



Wisconsin Public Service Corporation

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[www.wisconsinpublicservice.com](http://www.wisconsinpublicservice.com)

January 22, 2021

Ms. Terese Van Donsel  
Project Manager  
United States Environmental Protection Agency  
77 W. Jackson Boulevard  
Chicago, Illinois 60604-3590

**RE: December 2020 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 Ms. Van Donsel:

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 November 2020 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by December 26, 2020.
- Completed fourth quarter field-measured parameter and groundwater sampling event on December 11, 2020.

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

- Groundwater analytical results summary tables from the December 2020 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**

- As discussed on the April 30, 2020 conference call, determine a path for deferral of site authority to the State of Wisconsin.

**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) 221-3948 or [robert.paulson@wecenergygroup.com](mailto:robert.paulson@wecenergygroup.com).

Sincerely,



Robert Paulson  
Principal Environmental Consultant

Enclosures:            Site Map  
                              December 2020 Groundwater Results Summary Tables

For distribution to:    Mr. John Feeney, WDNR (US Mail and email)  
                                  Mr. Andrew Cawrse, Ramboll (email)



**Table 1. December 2020 Groundwater Sample Results**

Wisconsin Public Service Corporation  
 Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 026000095 | FID#: 460134950 | USEPA#: WIN000510058

9-digit Code	Sample Location	Sample Date	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	BTEX	BTEX	BTEX	BTEX		
			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	Benzene	Ethylbenzene	Toluene	Xylenes, Total
			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
Reporting Units:			Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
WI Groundwater SL:			NS	NS	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3,000	250	5	700	800	2,000
WI Groundwater PAL:			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	0.5	140	160	400
Tap Water RSL:			1.1	36	530	530	1,800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.12	1,800	120	0.46	1.5	1,100	190
121120005/121120006 (N)	MW-701R	12/11/2020	130	88.7	97.7	2.6 U	5.6 U	4.0 U	5.6 U	3.1 U	3.6 U	4.0 U	6.9 U	5.3 U	5.7 U	19.8 J	9.4 U	1,030	48.9 J	7.9 J	4,220	309	19.0 J	176
121120013	MW-705	12/10/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
121120009	MW-706	12/11/2020	191	55.3	11.9 J	115	5.6 U	4.1 U	5.7 U	3.1 U	3.6 U	4.1 U	7.0 U	5.4 U	5.7 U	14.7 J	9.5 U	701	17.8 J	4.1 U	2,540	390	979	438
121020003	MW-707R	12/10/2020	66.3	11.4	37.0	1.3 J	2.7 J	0.79 U	1.1 U	0.60 U	0.71 U	0.79 U	1.4 U	1.1 U	1.1 U	7.1	1.9 U	404	10.2	1.4 J	2,920	2,080	28.3 J	559
121020002	MW-708	12/10/2020	0.0059 U	0.0049 U	0.0061 U	0.0050 U	0.010 U	0.0076 U	0.011 U	0.0057 U	0.0068 U	0.0076 U	0.013 U	0.010 U	0.011 U	0.0080 U	0.018 U	0.018 U	0.014 U	0.0076 U	0.25 U	0.32 U	0.27 U	1.5 U
121020001	MW-709R	12/10/2020	0.0064 U	0.0053 U	0.0066 U	0.0054 U	0.011 U	0.0082 U	0.011 U	0.0062 U	0.0074 U	0.0082 U	0.014 U	0.011 U	0.012 U	0.0087 U	0.019 U	0.020 U	0.015 U	0.0083 U	0.25 U	0.32 U	0.31 J	1.7 J
121120007	PZ-701	12/11/2020	0.023 J	0.016 J	0.013 J	0.0050 U	0.010 U	0.0076 U	0.011 U	0.0057 U	0.0068 U	0.0076 U	0.013 U	0.010 U	0.011 U	0.0080 U	0.018 U	0.014 U	0.014 U	0.0076 U	0.25 U	0.32 U	0.27 U	1.5 U
121120008	PZ-702	12/11/2020	0.0078 J	0.0048 U	0.0059 U	0.0048 U	0.010 U	0.0073 U	0.010 U	0.0056 U	0.0066 U	0.0073 U	0.013 U	0.0097 U	0.010 U	0.0077 U	0.017 U	0.034 J	0.013 U	0.0079 J	0.25 U	0.32 U	0.27 U	1.5 U
121120004	PZ-703	12/11/2020	0.22	0.035	0.50	0.025 J	0.023 J	0.0079 U	0.011 U	0.0060 U	0.0071 U	0.0079 U	0.014 U	0.011 U	0.011 U	0.069	0.019 U	0.11	0.041 J	0.0081 U	244	87.9	6.0	44.6
121120010	EB01	12/11/2020	0.031 J	0.0077 J	0.0079 U	0.016 J	0.014 U	0.0098 U	0.014 U	0.0075 U	0.0088 U	0.0098 U	0.017 U	0.013 U	0.014 U	0.010 U	0.023 U	0.12	0.018 U	0.0099 U	0.25 U	0.32 U	0.27 U	1.5 U
121120011	TB01	12/11/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25 U	0.32 U	0.27 U	1.5 U
121120012	SG-703	12/10/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Number of Samples Analyzed:			8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detections:			6	5	5	3	2	0	0	0	0	0	0	0	0	4	0	6	4	3	4	4	5	5
Min:			0.0078	0.016	0.013	0.025	0.023	NA	NA	NA	NA	NA	NA	NA	0.069	NA	0.034	0.041	0.0079	244	87.9	0.31	1.7	
Max:			191	88.7	97.7	115	2.7	NA	NA	NA	NA	NA	NA	NA	19.8	NA	1,030	48.9	7.9	4,220	2,080	979	559	
Groundwater SL:			NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3000	250	5	700	800	2000
Number of Samples that Exceed Groundwater SL:			0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	1	1	1	0
WI Groundwater PAL:			NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50	0.5	140	160	400
Number of Samples that Exceed WI Groundwater PAL:			0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	3	1	2	2
Tap Water RSL:			1.1	36	530	530	1800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.12	1800	120	0.46	1.5	1100	190
Number of Samples that Exceed Tap Water RSL:			3	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	4	0	0	2

