



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

June 14, 2019

Ms. Margaret Gielniewski
Remedial Project Manager
United States Environmental Protection Agency
77 W. Jackson Blvd.
Chicago, Illinois 60604-3590

**RE: May 2019 Monthly Progress Report
Marinette Former Manufactured Gas Plant
Marinette, Wisconsin
Wisconsin Public Services Corporation
CERCLA Docket No V-W-18-C-009, Site Spill ID – B5BT,
CERCLIS ID – WIN000509952**

Dear Ms. Gielniewski:

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

1) PROGRESS MADE DURING THE PAST MONTH

- Prepared and submitted April 2019 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by May 15, 2019.
- Continued development of a response to comments letter and Preliminary Design Investigation Work Plan Revision 1 based on USEPA comments provided on October 9, 2018.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Received analytical data packages from the Spring 2019 groundwater sampling event and uploaded into the site database. Analytical data packages and preliminary screening tables are included as an attachment to this monthly progress report.

3) PROJECTED WORK

WPSC Actions

- Submit monthly progress report to USEPA by the 15th of the month.
- Meet with Sarah Rolfes (USEPA Interim Remedial Project Manager) to provide an update on project status and develop a path forward.
- Continue development of Preliminary Design Investigation Work Plan Revision 1.

USEPA Actions

- Coordinate a meeting between WPSC and USEPA Interim Remedial Project Manager.

4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

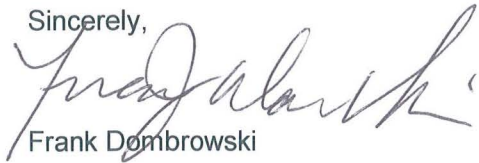
- None

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

If you have any questions, please don't hesitate to contact me at (414) 221-2156 or via email at frank.dombrowski@wecenergygroup.com.

