



BARTS #: 0260000095  
P.D.#.. 460134950

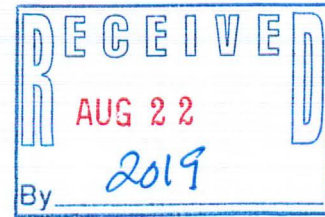
Wisconsin Public Service Corporation

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

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August 22, 2019

Mr. Pablo Valentín  
Project Manager  
United States Environmental Protection Agency  
77 W. Jackson Boulevard  
Chicago, Illinois 60604-3590



**RE: July 2019 Monthly Progress Report  
Campmarina Former Manufactured Gas Plant  
Sheboygan, Wisconsin  
Wisconsin Public Services Corporation  
CERCLA Docket No. V-W-07-C-862, CERCLIS ID – WIN000510058**

Dear Mr. Valentín:

Wisconsin Public Services Corporation (WPSC) is providing this monthly progress report for the WPSC Former Campmarina Manufactured Gas Plant (MGP) Site.

**1) PROGRESS MADE DURING THE PAST MONTH**

- Prepared and submitted June 2019 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by July 26, 2019.

**2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED**

- Groundwater analytical results from the June 17, 2019 sampling event and a site map have been included with this monthly progress report.

**3) PROJECTED WORK**

**WPSC Actions**

- Submit monthly progress report to USEPA by the 26th of the month.

