the sand unit. Because both units flow in the same direction and are in direct physical contact with each other, it is likely that they share some degree of hydraulic connection. Given this groundwater flow system, the data provides no indication of divergent or radial flow associated with the ash ponds.

The VN's allegations fail to make any distinctions among the fifteen monitoring wells that have been installed at the Powerton Station. There is no apparent attempt to evaluate the quarterly groundwater monitoring results, whether on a parameter-by-parameter basis or relative to each of the ash ponds themselves. When these evaluations are performed, the results show that the monitoring data does not support the VN's allegations that the operations of the ash impoundments have caused these groundwater impacts. The results of the evaluations are set forth below, beginning with the parameter-by-parameter evaluation.

Boron and sulfate are constituents known to be associated with coal ash. However, the monitoring data does not support a finding that the alleged boron and sulfate exceedances are due to the operations of the ash ponds. There are no exceedances of boron concentrations in any of the wells within the clay unit (*i.e.,* MW-6, MW-8, MW-12, MW-14 and MW-15) and boron is generally considered a reliable tracer of potential ash leachate impacts. Further, in the course of

this review, a transcription error was discovered in the previously reported first quarter 2012 groundwater sampling results for monitoring well MW-1. There was no exceedance of boron at monitoring well MW-1 in the first quarter 2012 sampling event, which is consistent with previous monitoring results for this well. Corrected data tables for the Powerton groundwater monitoring wells quarterly monitoring results are included with this response.

In addition, of all of the clay unit wells, only MW-14 had reproducible exceedances of sulfate. MW-15 had only one exceedance of sulfate, which did not occur again in any of the subsequent quarterly monitoring results. The remaining groundwater monitoring wells sampling results have reported no sulfate exceedances. Of the monitoring wells located in the underlying sand unit, only wells MW-9 and MW-13 had reproducible exceedances for either boron or sulfate.

As further discussed below, monitoring well MW-9 is the furthest upgradient well within the overall monitoring network. It has the highest detections of boron relative to all the other wells, with the exception of well MW-13. However, monitoring well MW-13 was not installed as part of the hydrogeologic assessment of the ash ponds. It was installed as an upgradient monitoring point pursuant to the construction permit requirements for the Metals Cleaning Basin, which as its name implies, does not receive or store any coal ash. The Metals Cleaning Basin is not associated in any way with the ash storage pond system. Thus, boron present in MW-13 is not evidence of any impact caused by the operation of the ash ponds.

Turning to the alleged pH exceedances, all nine pH exceedances noted in the VN were from a single sampling event - the December 2011 sampling event. They were not detected in the previous quarterly sampling events and have not been repeated since the December 2011 sampling event. Moreover, for MW-2, the alleged pH exceedance reported from this December 2011 sampling event is the only exceedance detected for any parameter over all of the six consecutive quarters of sampling. Given that pH is a field parameter, and no other pH exceedances were detected in any of the wells in any of the other quarterly sampling events, it is far more likely that the December 2011 pH measurements were associated with a malfunctioning field meter. Therefore, the December 2011 pH monitoring results are not indicative of alleged impacts from the ash ponds or that the groundwater in the vicinity of the subject monitoring wells is actually exceeding the pH standard.

A review of the chloride groundwater monitoring results also shows that they are not associated with the operations of the ash impoundments, as alleged in the VN. There were alleged chloride exceedances at monitoring well locations MW-8, MW-12, MW-14 and MW-15. Except for well MW-8, each of these was a single non-reproducible exceedance at each location. At monitoring well MW-8, the chloride exceedances are from only the last two rounds of the six consecutive quarters of groundwater sampling. Chloride is not an indicator of potential coal ash impacts. There are various other potential non-ash related sources of this compound. None of the wells where these alleged chloride exceedances were found had any exceedances of the boron standard.

The only exceedance detected for thallium in all six, consecutive sampling events is an isolated exceedance recorded for a single monitoring well, MW-14. Monitoring well MW-14 was not installed as part of the hydrogeologic assessment of the ash ponds. It instead was installed as a downgradient monitoring well for the Metals Cleaning Basin, which is not associated with the ash storage pond system. Thallium is not a constituent typically associated with ash storage facilities. It was not detected in any of the other fourteen monitoring wells at the Powerton Station in any of six consecutive quarters of groundwater monitoring. Hence, the isolated and unique detection of thallium is not evidence of a release from the ash ponds.

The alleged selenium and mercury exceedances alleged in the VN are almost exclusively the result of transcription errors which occurred in the previous reporting of these results to the Agency. There was no exceedance of selenium detected at monitoring wells MW-7 (4th Quarter 2011), MW-9 (1st Quarter 2011) and MW-13 (3 rd Quarter 2011). The original laboratory data package shows selenium concentrations at ten times lower than what was reported in the monitoring results submitted to the Agency. In the quarterly reports submitted to the Agency, the decimal point was erroneously placed in the reported monitoring values, resulting in the reporting of values ten times higher than the actual laboratory results. The single selenium exceedance in monitoring well MW-14 is an isolated event, which occurred over a year ago. No subsequent selenium exceedances have been reported in the quarterly sampling events to date. Like thallium, the isolated detection of selenium is not evidence of a release from an ash pond. There also was no exceedance of mercury at well MW-12 (4th Quarter 2010). The previously reported elevated mercury level was also due to a transcription error. The corrected selenium and mercury groundwater monitoring results are included in the enclosed, corrected Tables.