Sincerely,

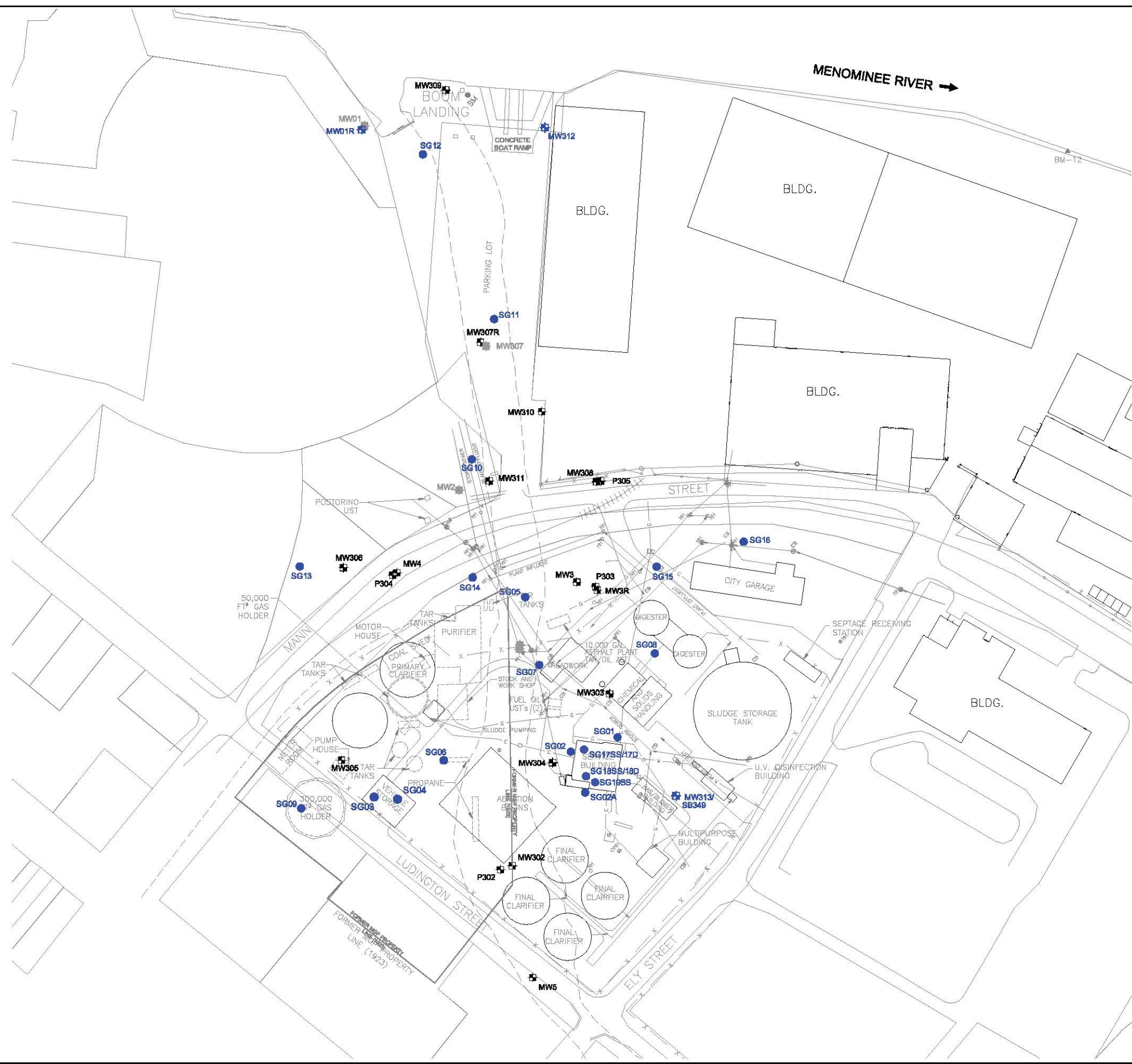


Frank Dombrowski
Principal Environmental Consultant
WEC Business Services – Environmental Dept.

Enclosures: Site Map
Spring 2019 Groundwater Analytical Results Screening Tables

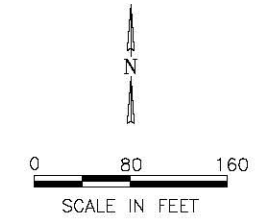
For distribution to: Ms. Sarah Rolfes, USEPA (via email)
Mr. Kevin McKnight, WDNR (via US Mail and email)
Mr. Bill Fitzpatrick, WDNR (via US Mail and email)
Ms. Cheryl Bougie, WDNR (via email)
WDNR Northeast Region (via email to DNRRRNER@wisconsin.gov)
Ms. Jennifer Knoepfle, Jacobs (via email)
Mr. Marcus Byker, OBG, Part of Ramboll (via email)

Jan 21, 2015 1:52pm PLOTTED BY: dduddo SAVED BY: dduddo
 W:\CAD\Projects\1549\Marinette\17-5 RI Report Rev\1549-175-Base.dwg -Layout1
 XREFS: Y:\CAD\Projects\1549\Marinette\17-5 RI Report Rev\1549-175-Base.dwg



	MONITORING WELL
	PIEZOMETER
	ABANDONED MONITORING WELL
	ABANDONED PIEZOMETER
	SOIL GAS PROBE
	GAS LINE
	WATER LINE
	ELECTRICAL LINE
	OVERHEAD ELECTRIC LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	UNDERGROUND ELECTRIC LINE
	FORMER SLOUGH
	FORMER MGP PROPERTY LINE (1923)
	FORMER MGP STRUCTURE
	EXISTING STRUCTURE

NOTE:
 SAMPLING LOCATIONS IN BLUE WERE COMPLETED AS PART OF REMEDIAL INVESTIGATION ACTIVITIES IN 2012/2013/2014.