Sorted by sample location

Analyte concentration attains or exceeds the standard/screening level for:

<b>Bold</b>	Groundwater SL
<u>Underlined</u>	WI Groundwater PAL
<i>Italic</i>	Tap Water RSL
<span style="background-color: #FFC0CB;">Pink Highlighting</span>	Groundwater SL exceedance; results only attaining/exceeding the PAL and/or Tap Water criteria are not highlighted.
<span style="background-color: #FFFF00;">Yellow Highlighting</span>	analyte exceedance in statistics for one or more samples

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

Result values/flags may differ from lab report values/flags due to changes applied in third party validation report.

**Results & Flags:**

- = Analysis not performed
- J = Estimated Concentration
- U = Concentration was not detected above the reported limit

**Acronyms:**

- (N) = Normalized sample locations created from combining parent and field duplicate samples following EPA protocol
- µg/L = micrograms per liter
- µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
- BRRTS = Bureau for Remediation and Redevelopment Tracking System
- BTEX = Benzene, Toluene, Ethylbenzene and Xylene
- Deg C = degrees Celsius
- EB = Equipment Blank
- EPA = Environmental Protection Agency

**MCL = Maximum Contaminant Level**

- MGP = Manufactured Gas Plant
- NA = Not Applicable
- NO2 + NO3 = nitrite plus nitrate
- NS = No Screening Level
- NTU = Nephelometric Turbidity Unit
- PAH = Polycyclic Aromatic Hydrocarbon
- PAL = Preventive Action Limit
- RAF = Risk Assessment Framework
- RSL = Regional Screening Level
- s.u. = standard units
- SL = Screening Level
- TB = Trip Blank
- USEPA = United States Environmental Protection Agency

**Superscript Notes:**

- 1. Field parameters were analyzed at time of sampling using an InSitu Aquatroll multiparameter sonde.