In summary, a parameter-by-parameter evaluation shows that the monitoring data does not support the VN's allegation that the operation of the ash ponds has caused the alleged exceedances. Isolated monitoring well results showing exceedances of a given parameter that are not seen in any of the other fourteen monitoring wells (*e.g.,* thallium, selenium) do not support the VN's allegations. Multiple pH exceedances from a single sampling event are more indicative of an equipment error than actual groundwater conditions. Similarly, the chloride exceedances, most of which were not reproducible in subsequent sampling events and none are which are associated with boron and sulfate exceedances, also are not consistent with the ash ponds being the source of the exceedances. For other parameters, such as arsenic, manganese and iron, the monitoring results are far more consistent with the presence of a reducing environment in the area of groundwater where these elevated levels were detected. Finally, the alleged exceedances for selenium are not real. They are the result of transcription errors which occurred in the preparation of its quarterly reporting to the Agency due to the incorrect placement of a decimal point in the monitoring results values. This is now corrected in the enclosed Tables.

The separate evaluation of the groundwater monitoring results relative to each of the three active ash ponds and the former ash pond individually also reveals several deficiencies in the alleged violations. Each of these ash ponds is discussed separately below.

Ash Bypass Basin:

The furthest south (upgradient) pond is known as the "Ash Bypass Basin." As previously stated, the Ash Bypass Basin was relined with a HDPE liner in 2010. Monitoring well MW-9 is the upgradient monitoring well for the Ash Bypass Basin and wells MW-11 and MW-12 are the two immediately downgradient wells. Monitoring well MW-12 is screened within the silt/clay unit and monitoring wells MW-9 and MW-11 are screened within the underlying sand unit. For upgradient well MW-9, multiple exceedances of boron and manganese were detected. Monitoring well MW-11 had one exceedance of boron, but this occurred during the last round of quarterly sampling and hence, additional monitoring data is not yet available to determine whether this is an isolated event. While there were multiple exceedances of manganese in monitoring well MW-12, it did not have any reported exceedances of boron. The highest boron concentrations were reported in upgradient well MW-9. This indicates that the boron source is not associated with the operation of the Ash Bypass Basin. Further, the manganese concentrations in well MW-12 are similar to the concentrations measured at upgradient well location MW-9; however, the manganese concentrations at MW-11 (ranging from 2.2 mg/l to 3.6 mg/l) are higher than in the upgradient well which ranges from 0.19 mg/l to 0.48 mg/l. Elevated manganese concentrations can be associated with sources other that ash ponds and can be reflective of localized mineralogy and reduction-oxidation (redox) conditions, especially when elevated levels of both boron and sulfate are absent. Similarly, the alleged iron exceedances in well MW-12 can also be reflective of localized mineralogy and redox conditions especially in the absence of elevated concentrations of boron and sulfate, as is the case here.

The conclusion that the elevated manganese and iron levels are not due to the operation of the ash ponds is further supported by analytical testing performed in August 2008 of plant bottom ash, fly ash and fines. The analytical testing, which included Toxic Characteristic Leaching Procedure (TCLP) analyses, provides relevant information concerning the leaching nature of the ash compounds. The analytical data shows no detections of manganese in TCLP leachate from any of the samples. The leached iron detections range from non-detect to 0.044 mg/l, which is substantially lower than the iron exceedances in monitoring well MW-12. The analytical data does not support the VN's allegations that the source of the alleged exceedances in these monitoring wells is associated with the operation of the Ash Bypass Basin.

The weight of the evidence shows that the Ash Bypass Basin is not causing the alleged groundwater impacts. Moreover, even if a case could be made that it was, MWG has already taken the necessary steps to address it. As described above, the Ash Bypass Basin was relined in 2010 with a state of the art HDPE liner.

Ash Surge Pond:

The Ash Surge Pond is located north (*i.e.,* downgradient) of the Ash Bypass Basin. It is the largest of the ash ponds and is lined. Monitoring wells upgradient of the Ash Surge Pond are MW-12, MW-11 (previously discussed above because they are also downgradient of the Ash Bypass Basin) and monitoring well MW-10. Wells MW-15 and MW-8 are immediately

downgradient of the Ash Surge Pond.[9] Monitoring wells MW-8 and MW-15 are screened within the silt/clay unit and well MW-10 is within the underlying sand unit.

Upgradient well MW-10 had multiple reported exceedances of manganese, ranging from 2.1 mg/l to 3.8 mg/l.[10] (Downgradient well MW-15 has six exceedances of manganese ranging from 0.25 mg/l to 0.60 mg/l and well MW-8 has five exceedances of manganese ranging from 0.18 to 0.28 mg/l. The downgradient concentrations of manganese are clearly lower than in the upgradient wells suggesting that the manganese is not associated with operation of the Ash Surge Basin. It is also noted that neither wells MW-8 nor MW-15 have exceedances of boron, an ash impact indicator. There is also only one reported exceedance of sulfate in monitoring well MW-15 (650 mg/l), which was not reproducible during subsequent, consecutive sampling events. This alleged, isolated sulfate exceedance also was anomalously and significantly higher than all other sulfate detections at this monitoring well location, which ranged from 140 mg/l to 300 mg/l. Hence, the level of the single, alleged sulfate exceedance at MW-15 is more than twice that of any other reported value for this monitoring well.

Monitoring well MW-13 is slightly side gradient of the Ash Surge Basin (located just west of the southwest corner of the basin). As discussed previously, the boron and sulfate detections at this location were the highest of any monitoring well. These levels do not support a finding that that they are caused by the Ash Surge Basin's operations because none of the downgradient monitoring wells from this basin had any similar boron and sulfate levels detected throughout numerous, consecutive sampling events.