- SOURCE NOTES:**
- THIS DRAWING WAS DEVELOPED FROM A MAP BY THE CITY OF MARINETTE.
 - PORTIONS OF THE DRAWING ARE FROM A DIGITAL FILE FROM STS CONSULTANTS, LTD. CONSULTING ENGINEERS, GREEN BAY, WISCONSIN, PROJECT NUMBER 28936, REVISED JANUARY 2001. HYDROGRAPHIC SURVEY OF RIVER WAS PERFORMED BY AYRES AND ASSOCIATES ON JULY 24-26, 2001. VERTICAL CONTROL IS U.S.G.S. DATUM. BUILDING AND STREET LOCATIONS NORTH OF RAILROAD TRACKS WERE SUPPLIED BY MARINETTE MARINE CORPORATION.
 - PORTIONS OF THIS DRAWING ARE FROM HYDRO-SEARCH DRAWING.
 - EXISTING STRUCTURES AND UTILITIES FROM FOTH & VAN DYKE ENGINEERS/ARCHITECTS, GRADING PLAN, DIGITAL FILE 7m755606.DWG, RECORD DRAWING REVISIONS 22250 AND FROM SMET CONSTRUCTION SERVICES PDF DRAWING SET "MARINETTE MARINE BLDG 32 OUTFITTING", SHEET C1.1, DATED APRIL 24, 2012.
 - WELL LOCATIONS FROM A SURVEY BY WPSO DATED OCTOBER 8, 2003, REVISED OCTOBER 31, 2003.
 - VERTICAL CONTROL IS NAVD83 DATUM
 - BRICK INTERCEPTOR SEWER REPLACEMENT TAKEN FROM DRAWING BY AYRES ASSOCIATES, GREEN BAY, WISCONSIN, JOB NO. 18-0188.10, DRAWING NO. P101, SHEET NO. 7, DATED 3/4/03.
 - MONITORING WELLS MW2R, MW3R, MW307R INSTALLED OCTOBER 2004 AND MW308, MW310, P305 INSTALLED JUNE 2004. SURVEYED BY WPSO IN JANUARY 2005. (NAVD83, MARINETTE COUNTY COORDINATES).
 - POSTORINO USTs WERE IDENTIFIED IN AYRES ASSOCIATES SITE ASSESSMENT AND REMEDIAL ACTION OPTIONS REPORT. CITY OF MARINETTE PROPERTY 500 MANN STREET MARINETTE WISCONSIN 54143 DATED AUGUST 2010.
 - BOOM LANDING SITE WAS DEVELOPED FROM A SURVEY DONE BY WISCONSIN PUBLIC SERVICE BY IJR BOOM LANDING SITE FEATURES DEVELOPED FROM A SURVEY ON 08/14/12, DRAWING "BOOM LANDING 8 - 12". THE CHANNEL LIMITS AND PORTIONS OF THE SHORELINE ARE FROM U.S. ARMY CORPS OF ENGINEERS DRAWING "CONDITION OF CHANNEL-SEP. 2008", SHEET 4 OF 4.
 - HORIZONTAL DATUM IS MARINETTE COUNTY COORDINATE SYSTEM, UNITS=US FOOT.
 - SOME OFF-SITE UPLAND FEATURES DIGITIZED FROM BING MAPS AERIAL- © 2012 MICROSOFT CORPORATION.
 - BM-SG IS LOCATED ON TOP OF SHEET PILE WALL EAST OF BOAT RAMP.
 - SAMPLING LOCATIONS SB352 THROUGH SB370 COLLECTED BY NRT, OCTOBER 2014.