**Screening Levels and Standards:**

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, seven revisions of the RSLs have been published by EPA through November 2020. As a result of these seven revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table. PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

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

**Table 1. December 2020 Groundwater Sample Results**

Wisconsin Public Service Corporation  
 Former Manufactured Gas Plant Site - Campmarina  
 732 Water Street, Sheboygan, Wisconsin  
 BRRTS#: 026000095 | FID#: 460134950 | USEPA#: WIN000510058

9-digit Code	Sample Location	Sample Date	Inorganic		Organic		Field <sup>1</sup>		Field <sup>1</sup>		Field <sup>1</sup>		Field <sup>1</sup>		Field <sup>1</sup>		Field <sup>1</sup>	
			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	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						
<b>WI Groundwater SL:</b>			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						
<b>WI Groundwater PAL:</b>			2,000	125,000	NS	NS	NS	NS	NS	NS	NS	NS						
<b>Tap Water RSL:</b>			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						
121120005/121120006 (N)	MW-701R	12/11/2020	59 U	2,200 U	4,700	110	6.26	-55.8	6.63	2340.3	10.22	58.58						
121120013	MW-705	12/10/2020	--	--	--	--	5.68	--	--	--	--	--						
121120009	MW-706	12/11/2020	59 U	32,400	41.0	100	8.40	-98.9	7.09	1030.9	10.94	0.00						
121020003	MW-707R	12/10/2020	59 U	5,400 J	3,530	240	4.04	-80.5	7.14	1709.6	12.03	21.59						
121020002	MW-708	12/10/2020	82 J	75,400	5.6	190	10.30	19.5	7.24	3602.3	12.65	0.00						
121020001	MW-709R	12/10/2020	59 U	2,200 U	3,560	200	4.31	-73.5	7.00	2137.2	10.94	0.00						
121120007	PZ-701	12/11/2020	130 J	96,000	13.4	2,740	5.27	-12.7	7.35	806.1	9.56	0.00						
121120008	PZ-702	12/11/2020	83 J	1,800 J	2.1 J	3,150	7.06	51.7	7.17	190.0	10.66	0.00						
121120004	PZ-703	12/11/2020	59 U	580 J	706	200	4.32	-36.1	7.38	552.1	10.88	0.00						
121120010	EB01	12/11/2020	59 U	440 U	1.3 J	--	--	--	--	--	--	--						
121120011	TB01	12/11/2020	--	--	--	--	--	--	--	--	--	--						
121120012	SG-703	12/10/2020	--	--	--	--	1.33	--	--	--	--	--						
<b>Total Number of Samples Analyzed:</b>			8	8	8	8	8	8	8	8	8	8						
<b>Number of Detections:</b>			3	6	8	8	8	8	8	8	8	8						
<b>Min:</b>			82	580	2.1	100	4.04	-98.9	6.63	190	9.56	0						
<b>Max:</b>			130	96,000	4,700	3,150	10.3	51.7	7.38	3,602	12.65	58.58						
<b>Groundwater SL:</b>			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						
<b>Number of Samples that Exceed Groundwater SL:</b>			0	0	0	0	0	0	0	0	0	0						
<b>WI Groundwater PAL:</b>			2000	125000	NS	NS	NS	NS	NS	NS	NS	NS						
<b>Number of Samples that Exceed WI Groundwater PAL:</b>			0	0	0	0	0	0	0	0	0	0						
<b>Tap Water RSL:</b>			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS						
<b>Number of Samples that Exceed Tap Water RSL:</b>			0	0	0	0	0	0	0	0	0	0						

[O:CMD 1/12/21, C:SGW 1/13/21, QC:AGC 1/13/21]

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NO<sub>2</sub> + NO<sub>3</sub> = nitrite plus nitrate

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PAL from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020. Results that attain or exceed the PAL are considered to be in exceedance.

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