Ash Settling Pond:

The Ash Settling Pond is located to the north (downgradient) of the Ash Surge Basin. Monitoring well MW-8's location is considered upgradient of this pond. Monitoring wells MW-6 and MW-7 are immediately downgradient of the Ash Settling Pond. MW-6 is screened within the silt/clay unit and MW-7 is screened within the underlying sand unit. None of these three wells (MWs 6, 7 or 8) had reported exceedances of boron or sulfate. The range of boron detections at MW-6 (0.35 mg/l to 0.63 mg/l) and at MW-7 (0.34 mg/l to 0.61 mg/l) are significantly lower than the range of boron detections in the upgradient monitoring well MW-8 (0.57 mg/l to 0.93 mg/l). Hence, the monitoring data indicates that the concentrations of boron are lower on the downgradient side of the Ash Settling Pond. The same observation is true for the sulfate levels among these same monitoring wells. These findings support the conclusion that the alleged groundwater impacts in the vicinity of the Ash Settling Pond are not associated with its operation.

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[9] Monitoring well MW-15 is also adjacent to the northwest corner of the Metals Cleaning Basin, which is not part of the ash pond system.

[10] The manganese levels are similar to the elevated detections in monitoring well MW-11. Hence, these results are further evidence that the elevated manganese at MW-11 is not associated with the operation of the Ash Bypass Basin because monitoring well MW-10 is approximately 600 feet away from the Ash Bypass Basin and is not downgradient of it.

There were other alleged exceedances in MW-6 and/or MW-7, including a single alleged exceedance of chloride (MW-6) and one for lead (MW-7), as well as manganese, arsenic, iron, and Total Dissolved Solids (TDS)[11], as discussed above regarding iron and manganese, in the absence of elevated concentrations of the coal ash indicators such as boron and sulfate, these alleged exceedances are as likely due to other sources that are unrelated to the Ash Settling Pond or any of the other Powerton ash ponds.

Former Ash Pond:

Monitoring wells MW-1 through MW-5 are located around a former ash pond which is no longer in operation. Monitoring wells MW-1 and MW-10 are located upgradient of this former ash pond. Monitoring wells MW-2 through MW-5 are located downgradient of it. All six of these wells are screened within the sand unit. None of these wells have any exceedances of boron or sulfate. The single boron exceedance noted in the VN for these wells was at well MW-1, which a further review has found to be a transcription error in the prior reporting to the Agency. (See corrected value for MW-1 in enclosed Tables) The boron levels both upgradient and downgradient of the former ash pond are similar to each other, further evidence that the former ash pond is not the source of groundwater impacts. Although there are alleged manganese exceedances in monitoring wells MW-4 and MW-5, the range of these manganese values was lower than in these wells than in the upgradient monitoring well MW-10. The single alleged nitrate exceedance in upgradient monitoring well MW-1 is an isolated, unconfirmed exceedance that is insufficient to prove a violation of the nitrate standard. Further, there are various sources of nitrate in groundwater that are not associated with ash pond operations, especially when no elevated levels of known coal ash indicator compounds are present, which is the case here.

The Agency's broad and all-encompassing allegations regarding the ash ponds are simply not supported by a careful evaluation of the underlying groundwater monitoring data for the respective monitoring wells that are located upgradient and downgradient of each of the subject ash ponds. The groundwater monitoring data on which the VN is based is not sufficient to show that the ash ponds are the source of the alleged exceedances.

C. The Powerton Ash Ponds Are Not Causing Groundwater Exceedances

Because the Agency failed to specify which of the provisions of Section 12 of the Act MWG allegedly violated, MWG has had to speculate to identify the potential Section 12 violations this response needs to address. As stated above, MWG objects to the vagueness of, and legally deficient notice provided by, the VN and reserves its right to respond further when and if the Agency properly identifies the provisions of Section 12 on which it is relying.

[11] The single alleged exceedance for selenium in MW-7 that is included in the VN is due to a transcription error in prior reporting of monitoring results to the Agency. It has been corrected in the enclosed Tables.

For purposes of this response, based upon the regulations cited by the Agency in the VN, MWG has assumed that the Agency's alleged violations of Section 12 are limited to Sections 12(a), which prohibits causing or allowing water pollution, and to Section 12(d), which prohibits causing or allowing the creation of a water pollution hazard. 415 ILCS 5/12(a), (d). Based on these assumptions regarding the substance of the Illinois EPA's alleged violations, MWG submits that the Agency cannot show that the ash ponds at Powerton caused or allowed water pollution or created a water pollution hazard.

The overwhelming number of the alleged exceedances of the Class 1 groundwater standards are random and inconsistent. For all but a few of the parameters, the necessary confirmation of the existence of groundwater impacts above the Class 1 groundwater standards is absent. For the remaining few, the data is insufficient to prove that the source is one or more of the subject ash ponds.

To show a violation of Section 12(a) and 12(d), there must be a showing not only of the presence of a potential source of contamination, but also that it is in sufficient quantity and concentration to render the waters harmful. *Bliss v. Illinois EPA,* 138 Ill. App. 3d 699, 704 (1985) ("mere presence of a potential source of water pollutants on the land does not necessarily constitute a water pollution hazard"). In other words, there must be a causal link between the potential source and the water or groundwater. The groundwater monitoring data on which the Agency relies does not establish this essential causal link between the ash ponds and the groundwater. Therefore, the Agency has failed to meet its burden to prove that the ash ponds are the cause of the alleged exceedances of the groundwater standards as required to prove a violation of Sections 12(a) or 12(d) of the Act. 415 ILCS 5/12(a), (d).

Illinois EPA also alleges violations of the groundwater quality regulations based on exceedances of the groundwater quality standards in 35 Ill. Admin. Code § 620.401. There is no violation here of Section 620.401. Section 620.401 solely provides the legal criteria that groundwater must meet the standards appropriate to the groundwater's class. It is a foundational regulation, allowing for different classes of groundwater to meet different groundwater standards. It is not a prohibition regulation. There is no conduct prohibited by this section of the regulations in which MWG is alleged to have engaged. MWG cannot and did not violate Section 620.401.