DRAWN BY:	DMD	DATE:	11/13/14
CHECKED BY:	NDK	DATE:	11/24/14
APPROVED BY:	BGH	DATE:	01/21/15
DRAWING NO:		1549-175-B06	
REFERENCE:			

MONITORING WELLS AND SOIL VAPOR SAMPLING LOCATIONS



PROJECT NO.
 1549/17.5

FIGURE NO.
 1

Table 1 - Groundwater Analytical Results Compared to the Groundwater Standard and Tap Water Criteria

April 2019 Groundwater Sampling Results
 Wisconsin Public Service Corporation - Marinette Former MGP, Marinette, Wisconsin
 CERCLIS ID -WIN000509952

9-digit Code	Station Name	Sample Date	BTEX		BTEX		BTEX		BTEX		BTEX		PAH		PAH		PAH		PAH		PAH		PAH		PAH									
			Benzene		Ethylbenzene		Toluene		Xylene, o		Xylenes, m + p		Xylenes, Total		Anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Chrysene		Fluoranthene		Fluorene		Naphthalene		Phenanthrene		Pyrene	
			µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag	µg/L	Flag		
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			
WI Groundwater SL:			5		700		800		NS		NS		2,000		3,000		0.2		0.2		NS		0.2		400		400		100		3,000		250	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		600		0.02		0.02		NS		0.02		80		80		10		NS		50	
Tap Water RSL:			0.46		1.5		1,100		190		190		190		1,800		0.025		0.25		120		25		800		290		0.17		1,800		120	
041619015	MW01R	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	0.011	J	<0.0071	U	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	<0.0081	U
041619019	MW03R	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.016	J	0.020	J	0.029	J	0.018	J	0.027	J	0.021	J	<0.0088	U	<0.020	U	<0.015	U	0.020	J
041519007/041519008 (N)	MW05	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	0.011	J	0.0080	J	0.020	J	0.025	J	<0.0083	U	0.047	J	0.021	J	0.020	J
041519002	MW302	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.030	J	0.094	J	0.088	J	0.075	J	0.11	J	0.091	J	<0.0085	U	<0.020	U	0.025	J	0.091	J
041519005	MW303	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.025	J	<0.011	U	0.014	J	0.0086	J	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	0.019	J
041519004	MW304	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.028	J	<0.012	U	<0.0068	U	<0.0080	U	<0.015	U	<0.013	U	<0.0094	U	<0.022	U	<0.016	U	<0.0090	U
041519001	MW305	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.023	J	<0.011	U	<0.0062	U	<0.0073	U	<0.014	U	<0.011	U	<0.0086	U	<0.020	U	<0.015	U	<0.0082	U
041619013	MW306	4/16/2019	<0.49	U	1.9	J	<0.34	U	6.7	J	6.3	J	13.0	J	<0.056	U	<0.057	U	<0.031	U	<0.036	U	<0.070	U	<0.057	U	<0.043	U	81.8	J	<0.074	U	0.15	J