**USEPA Actions**

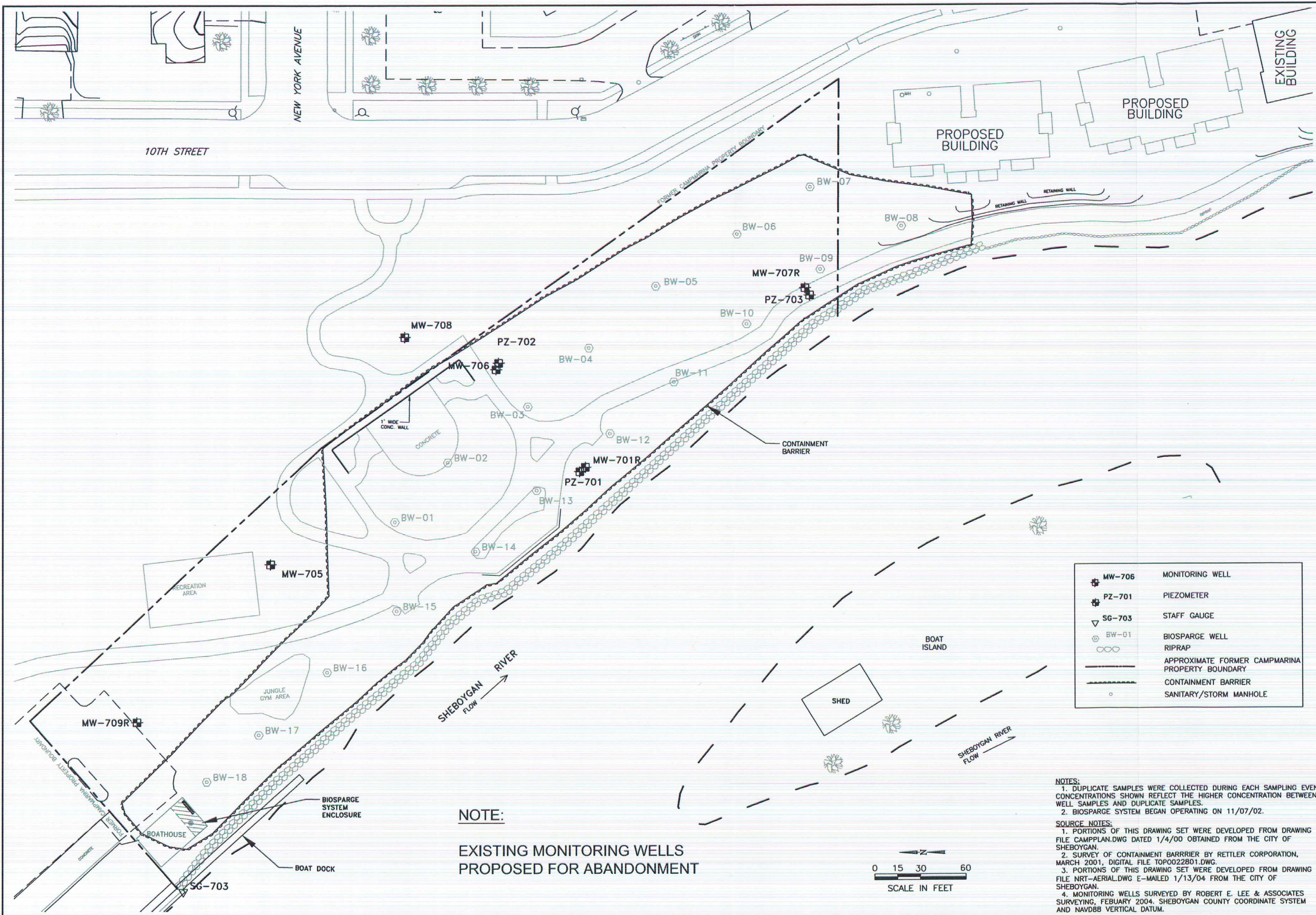
- None

**4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED**

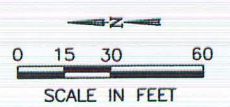
- None



May 17, 2013 10:05am PLOTTED BY: ndrasakovich SAVED BY: ndrasakovich  
 Y:\ACADData\Projects\1313\8\1313-8-B.3.d-Monitoring Wells.dwg Layout1  
 IMAGES: Y:\ACADData\Projects\1313\8\1313\8\1313-8-B.3.d-Monitoring Wells.dwg  
 XREFS:



**NOTE:**  
 EXISTING MONITORING WELLS  
 PROPOSED FOR ABANDONMENT



	MW-706	MONITORING WELL
	PZ-701	PIEZOMETER
	SG-703	STAFF GAUGE
	BW-01	BIOSPARGE WELL
		RIPRAP
		APPROXIMATE FORMER CAMPMARINA PROPERTY BOUNDARY
		CONTAINMENT BARRIER
		SANITARY/STORM MANHOLE

**NOTES:**  
 1. DUPLICATE SAMPLES WERE COLLECTED DURING EACH SAMPLING EVENT. CONCENTRATIONS SHOWN REFLECT THE HIGHER CONCENTRATION BETWEEN WELL SAMPLES AND DUPLICATE SAMPLES.  
 2. BIOSPARGE SYSTEM BEGAN OPERATING ON 11/07/02.

**SOURCE NOTES:**  
 1. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE CAMPPLAN.DWG DATED 1/4/00 OBTAINED FROM THE CITY OF SHEBOYGAN.  
 2. SURVEY OF CONTAINMENT BARRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022B01.DWG.  
 3. PORTIONS OF THIS DRAWING SET WERE DEVELOPED FROM DRAWING FILE NRT-AERIAL.DWG E-MAILED 1/13/04 FROM THE CITY OF SHEBOYGAN.  
 4. MONITORING WELLS SURVEYED BY ROBERT E. LEE & ASSOCIATES SURVEYING, FEBRUARY 2004, SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

DRAWN BY:	NWD	DATE:	04/09/13
CHECKED BY:	JWJ	DATE:	04/09/13
APPROVED BY:	JMK	DATE:	05/17/13
DRAWING NO: 1313-8-B.3.d-Monitoring Wells			
REFERENCE: SEE INFO BLOCK			

**SITE MAP**

BRRTS #02-60-000095  
 CAMP MARINA MANUFACTURED GAS PLANT  
 SHEBOYGAN, WISCONSIN



PROJECT NO.	67971
FIGURE NO.	1



**Table 1 - June 2019 Groundwater Sample Results**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 0260000095 FID#: 460134950 USEPA#: WIN000510058