The remaining alleged groundwater regulation violations, Sections 620.115, 620.301, 620.405, and 620.410 of the Board Regulations, are all based on the Agency's contention that MWG's operation of the ash ponds has caused the exceedances of the groundwater standards detected in the monitoring data. To sustain these allegations, the Agency must show that MWG caused a discharge of the subject constituents from ash ponds which in turn caused the

exceedances of the groundwater standards.[12] The relevant facts and circumstances do not support either conclusion.

The use and condition of the ash ponds does not support a finding that they are releasing constituents to the groundwater. They are not disposal sites. The ash is regularly removed from the ponds by MWG. The linings in two of the ash ponds are of sufficient permeability, consistent with accepted regulatory guidance, to prevent the release of constituents. Moreover, the groundwater down-gradient of the only unlined ash pond shows no impacts from coal ash constituents. Finally, pursuant to the terms of the Powerton Station's NPDES Permit, these ash ponds are part of the flow-through wastewater treatment process at the station. MWG's operation of the ash ponds has been carried out in accordance with the terms and conditions of the NPDES Permit. Under Section 12(f) of the Act, compliance with the terms and conditions of any permit issued under Section 39(b) of the Act is deemed compliance with this subsection.

Similarly, the groundwater data on which the Agency relies does not provide a sufficient scientific or technical evidentiary basis on which to conclude that the ash ponds are causing the alleged groundwater exceedances. The essential "causal link" between the ash ponds and the elevated constituents in the groundwater is missing. The data is at best inconclusive on this issue, while certain aspects of the data clearly point to other, unrelated causes.

Because the ash ponds have not been shown to have caused a release of any contaminants that are causing the groundwater exceedances, the Agency's VN does not support its claims that MWG has violated Sections 620.405 or 620.301 of the Board regulations. Accordingly, MWG also has not violated Section 620.115 of the Board regulations.

III. Compliance Commitment Agreement

This VN should not have been issued. Given the absence of proof that the ash ponds are the cause of the alleged groundwater exceedances, the Agency's request for a Compliance Commitment Agreement (CCA) is an attempt to compel MWG to conduct unnecessary corrective action.

Moreover, with the pending federal regulatory process to enact regulations for the design and operation of ash ponds, it is prudent to await the outcome of the proposed federal regulations to determine whether any changes to the ash ponds construction or operation are required by those regulations. The Agency itself has previously advanced this position. In 2010, the Agency's Steven Nightingale testified before the Illinois Pollution Control Board that the Board should consider initiating a temporary moratorium on the closure of coal ash impoundments because of the U.S. EPA's intention to regulate them. (*See In the Matter of Ameren Ash Pond Closure Rules (Hutsonville Power Station): Proposed 35 Ill.Adm.Code Part 840.101 Through*

[12] *See People of the State of Illinois v. ESG Watts, Inc.*, PCB 96-107 slip op. at p. 41 (February 5, 1998) (By finding the respondent caused a discharge of constituents into the groundwater causing a violation of the Class II Groundwater standards, the Board found the respondent also violated 35 IAC §§ 620.301 and 620.115).

840.152, Docket R09-21 (October 7, 2010) at p. 64) On behalf of the Agency, Mr. Nightingale told the Board that if industry had to take action in the interim, it "could end up expending substantial money and resources only to find they are subject to additional and/or different closure requirements for those units." (*Id.*) The Agency's pursuit of this enforcement action, particularly given the deficiencies in its alleged evidence, also threatens to force MWG to take actions that may conflict with or otherwise differ from the requirements in the upcoming federal regulations.

As the hydrogeologic assessment showed, there is no threat to human health presented by the alleged exceedances of the groundwater standards. The hydrogeologic assessment investigated the presence of potable water sources within a 2,500-foot radius of the site. Six wells are located within the 2,500-foot radius of the site; however none of the wells are down-gradient of the ash ponds. In fact, two of the wells supply the Powerton Station with water, and are regularly sampled for potable water constituents. The sampling results have consistently been in compliance with potable water regulations.[13] In the absence of any potable groundwater receptors or use, groundwater at the Powerton site does not pose any risk to human health. Accordingly, awaiting the outcome of the federal regulatory proposal is appropriate under these circumstances.

Because MWG's preference is to cooperate with the Agency in this matter, MWG presents here a proposed CCA that should be acceptable based on the relevant facts and circumstances. The proposed CCA terms are as follows:

A. The ash ponds will not be used as disposal sites and ash will continue to be removed from the ponds on a periodic basis.

B. MWG has installed a new liner in the Ash Bypass Basin that provides protection against the migration of ash constituents to the groundwater.

C. The ash ponds and the Ash Bypass Basin will be maintained and operated in a manner which protects the integrity of the existing liners. During the removal of ash from the ponds, appropriate procedures will be followed to protect the integrity of the existing liners, including operating the ash removal equipment in a manner which minimizes the risk of any damage to the liner.

D. During the ash removal process, visual inspections of the ponds will be conducted to identify any signs of a breach in the integrity of the pond liner. In the event that a breach of the pond liner is detected, MWG will notify the Agency and will submit a corrective action plan for repair or replacement, as necessary, of the liner. Upon the Agency's approval, and the issuance of any necessary construction permit, MWG will implement the correction action plan.

[13] See previously submitted Hydrogeologic Assessment of Midwest Generation Electric Generation Stations: Will County Station, Waukegan Station, Joliet 29 Station, Crawford Station, Powerton Station.