041519011	MW307R	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.077	J	0.041	J	0.063	J	0.031	J	0.093	J	0.20	J	0.19	J	0.033	J	0.13	J	0.19	J
041519009	MW308	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.010	U	<0.010	U	<0.0057	U	<0.0067	U	<0.013	U	0.012	J	<0.0079	U	<0.018	U	<0.014	U	0.011	J
041619016/041619017 (N)	MW310	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.038	J	<0.012	U	<0.0063	U	<0.0075	U	0.019	J	0.090	J	0.80	J	0.069	J	0.019	J	0.088	J
041619018	MW311	4/16/2019	64.9	J	74.0	J	6.0	J	45.1	J	14.5	J	59.6	J	3.3	J	<0.37	U	<0.20	U	<0.24	U	<0.46	U	1.6	J	18.2	J	416	J	16.8	J	1.7	J
041619014	MW312	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.035	J	<0.012	U	<0.0067	U	<0.0079	U	<0.015	U	0.034	J	0.078	J	<0.021	U	0.049	J	0.034	J
041519006	MW313	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.019	J	<0.011	U	0.012	J	0.011	J	0.017	J	0.024	J	0.012	J	<0.020	U	<0.015	U	0.019	J
041519003	P302	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	<0.011	U	<0.011	U	<0.0060	U	<0.0071	U	<0.014	U	<0.011	U	<0.0084	U	<0.019	U	<0.015	U	<0.0081	U
041619020	P303	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.021	J	0.015	J	0.015	J	0.011	J	0.027	J	0.024	J	<0.0080	U	<0.018	U	0.022	J	0.030	J
041619021	P304	4/16/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.066	J	0.038	J	0.069	J	0.046	J	0.099	J	0.11	J	<0.010	U	<0.024	U	0.047	J	0.095	J
041519010	P305	4/15/2019	<0.25	U	<0.22	U	<0.17	U	<0.26	U	<0.47	U	<1.5	U	0.041	J	<0.011	U	0.011	J	0.0075	J	0.017	J	0.20	J	0.36	J	0.11	J	0.075	J	0.14	J
Total Number of Samples Analyzed:			18		18		18		18		18		18		18		18		18		18		18		18		18		18		18		18	
Number of Detections:			1		2		1		2		2		2		13		5		10		9		9		12		6		6		9		14	
Min:			64.9		1.9		6		6.7		6.3		13		0.016		0.015		0.011		0.0075		0.017		0.012		0.012		0.033		0.019		0.011	
Max:			64.9		74		6		45.1		14.5		59.6		3.3		0.094		0.088		0.075		0.11		1.6		18.2		416		16.8		1.7	
WI Groundwater SL:			5		700		800		NS		NS		2,000		3,000		0.2		0.2		NS		0.2		400		400		100		3,000		250	
Number of Samples that Exceed WI Groundwater SL:			1		0		0		0		0		0		0		0		0		0		0		0		0		1		0		0	
WI Groundwater PAL:			0.5		140		160		NS		NS		400		600		0.02		0.02		NS		0.02		80		80		10		NS		50	
Number of Samples that Exceed WI Groundwater PAL:			1		0		0		0		0		0		0		4		4		0		6		0		0		2		0		0	
Tap Water RSL:			0.46		1.5		1,100		190		190		190		1,800		0.025		0.25		120		25		800		290		0.17		1,800		120	
Number of Samples that Exceed Tap Water RSL:			1		2		0		0		0		0		0		3		0		0		0		0		0		2		0		0	