9-digit Code	Sample Location	Sample Date	PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH		PAH	
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (Lab Calc)	
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
<b>Groundwater SL:</b>			NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3,000	250	NS	
<b>WI Groundwater PAL:</b>			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	NS	
<b>Tap Water RSL:</b>			1.1	36	530	530	1,800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.17	1,800	120	NS	
061719001	MW-709R	06/17/2019	<0.0058 U	<0.0048 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0074 U	<0.010 U	<0.0056 U	<0.0066 U	<0.0074 U	<0.013 U	<0.0098 U	<0.010 U	<0.0078 U	<0.017 U	<0.018 U	<0.014 U	<0.0075 U	0.032	
061719002	MW-708	06/17/2019	<0.0062 U	<0.0052 U	<0.0064 U	<0.0052 U	<0.011 U	<0.0079 U	<0.011 U	<0.0060 U	<0.0071 U	<0.0079 U	<0.014 U	<0.011 U	<0.011 U	<0.0084 U	<0.019 U	<0.019 U	<0.015 U	<0.0081 U	0.024	
061719003	MW-707R	06/17/2019	107	6.3	30.9	0.90	2.5	<0.24 U	<0.33 U	<0.18 U	<0.22 U	<0.24 U	<0.41 U	<0.32 U	0.48 J	12.1	<0.56 U	398	7.9	0.61 J	567	
061719004	PZ-703	06/17/2019	0.070	0.012 J	0.44	0.014 J	0.018 J	<0.0078 U	<0.011 U	<0.0059 U	<0.0070 U	<0.0078 U	<0.013 U	<0.010 U	<0.011 U	0.10	<0.018 U	0.040 J	0.053 J	0.010 J	0.76	
061719005/061719006 (N)	MW-701R	06/17/2019	158	96.9	101	<0.49 U	14.0	<0.74 U	<1.0 U	<0.56 U	<0.66 U	<0.74 U	<1.3 U	<0.98 U	2.3 J	21.2	<1.7 U	994	33.7	3.2 J	1,420	
061719007	PZ-701	06/17/2019	0.0092 J	<0.0049 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0075 U	<0.010 U	<0.0057 U	<0.0067 U	<0.0075 U	<0.013 U	<0.0099 U	0.011 J	<0.0079 U	<0.017 U	0.045 J	0.018 J	0.011 J	0.11	
061719008	PZ-702	06/17/2019	0.014 J	<0.0049 U	<0.0060 U	<0.0049 U	<0.010 U	<0.0075 U	<0.010 U	<0.0057 U	<0.0067 U	<0.0075 U	<0.013 U	<0.0099 U	<0.011 U	<0.0079 U	<0.017 U	0.049 J	<0.014 U	<0.0076 U	0.074	
061719009	MW-706	06/17/2019	168	107	6.9	71.7	5.8 J	<1.5 U	<2.1 U	<1.1 U	<1.3 U	<1.5 U	<2.6 U	<2.0 U	2.1 J	17.9	<3.5 U	1,680	20.7	2.9 J	2,080	
061719010	Equipment Blank	06/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
061719011	Trip Blank	06/17/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>Total Number of Samples Analyzed:</b>			8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
<b>Number of Detections:</b>			6	4	4	3	4	0	0	0	0	0	0	0	0	4	4	0	6	5	5	8
<b>Min:</b>			0.0092	0.012	0.44	0.014	0.018	0	0	0	0	0	0	0	0	0.011	0.1	0	0.04	0.018	0.01	0.024
<b>Max:</b>			168	107	101	71.7	14	0	0	0	0	0	0	0	2.3	21.2	0	1,680	33.7	3.2	2,080	
<b>Groundwater SL:</b>			NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3,000	250	NS	
<b>Number of Samples that Exceed Groundwater SL:</b>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
<b>WI Groundwater PAL:</b>			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	NS	
<b>Number of Samples that Exceed WI Groundwater PAL:</b>			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
<b>Tap Water RSL:</b>			1.1	36	530	530	1,800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.17	1,800	120	NS	
<b>Number of Samples that Exceed Tap Water RSL:</b>			3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	

Sorted by 9-digit Code

Analyte concentration exceeds the standard for:

<b>BOLD</b>	Groundwater SL
<u>Underline</u>	WI Groundwater PAL
<i>Italic</i>	Tap Water RSL

Yellow highlighting in statistics = detected Exceedances

Pink highlighting in the table = a GW SL exceedance;

results only exceeding the PAL and/or Tap Water criteria are not highlighted.

Statistics exclude the quality control samples (Equipment and Trip Blanks)

**Screening Levels:**

Screening Levels used on this table were presented in the Multi-Site Risk Assessment Framework (RAF) Addendum Revision 6, issued in August 2017.

Since that time, three revisions of the RSLs have been published by EPA in November 2017, May 2018, and November 2018. As a result of these three revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

The Groundwater SL presented is the more conservative of the State and MCL values from the RAF Addendum Revision 6.

PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

-- = Analysis not performed

< = Concentration is less than reported limit

µS/cm = microsiemens per centimeter (aka micromhos per centimeter)

µg/L = micrograms per liter

BTEX = Benzene, Toluene, Ethylbenzene and Xylene

Deg C = degrees Celsius

J = Estimated Concentration

mg/L = milligrams per liter

(N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol

NS = No Screening Level

NO2 + NO3 = nitrite plus nitrate

NTU = Nephelometric Turbidity Unit

PAH = Polycyclic Aromatic Hydrocarbon

PAL = Preventive Action Limit; results that attain or exceed this criteria are considered in exceedance of the PAL

RNA = Remediation by Natural Attenuation (lab and field)

RSL = Regional Screening Level

s.u. = standard units

SL = Screening Level

U = Concentration was not detected above the reported limit

Lab comments and definitions can be found in associated laboratory reports.