E. MWG proposes to establish a Groundwater Management Zone ("GMZ") below the ash ponds pursuant to Section 620.250 of the Board's regulations. 35 Ill. Admin. Code § 620.250. The corrective action required by the GMZ regulations is addressed by the existing pond liners. MWG is also willing to evaluate the inclusion of institutional controls regarding the area of impacted groundwater, provided that any institutional controls allow for the continued use of the Powerton potable water wells which are located outside of the subject area and for which regular, repeated testing has confirmed are not affected.

F. MWG will continue to monitor the groundwater through the existing fifteen groundwater monitoring wells and report its findings to Illinois EPA, pursuant to Section 620.250(c) of the GMZ Regulations, 35 Ill. Admin. Code § 620.250(c). MWG reserves the right to request the Agency's approval of a cessation of all or some of the monitoring requirements based on future monitoring results.

G. MWG will continue to monitor the development of the Coal Combustion Residuals Proposed Rules, EPA-HQ-RCRA-2009-0640. When the final rule is issued, MWG will promptly notify Illinois EPA how it will comply with the new Federal Rules.

This letter constitutes our response to and proposed CCA for the Violation Notice W-2012-00057. MWG also reserves the right to raise additional defenses and mitigation arguments as may be necessary, in defense of the allegations listed in the Violation Notice in the event of any future enforcement. We look forward to discussing the above information further at the soon to be scheduled meeting with the Agency's representatives. Please contact me to schedule a mutually convenient date for the meeting.

Very truly yours,

Susan M. Franzetti
Counsel for Midwest Generation, LLC

Enclosures

cc: Maria L. Race, Midwest Generation, LCC

Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-1 (mg/L)	MW-1 (mg/L)	MW-1 (mg/L)	MW-1 (mg/L)	MW-1 (mg/L)	MW-1 (mg/L)	MW-2 (mg/L)	MW-2 (mg/L)	MW-2 (mg/L)	MW-2 (mg/L)	MW-2 (mg/L)	MW-2 (mg/L)
Chemical Name		Class I*	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	0.0018	0.0015	0.0017	ND	ND	ND
Barium	Metals 6020	2.0	0.044	0.026	0.034	0.056	0.044	0.038	0.042	0.025	0.053	0.059	0.066	0.049
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.0057	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0022	ND	ND	ND
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.008	ND	0.0069	0.0095	ND	0.0086	0.0096	0.0053	0.01	0.0073	ND
Selenium	Metals 6020	0.05	0.0016	0.0022	0.0016	0.0036	0.0027	0.0025	0.0017	0.0032	0.0014	0.0032	0.0037	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013
Boron	Metals 6020	2	0.45	0.26	0.33	1.0	0.48	0.29	0.38	0.23	0.35	0.83	0.69	0.27
Sulfate	Dissolved 9038	400	50	30	39	83	31	61	52	42	53	70	69	55
Chloride	Dissolved 9251	200	46	37	40	41	26	53	45	43	44	46	40	53
Nitrogen/Nitrate	Nitrogen By calc	10	7.2	4.3	5.7	**11**	4.1	7.3	7.5	4.5	4.7	4.3	6.9	5.1
Total Dissolved Solids	Dissolved 2540C	1,200	490	340	410	510	440	470	480	420	470	460	490	440
Fluoride	Dissolved 4500 FC	4	0.28	0.32	0.38	ND	ND	ND	ND	0.3	0.35	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwnter Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

AMENDMENTS
- Value amended from original Table 3 (May 11, 2012).
- Value has not changed; font has been changed from bold to normal.
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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-3 (mg/L)	MW-3 (mg/L)	MW-3 (mg/L)	MW-3 (mg/L)	MW-3 (mg/L)	MW-3 (mg/L)	MW-4 (mg/L)	MW-4 (mg/L)	MW-4 (mg/L)	MW-4 (mg/L)	MW-4 (mg/L)	MW-4 (mg/L)
Chemical Name		Class I*	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0017	ND	0.0011	0.0012	0.0012	0.0012	ND	ND	ND	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.03	0.063	0.081	0.076	0.052	0.055	0.052	0.058	0.041	0.048	0.043
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	0.0045	ND	ND	0.0044	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	0.0026	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.012	0.0042	ND	ND	ND	ND	0.0033	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	ND	0.042	ND	ND	ND	0.017	ND	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	0.0047	0.0023	ND	0.0037	0.0014	ND	ND	**0.68**	**0.41**	**0.69**	**0.35**	0.089
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.011	0.0095	ND	0.008	0.0078	ND	0.012	0.012	0.0067	0.011	0.01	0.0055
Selenium	Metals 6020	0.05	ND	0.0036	0.0015	0.0036	0.0021	0.0067	0.0022	0.0037	0.0022	0.0039	0.002	0.0085
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.75	0.18	0.24	0.64	0.7	0.56	0.77	0.83	0.33	0.84	0.79	0.78
Sulfate	Dissolved 9038	400	64	42	47	66	45	72	110	140	48	61	6.7	160
Chloride	Dissolved 9251	200	39	52	59	62	39	54	150	77	43	86	8.1	58
Nitrogen/Nitrate	Nitrogen By calc	10	9.4	5.2	5.4	0.2	0.2	2.1	0.34	0.73	2.7	0.06	0.07	0.65
Total Dissolved Solids	Dissolved 2540C	1,200	480	430	440	460	480	450	680	620	470	580	520	660
Fluoride	Dissolved 4500 FC	4	0.3	0.35	0.41	0.35	ND	ND	0.3	0.39	0.43	0.31	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