Analyte concentration exceeds the standard for:

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

Pink highlighting = result exceeds the Groundwater SL; Tap Water or PAL exceedances are not highlighted if they do not also exceed the Groundwater SL

Yellow highlighting = one or more exceedances detected

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

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Groundwater and Tap Water 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, four (4) revisions of the RSLs have been published by EPA. As a result of these four revisions through May 2019, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

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

-- = Analysis not performed

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

< = Concentration is less than the Limit of Detection (LOD)

µg/L = micrograms per liter

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

BTEX = Benzene, Toluene, Ethylbenzene and Xylene

Deg C = degrees Celsius

J = Concentration Estimated

mg/L = milligrams per liter

MGP = Manufactured Gas Plant

NS = No Standard

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

Table 1 - Groundwater Analytical Results Compared to the Groundwater Standard and Tap Water Criteria

April 2019 Groundwater Sampling Results
 Wisconsin Public Service Corporation - Marinette Former MGP, Marinette, Wisconsin
 CERCLIS ID -WIN000509952

9-digit Code	Station Name	Sample Date	Metal		Metal		Metal		Metal		Metal		Metal		Metal		Metal		Inorganic		Inorganic		Inorganic		Organic		RNA		RNA		RNA		RNA		RNA		
			Aluminum, Dissolved	Antimony, Dissolved	Copper, Dissolved	Iron, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Silver, Dissolved	Vanadium, Dissolved	Zinc, Dissolved	Alkalinity, Total	Nitrogen, NO2 + NO3, Total	Sulfate, Total	Methane	Dissolved oxygen	Groundwater, depth to	Oxidation Reduction Potential	pH, Field	Specific Conductance, Field	Temperature, Water	Turbidity, Quantitative	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	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	
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	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	feet	millivolts	s.u.	µS/cm	Deg C	NTUs				
WI Groundwater SL:			200	6	1,300	NS	300	100	50	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
WI Groundwater PAL:			40	1.2	130	150	25	20	10	6	2,500	NS	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS				
Tap Water RSL:			20,000	7.8	800	14,000	430	390	94	86	6,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS				
041619015	MW01R	4/16/2019	<117 U	<0.30 U	<2.2 U	<u>7,980</u>	723	2.3 J	<0.20 U	1.1 J	9.5 J	411,000	<95 U	<5,000 U	16,800	0.23	2.20	-93.0	6.79	799.1	4.70	7.08															
041619019	MW03R	4/16/2019	<117 U	0.87 J	6.4 J	<221 U	22.2	2.7	<0.20 U	0.81 J	27.5 J	281,000	<u>9,000</u>	53,700	10.4	2.29	3.10	65.2	6.80	1289.3	6.34	11.11															
041519007/041519008 (N)	MW05	4/15/2019	<117 U	<0.30 U	2.7 J	<221 U	<u>219</u>	2.7	<0.20 U	<0.63 U	<9.2 U	256,000	<u>2,200</u>	73,700	<1.4 U	0.59	6.08	30.5	7.51	1427.8	9.48	21.02															
041519002	MW302	4/15/2019	<117 U	<0.30 U	4.1 J	<u>286</u>	J	<5.4 U	2.4 J	<0.20 U	<0.63 U	11.2 J	251,000	<u>6,100</u>	102,000	<1.4 U	2.41	10.75	311.7	6.76	2192.7	8.27	4.61														
041519005	MW303	4/15/2019	<117 U	0.72 J	3.8 J	<u>1,340</u>	<u>209</u>	2.0 J	<0.20 U	<0.63 U	12.0 J	314,000	1,800	<u>524,000</u>	111	1.62	2.44	-34.9	7.12	2168.9	8.96	8.27															
041519004	MW304	4/15/2019	<117 U	<u>1.4</u>	J	13.7	<221 U	347	2.2 J	<0.20 U	1.7 J	15.3 J	298,000	1,400	15,000	6.5	0.33	4.54	133.0	7.23	922.8	8.71	10.95														
041519001	MW305	4/15/2019	<117 U	<0.30 U	3.4 J	<u>686</u>	J	<5.4 U	2.4 J	<0.20 U	<0.63 U	15.7 J	264,000	<u>5,200</u>	105,000	<1.4 U	3.56	13.41	277.5	7.16	1698.7	10.17	5.24														
041619013	MW306	4/16/2019	<117 U	<0.30 U	<2.2 U	<u>16,600</u>	549	1.0 J	<0.20 U	2.0 J	13.0 J	396,000	260	<5,000 U	7,120	0.98	3.05	-86.7	6.87	864.9	5.52	12.54															
041519011	MW307R	4/15/2019	<117 U	<0.30 U	<2.2 U	<u>17,900</u>	848	13.1	<0.20 U	<0.63 U	<9.2 U	344,000	680	<u>137,000</u>	2,780	0.33	2.91	-108.5	7.21	1146.7	6.11	16.67															