**Table 1 - June 2019 Groundwater Sample Results**

Wisconsin Public Service Corp., Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 0260000095 FID#: 460134950 USEPA#: WIN000510058

9-digit Code	Sample Location	Sample Date	BTEX		BTEX		BTEX		BTEX		Inorganic		Inorganic		Organic		RNA		RNA		RNA		RNA		RNA		RNA		
			Benzene	Ethylbenzene	Toluene	Xylenes, Total	Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> , Total	Sulfate, Total	Methane	Dissolved oxygen	Groundwater, depth to	Oxidation Reduction Potential	pH, Field	Specific Conductance, Field	Temperature, Water	Turbidity, Quantitative													
Reporting Units:			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	feet	millivolts	s.u.	µS/cm	Deg C	NTUs											
			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag			
<b>Groundwater SL:</b>			5		700		800		2,000		NS		NS		NS		NS		NS		NS		NS		NS		NS		
<b>WI Groundwater PAL:</b>			0.5		140		160		400		2,000		125,000		NS		NS		NS		NS		NS		NS		NS		
<b>Tap Water RSL:</b>			0.46		1.5		1,100		190		NS		NS		NS		NS		NS		NS		NS		NS		NS		
061719001	MW-709R	06/17/2019	<0.25	U	<0.22	U	0.81	J	3.6		<95	U	5,500		3,540		0.27		4.34		-72.2		6.91		2122.1		10.90		29.86
061719002	MW-708	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	110	J	50,400		<1.4	U	3.68		9.98		178.5		7.15		2841.3		11.40		33.20
061719003	MW-707R	06/17/2019	<b>2,630</b>		<b>2,570</b>		30.2	J	<b>636</b>		<95	U	47,700		6,730		0.10		3.80		-178.8		6.93		1545.5		11.41		44.73
061719004	PZ-703	06/17/2019	<b>363</b>		<b>209</b>		10.6	J	94.0		<95	U	<1,000	U	1,560		0.18		3.96		-156.6		7.22		574.8		12.28		1.45
061719005/061719006 (N)	MW-701R	06/17/2019	<b>3,130</b>		<b>278</b>		13.0	J	152		<95	U	<5,000	U	12,300		0.09		5.02		-140.4		6.23		1825.6		11.22		739.55
061719007	PZ-701	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	390		112,000		5.6		0.30		4.87		-31.1		7.11		633.8		13.61		75.91
061719008	PZ-702	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	<95	U	1,500	J	<1.4	U	2.71		6.04		15.2		7.45		198.8		16.09		1.62
061719009	MW-706	06/17/2019	<b>2,670</b>		<b>480</b>		<b>1,640</b>		<b>648</b>		<95	U	89,300		5.8		0.13		7.74		-162.2		7.02		1017.4		15.17		4.43
061719010	Equipment Blank	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	--		--		--		--		--		--		--		--		--		--
061719011	Trip Blank	06/17/2019	<0.25	U	<0.22	U	<0.17	U	<1.5	U	--		--		<1.4	U	--		--		--		--		--		--		--

<b>Total Number of Samples Analyzed:</b>	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<b>Number of Detections:</b>	4	4	5	5	2	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<b>Min:</b>	363	209	0.81	3.6	110	1,500	5.6	0.09	3.8	-178.8	6.23	198.8	10.9	1.45															
<b>Max:</b>	3,130	2,570	1,640	648	390	112,000	12,300	3.68	9.98	178.5	7.45	2,841	16.09	739.55															
<b>Groundwater SL:</b>	5	700	800	2,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS															
<b>Number of Samples that Exceed Groundwater SL:</b>	4	1	1	0	0	0	0	0	0	0	0	0	0	0															
<b>WI Groundwater PAL:</b>	0.5	140	160	400	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS															
<b>Number of Samples that Exceed WI Groundwater PAL:</b>	4	4	1	2	0	0	0	0	0	0	0	0	0	0															
<b>Tap Water RSL:</b>	0.46	1.5	1,100	190	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS															
<b>Number of Samples that Exceed Tap Water RSL:</b>	4	4	1	2	0	0	0	0	0	0	0	0	0	0															

[O:MGP 7/22/19, C: CMD 7/29/19, QC: EDP 7/30/19]

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