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Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-5 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)	MW-6 (mg/L)
Chemical Name		Class I*	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0011	ND	ND	ND	0.001	ND	0.0042	0.0024	0.0029	0.0031	0.0036	0.002
Barium	Metals 6020	2.0	0.053	0.048	0.046	0.071	0.065	0.054	0.11	0.092	0.1	0.1	0.12	0.097
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0044	0.0042	ND	0.0066	ND	ND	0.006	0.0083	0.0045	0.0085	0.0056	ND
Cobalt	Metals 6020	1.0	0.0025	0.0023	ND	0.0027	0.0022	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	ND	0.0036	0.0061	ND	ND	ND	0.0032	0.0042	ND	0.16
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.13	0.05	0.046	0.082	0.036	ND	1.6	1.6	1.7	1.8	1.9	1.7
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	**0.51**	**0.49**	**0.48**	**0.64**	**0.5**	**0.26**	**0.68**	**0.68**	**0.63**	**0.66**	**0.63**	**0.61**
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.014	0.013	0.0077	0.014	0.014	0.008	0.0091	0.014	0.0078	0.0099	0.0089	ND
Selenium	Metals 6020	0.05	0.0019	0.003	ND	0.0045	0.0023	0.0028	0.0034	ND	ND	0.0025	0.0033	ND
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	ND	ND	0.049
Boron	Metals 6020	2	0.95	0.93	0.79	0.79	0.77	0.82	0.5	0.35	0.43	0.61	0.63	0.39
Sulfate	Dissolved 9038	400	160	170	110	250	170	120	210	250	280	260	170	250
Chloride	Dissolved 9251	200	150	120	89	160	140	82	180	200	160	210	150	150
Nitrogen/Nitrate	Nitrogen By calc	10	ND	ND	0.08	ND	ND	1.6	0.037	ND	ND	0.04	0.06	ND
Total Dissolved Solids	Dissolved 2540C	1,200	740	680	640	890	820	590	950	990	1,100	970	1,000	1,100
Fluoride	Dissolved 4500 FC	4	0.27	0.36	0.43	0.25	ND	ND	0.65	0.61	0.63	0.64	0.5	0.47
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

AMENDMENTS
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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-7 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)	MW-8 (mg/L)
Chemical Name		Class I*	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.026	**0.085**	**0.12**	**0.18**	**0.23**	**0.23**	0.0052	0.0039	0.0044	0.0036	0.0052	0.0038
Barium	Metals 6020	2.0	0.55	0.52	0.57	0.57	0.59	0.57	0.11	0.12	0.11	0.11	0.13	0.14
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	0.0026	ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0088	0.0075	0.0061	0.011	ND	ND	0.0059	0.0081	0.0059	0.0084	0.0053	ND
Cobalt	Metals 6020	1.0	0.017	0.0056	0.007	0.0055	0.006	0.0067	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.14	ND	ND	ND	ND	ND	ND	ND	0.0036	0.0037	0.01	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	**8**	**7.5**	**10**	**22**	**26**	**31**	0.56	2.1	1.7	0.97	0.94	2.3
Lead	Metals 6020	0.0075	0.039	ND	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	**3.5**	**5.9**	**6.4**	**12**	**12**	**11**	0.15	**0.27**	**0.29**	**0.18**	**0.2**	**0.27**
Mercury	Mercury 7470A	0.002	ND	ND	0.00025	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.045	0.021	0.022	0.026	0.022	0.018	0.011	0.013	0.0076	0.007	0.009	0.0054
Selenium	Metals 6020	0.05	0.0043	0.0026	0.0025	0.0073	0.0054	0.0013	0.0036	0.0013	ND	0.0031	0.0036	0.0018
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.076	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	0.61	0.44	0.43	0.38	0.34	0.35	0.93	0.72	0.64	0.82	0.82	0.57
Sulfate	Dissolved 9038	400	120	49	25	9.1	3.3	3	160	240	140	200	200	300
Chloride	Dissolved 9251	200	170	200	140	130	81	99	180	**210**	140	**210**	190	170
Nitrogen/Nitrate	Nitrogen By calc	10	0.043	0.08	ND	0.31	0.03	ND	ND	ND	0.1	1.6	ND	ND
Total Dissolved Solids	Dissolved 2540C	1,200	860	1,100	**1,300**	**1,300**	**1,300**	**1,400**	890	990	970	940	990	1,200
Fluoride	Dissolved 4500 FC	4	0.47	0.42	0.58	0.94	0.47	0.54	0.77	0.76	0.81	0.84	0.75	0.7
Radium 226 (pCi/L)	EPA 903.1	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

AMENDMENTS
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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-9 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)	MW-10 (mg/L)
Chemical Name		Class I*	12/16/10	2/15/11	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	3/25/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	ND	ND	0.0018	0.0017	ND	0.0012	ND	ND	ND	0.0015	ND	ND	ND
Barium	Metals 6020	2.0	0.038	0.042	0.042	0.038	0.03	0.038	0.035	0.24	0.28	0.36	0.25	0.26	0.26
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	0.0026	0.0027	0.0039	0.0025	0.0026	0.0024
Copper	Metals 6020	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	ND	ND	0.066	ND	ND	ND	0.014	ND	ND	0.044	ND	ND	ND
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	**0.23**	**0.43**	**0.45**	**0.48**	0.14	**0.28**	**0.22**	**2.1**	**2.8**	**3.8**	**2.3**	**2.3**	**2.3**
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.01	0.011	0.0093	0.0063	0.0065	0.0088	ND	0.015	0.016	0.015	0.01	0.013	0.0091
Selenium	Metals 6020	0.05	0.0024	ND	0.0072	0.0017	0.0043	0.0041	0.0072	0.0042	0.0064	0.0043	0.0057	0.0065	0.0056
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	**2.1**	1.9	1.9	1.9	2.5	2.7	2.6	0.48	0.48	0.52	0.42	0.57	0.54
Sulfate	Dissolved 9038	400	110	99	110	110	130	110	120	62	64	67	64	72	76
Chloride	Dissolved 9251	200	25	33	28	28	30	30	30	40	43	43	49	42	45
Nitrogen/Nitrate	Nitrogen By calc	10	2.9	3.7	5.6	5.6	3.7	2.6	5	3	4	2.1	4.5	4.9	6
Total Dissolved Solids	Dissolved 2540C	1,200	500	470	510	540	500	520	530	530	520	650	470	540	530
Fluoride	Dissolved 4500 FC	4	ND	0.32	0.31	0.34	0.25	ND	ND	ND	0.3	0.36	ND	ND	ND
Radium 226 (pCi/L)	EPA 903.1	20	0.673	0.728	NS	0.955	0.43	0.621	0.592	NS	NS	NS	NS	NS	NS
Radium 228 (pCi/L)	EPA 904.0	20	0.941	0.983	NS	0.974	0.966	0.966	0.831	NS	NS	NS	NS	NS	NS

