

Wisconsin Public Service Corporation

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

January 19, 2021

Ms. Jena Sleboda Braun
Project Manager
United States Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

RE: December 2021 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. Sleboda Braun:

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 2021 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by December 26, 2021.
- Fourth quarter field-measured parameter and groundwater sampling event completed December 2, 2021.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

 Groundwater analytical results summary table from the December 2, 2021 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.
- Support USEPA's Five Year Review, as necessary.

USEPA Actions

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

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) 221-2577 or glenn.luke@wecenergygroup.com.

Sincerely,

Glenn R. Luke, PE

Principal Environmental Consultant

Glen R. July

Enclosures: Site Map

Table 1. December 2021 Groundwater Analytical Results

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

Mr. Andrew Cawrse, Ramboll (email)

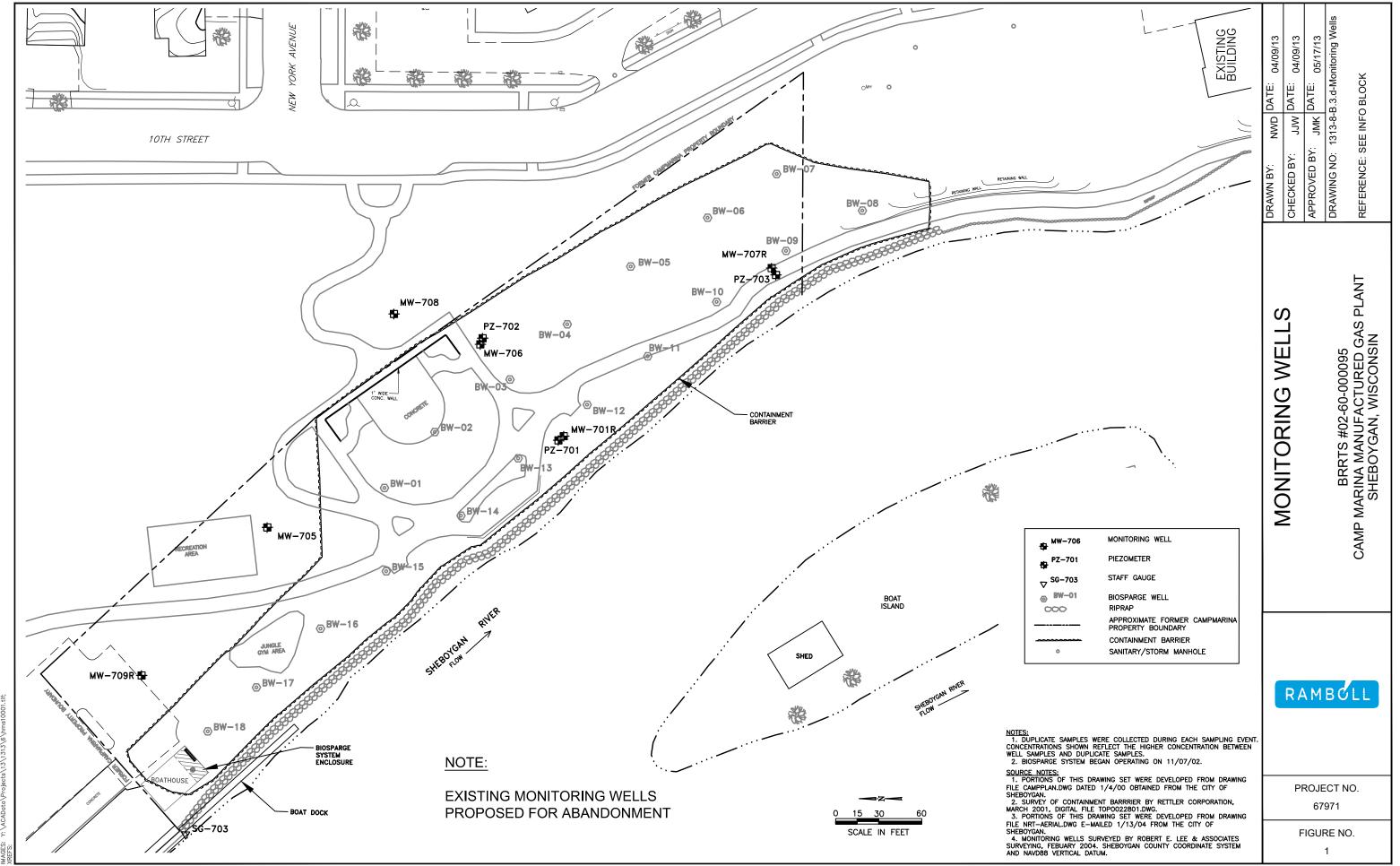


Table 1. December 2021 Groundwater Analytical Results

December 2021 Monthly Progress Report

Wisconsin Public Service Corporation

Former Manufactured Gas Plant Site - Campmarina

732 Water Street, Sheboygan, Wisconsin

BRRTS#: 0260000095 | FID#: 460134950 | USEPA#: WIN000510058

			PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	BTEX	BTEX	BTEX	BTEX
9-digit Code	Sample Location	Sample Date	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 ¹
	Re	porting 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
			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 Fla	g Result Flag	Result Flag	Result Flag	Result FI	ag Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
	Ta	p 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
		undwater 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
		ndwater PAL:	<u>NS</u>	<u>NS</u>	<u>NS</u>	<u>NS</u>	600	<u>NS</u>	0.02	0.02	<u>NS</u>	<u>NS</u>	0.02	<u>NS</u>	<u>80</u>	<u>80</u>	<u>NS</u>	<u>10</u>	NS	<u>50</u>	<u>0.5</u>	<u>140</u>	<u>160</u>	400