041519009	MW308	4/15/2019	<117 U	0.87 J	11.0	<u>416</u>	J	<u>79.1</u>	<u>30.3</u>	<0.20 U	<0.63 U	373	610,000	<u>2,300</u>	<u>569,000</u>	<1.4 U	2.73	4.44	95.3	6.67	11751.4	8.44	21.10														
041619016/041619017 (N)	MW310	4/16/2019	<117 U	<0.30 U	<2.2 U	<u>17,400</u>	1,040	1.0 J	<0.20 U	1.3 J	15.8 J	481,000	130 J	108,000	1,440	0.44	3.72	-111.8	7.07	1913.6	8.02	27.26															
041619018	MW311	4/16/2019	<117 U	<0.30 U	3.2 J	<u>33,300</u>	688	1.5 J	<0.20 U	1.5 J	15.7 J	764,000	<95 U	<5,000 U	6,440	0.30	3.63	-124.2	6.92	2707.7	7.54	9.21															
041619014	MW312	4/16/2019	<117 U	<0.30 U	<2.2 U	<u>19,400</u>	903	2.0 J	<0.20 U	<0.63 U	<9.2 U	775,000	<95 U	<5,000 U	20,500	0.24	1.35	-113.1	6.96	1949.5	6.78	42.57															
041519006	MW313	4/15/2019	<117 U	0.54 J	<2.2 U	<u>7,410</u>	723	3.7	<0.20 U	1.4 J	11.1 J	273,000	360	<u>186,000</u>	1,200	0.11	2.09	-16.1	6.82	1520.8	6.02	63.29															
041519003	P302	4/15/2019	<117 U	<0.30 U	<2.2 U	<u>1,540</u>	351	1.5 J	<0.20 U	0.77 J	<9.2 U	262,000	180 J	66,500	17.7	1.69	10.99	14.9	7.08	1387.7	10.54	5.54															
041619020	P303	4/16/2019	<u>140</u>	J	<0.30 U	2.6 J	<u>268</u>	J	<u>30.6</u>	1.8 J	<0.20 U	0.94 J	15.7 J	147,000	210 J	<u>893,000</u>	<1.4 U	--	30.13	--	--	--															
041619021	P304	4/16/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.05	--	--	--	--															
041519010	P305	4/15/2019	<117 U	<0.30 U	<2.2 U	<u>685</u>	J	<u>218</u>	1.3 J	<0.20 U	0.74 J	41.1	333,000	180 J	30,400	58.5	0.64	5.03	52.0	7.03	3434.4	10.34	5.93														
Total Number of Samples Analyzed:			17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	18	16	16	16	16	16	16					
Number of Detections:			1	5	9	14	15	17	0	10	13	17	14	13	12	16	18	16	16	16	16	16	16	16	16	18	16	16	16	16	16	16					
Min:			140	0.54	2.6	268	22.2	1	0	0.74	9.5	147,000	130	15,000	6.5	0.11	1.35	-124.2	6.67	799.1	4.7	4.61															
Max:			140	1.4	14	33,300	1,040	30.3	0	2	373	775,000	9,000	893,000	20,500	3.56	33.05	311.7	7.51	11,751	10.54	63.29															
WI Groundwater SL:			200	6	1,300	NS	300	100	50	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS					
Number of Samples that Exceed WI Groundwater SL:			0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
WI Groundwater PAL:			40	1.2	130	150	25	20	10	6	2,500	NS	2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS					
Number of Samples that Exceed WI Groundwater PAL:			1	1	0	14	14	1	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Tap Water RSL:			20,000	7.8	800	14,000	430	390	94	86	6,000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS					
Number of Samples that Exceed Tap Water RSL:			0	0	0	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

[O:ECK 5/30/2019][C:MGP 5/31/19] [Q:JQW 6/4/19]

Analyte concentration exceeds the standard for:

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

Pink highlighting = result exceeds the Groundwater SL; Tap Water or PAL exceedances are not highlighted if they do not also exceed the Groundwater SL

Yellow highlighting = one or more exceedances detected

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

Lab comments, additional data qualifiers and definitions can be found in associated laboratory reports.

Groundwater and Tap Water 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, four (4) revisions of the RSLs have been published by EPA. As a result of these four revisions through May 2019, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.
 PAL from Chapter NR 140 for Groundwater Quality from Wisconsin Admin Code (Feb 2017)

-- = Analysis not performed
 (N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
 < = Concentration is less than the Limit of Detection (LOD)
 µg/L = micrograms per liter
 µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
 BTEX = Benzene, Toluene, Ethylbenzene and Xylene
 Deg C = degrees Celsius

J = Concentration Estimated
 mg/L = milligrams per liter
 MGP = Manufactured Gas Plant
 NS = No Standard
 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