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-11 (mg/L)	MW-11 (mg/L)	MW-11 (mg/L)	MW-11 (mg/L)	MW-11 (mg/L)	MW-11 (mg/L)	MW-12 (mg/L)	MW-12 (mg/L)	MW-12 (mg/L)	MW-12 (mg/L)	MW-12 (mg/L)	MW-12 (mg/L)
Chemical Name		Class I*	12/16/10	2/15/11	6/16/11	9/19/11	12/12/11	3/19/12	12/15/10	2/15/11	6/16/11	9/19/11	12/12/11	3/19/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0021	0.0025	0.0019	0.0016	0.0019	0.0021	0.0088	0.013	0.0064	0.0087	0.0089	0.0042
Barium	Metals 6020	2.0	0.17	0.11	0.18	0.11	0.11	0.13	0.089	0.11	0.091	0.085	0.09	0.071
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	ND	ND	ND	ND	ND	ND	ND	0.0056	0.0044	0.0071	0.0047	ND
Cobalt	Metals 6020	1.0	0.0028	0.0041	0.0024	ND	ND	0.0024	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0032	0.0032	0.0043	ND	ND	ND	ND	ND	0.0032	0.0036	0.0031	ND
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.44	0.01	0.029	0.018	ND	ND	**5.5**	**6.3**	**5.6**	4	**3.1**	4.8
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	**3.2**	**3.6**	**2.9**	**2.2**	**2.5**	**2.9**	**0.32**	**0.58**	**0.26**	**0.37**	**0.25**	0.13
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.019	0.016	0.013	0.011	0.013	0.011	0.0096	0.01	0.0072	0.0075	0.0091	0.0075
Selenium	Metals 6020	0.05	0.0026	0.0015	0.0018	0.004	0.0031	0.0039	0.0026	0.0027	ND	0.0023	0.0034	0.0043
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.8	1.6	1.5	1.8	**2.3**	1.6	1.4	1.3	1.2	1.3	0.92
Sulfate	Dissolved 9038	400	170	160	210	140	160	130	290	270	350	360	300	310
Chloride	Dissolved 9251	200	70	66	120	53	87	54	170	180	180	190	**210**	170
Nitrogen/Nitrate	Nitrogen By calc	10	0.41	0.17	0.04	0.74	1.5	0.39	ND	ND	0.14	ND	ND	0.04
Total Dissolved Solids	Dissolved 2540C	1,200	740	710	930	620	730	740	980	1,000	1,100	970	970	1,000
Fluoride	Dissolved 4500 FC	4	0.53	0.56	0.67	0.58	0.44	0.42	0.71	0.61	0.64	0.74	0.61	0.46
Radium 226 (pCi/L)	EPA 903.1	20	0.445	0.174	0.929	0.489	0.733	0.621	0.617	0.207	0.893	0.803	0.923	0.445
Radium 228 (pCi/L)	EPA 904.0	20	0.915	0.967	0.914	0.949	1.03	0.683	0.97	0.973	0.956	0.996	0.952	0.713

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
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NS-not sampled
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mg/L- milligrams per liter

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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-13 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)	MW-14 (mg/L)
Chemical Name		Class I*	12/15/10	2/15/11	4/25/11	6/16/11	8/9/11	10/13/11	12/12/11	4/10/12	12/15/10	2/15/11	4/25/11	6/16/11	8/9/11	10/13/11	12/12/11	4/10/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.011	0.0069	0.0063	0.0057	0.0048	0.0066	0.023	0.027	0.024	0.019	0.0084	0.005	0.0062	0.015	0.0033	0.0039
Barium	Metals 6020	2.0	0.11	0.052	0.073	0.059	0.046	0.083	0.21	0.14	0.034	0.034	0.036	0.04	0.041	0.04	0.045	0.045
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0062	0.0042	0.0045	ND	ND	0.01	0.0055	0.0055	ND	0.0046	0.0078	0.0049	0.0076	0.0096	0.0065	0.0057
Cobalt	Metals 6020	1.0	0.0031	0.0026	0.0023	0.0022	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	0.0068	0.0037	0.0041	0.004	0.004	0.0055	0.0066	0.0068	0.0037	0.0035	0.0074	0.0071	0.0064	0.0055	0.025	0.0067
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	0.69	0.052	0.077	ND	0.043	ND	0.11	0.2	2.2	0.94	0.036	0.3	0.71	2	0.12	0.77
Lead	Metals 6020	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0035
Manganese	Metals 6020	0.15	5	3.8	2.7	2.9	2.6	3.6	3.5	3.5	0.68	0.81	0.29	0.36	0.57	0.84	0.067	0.63
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.03	0.023	0.021	0.018	0.016	0.015	0.022	0.02	0.015	0.015	0.02	0.016	0.016	0.011	0.015	0.018
Selenium	Metals 6020	0.05	0.0046	0.0046	0.0045	0.0029	0.0056	0.004	0.0036	0.0037	0.0024	0.0015	0.065	0.0035	0.003	0.0017	0.0037	0.022
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0018	0.0035	0.0039	0.0027	0.0016	0.0016	0.0034
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0084
Boron	Metals 6020	2	3.9	3.1	2.6	3.0	2.7	3.0	4.1	4.0	2.0	1.9	1.9	1.9	1.8	1.9	1.9	1.8
Sulfate	Dissolved 9038	400	1,400	770	580	540	440	660	1,100	1,100	960	820	770	810	940	850	880	990
Chloride	Dissolved 9251	200	160	120	100	86	110	110	180	170	160	160	160	160	240	200	200	190
Nitrogen/Nitrate	Nitrogen By calc	10	0.14	1.3	1.8	2.2	3.6	1.6	0.07	0.06	0.036	ND	1	0.27	0.05	ND	0.33	0.31
Total Dissolved Solids	Dissolved 2540C	1,200	2,600	1,600	1,400	1,300	1,100	1,500	2,100	2,300	1,800	1,700	1,800	1,900	2,000	1,800	1,800	2,200
Fluoride	Dissolved 4500 FC	4	0.28	0.29	0.31	0.44	0.38	0.3	ND	0.32	1.7	1.6	1.1	1.3	1.4	0.88	1.1	1
Radium 226 (pCi/L)	EPA 903.1	20	0.603	0.165	NA	0.741	0	0.444	0.955	0.678	0.577	0.163	NA	0.893	0.474	0.0983	0.857	0.601
Radium 228 (pCi/L)	EPA 904.0	20	0.988	0.966	0.73	1	0.198	0.74	1.01	0.883	0.944	0.96	0.737	0.947	1.1	–	0.985	0.929

Notes:
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NS-not sampled
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Table 3
GROUNDWATER ANALYTICAL RESULTS - AMENDED JULY 2012
Powerton Generation Station
Pekin, Illinois
Midwest Generation
21253.022

PATRICK ENGINEERING	Sample Analysis Method	Groundwater Quality Standard (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)	MW-15 (mg/L)
Chemical Name		Class I*	12/15/10	2/15/11	4/25/11	6/16/11	8/9/11	10/13/11	12/12/11	4/10/12
Antimony	Metals 6020	0.006	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	Metals 6020	0.05	0.0099	0.0092	0.0064	0.0052	0.0053	0.011	0.0097	0.0061
Barium	Metals 6020	2.0	0.058	0.052	0.061	0.11	0.057	0.06	0.063	0.075
Beryllium	Metals 6020	0.004	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Metals 6020	0.005	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	Metals 6020	0.1	0.0042	0.0061	0.0092	0.0054	0.0091	0.0062	0.0062	0.0071
Cobalt	Metals 6020	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Metals 6020	0.65	ND	ND	0.0039	0.005	0.0041	0.0037	0.0031	0.0039
Cyanide	Dissolved 9014	0.2	ND	ND	ND	ND	ND	ND	ND	ND
Iron	Metals 6020	5.0	3.3	2.4	2.1	0.7	2.1	2.6	2.1	0.0011
Lead	Metals 6020	0.0075	ND	ND	0.0012	ND	ND	ND	ND	ND
Manganese	Metals 6020	0.15	**0.56**	**0.42**	**0.36**	**0.6**	**0.37**	**0.48**	**0.39**	**0.25**
Mercury	Mercury 7470A	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	Metals 6020	0.1	0.013	0.011	0.012	0.015	0.01	0.011	0.011	0.01
Selenium	Metals 6020	0.05	0.0042	0.0079	0.017	0.004	0.002	0.004	0.0047	0.025
Silver	Metals 6020	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	Metals 6020	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	Metals 6020	5.0	ND	ND	ND	ND	ND	ND	ND	ND
Boron	Metals 6020	2	1.6	1.4	1.5	1.6	1.3	1.2	1.2	1.4
Sulfate	Dissolved 9038	400	300	220	270	**650**	250	180	140	200
Chloride	Dissolved 9251	200	180	190	190	170	**210**	180	200	200
Nitrogen/Nitrate	Nitrogen By calc	10	0.03	0.086	0.04	0.07	0.05	ND	0.07	0.12
Total Dissolved Solids	Dissolved 2540C	1,200	1,000	1,000	1,100	**1,600**	1,000	890	840	1,000
Fluoride	Dissolved 4500 FC	4	0.69	0.75	0.6	0.73	0.76	0.77	0.75	0.79
Radium 226 (pCi/L)	EPA 903.1	20	0.666	0.174	NA	0.946	0.567	0.372	0.979	0.508
Radium 228 (pCi/L)	EPA 904.0	20	0.902	0.968	0.689	0.983	0.0954	1.04	0.937	0.901

Notes:
*Class I Groundwater Standards from 35 IAC Part 620
Bold values show exceedences of 35 IAC Part 620
NS-not sampled
ND- non detect
mg/L- milligrams per liter

AMENDMENTS
- Value amended from original Table 3 (May 11, 2012).
- Value has not changed; font has been changed from bold to normal.
- Value has not changed; font has been changed from normal to bold.

CERTIFICATE OF SERVICE

I hereby certify that the foregoing **NOTICE OF FILING** and **COMPLAINANTS' RESPONSE TO MIDWEST GENERATION, LLC'S OBJECTION AND APPEAL FROM HEARING OFFICER'S RULING TO ADMIT COMPLAINANTS' EXHIBITS 204G-209G, 210H-215H, 222J-228J, 236L-241L, and 261** were served electronically to all parties of record listed below, on November 28, 2017.

Respectfully submitted,

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