				T	1			1		ı		I		1	T		T		T	1		ı		
120221005/120221006 (N)	MW-701R	12/02/2021	170	143	124	2.4 U	10 J	2.6 U	3.8 U	3.8 U	4.5 U	4.3 U	5.1 U	3.4 U	5.0 L	26.8	3.0 U	<u>1,120</u>	45.7	6.7 J	<u>3,290</u>	<u>249</u>	12.8 J	145.9
120221009	MW-706	12/02/2021	241	136	22.1	139	9.4 J	3.2 U	4.6 U	4.5 U	5.4 U	5.2 U	6.2 U	4.1 U	6.2 J	39.9	3.6 U	<u>1,630</u>	43.6	6.5 J	<u>2,510</u>	<u>235</u>	<u>479</u>	283
120221003	MW-707R	12/02/2021	90.5	14.4	41.6	1.3 J	1.7 U	1.2 U	1.8 U	1.8 U	2.1 U	2.0 U	2.4 U	1.6 U	2.4 L	11.4	1.4 U	<u>471</u>	12.3	2.1 U	<u>3,100</u>	<u>2,340</u>	28.7	<u>641</u>
120221002	MW-708	12/02/2021	0.019 U	0.015 J	0.015 U	0.013 U	0.020 U	0.014 U	0.021 U	0.021 U	0.025 U	0.024 U	0.028 U	0.019 U	0.028 L	0.025 U	0.016 U	0.027 J	0.027	J 0.024 U	0.30 U	0.33 U	0.29 U	1.05 U
120221001	MW-709R	12/02/2021	0.016 U	0.012 U	0.013 U	0.011 U	0.017 U	0.012 U	0.018 U	0.018 U	0.021 U	0.020 U	0.024 U	0.016 U	0.024 L	0.021 U	0.014 U	0.021 J	0.023	J 0.020 U	0.30 U	0.33 U	0.29 U	1.05 U
120221007	PZ-701	12/02/2021	0.040 J	0.036 J	0.024 J	0.017 J	0.017 U	0.013 U	0.018 U	0.018 U	0.022 U	0.021 U	0.025 U	0.016 U	0.024 L	0.022 U	0.014 U	0.22	0.024	J 0.021 U	0.30 U	0.33 U	0.29 U	1.05 U
120221008	PZ-702	12/02/2021	0.017 U	0.013 U	0.013 U	0.012 U	0.018 U	0.013 U	0.019 U	0.019 U	0.022 U	0.021 U	0.026 U	0.017 U	0.025 L	0.023 U	0.015 U	0.051	0.025	J 0.022 U	0.30 U	0.33 U	0.29 U	1.05 U
120221004	PZ-703	12/02/2021	0.021 J	0.014 U	0.13	0.036 J	0.019 U	0.014 U	0.020 U	0.020 U	0.024 U	0.023 U	0.027 U	0.018 U	0.027 L	0.024 U	0.016 U	0.13	0.026	J 0.023 U	<u>278</u>	129	7.2	51.6
Total N	umber of Samp	oles Analyzed:	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Number o	of Detections:	5	5	5	4	2	0	0	0	0	0	0	0	1	3	0	8	3	2	4	4	4	4
		Min:	0.021	0.015	0.024	0.017	9.4	NA	NA	NA	NA	NA	NA	NA	6.2	11.4	NA	0.021	12.3	6.5	278	129	7.2	51.6
		Max:	241	143	124	139	10	NA 2.02	NA 0.035	NA 0.35	NA 120	NA 2.5	NA 25	NA	6.2	39.9	NA 0.35	1,630	45.7	6.7	3,290	2,340	479	641
Tap Water RSL: Number of Samples that Exceed Tap Water RSL:			1.1	36	530	530	1800	0.03	0.025 0	0.25	120	2.5	25	0.025	800	290	0.25	0.12	1800	120	0.46	1.5	1100	190
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	0.2	0	0	0	0	0	0	0	3	0	0	4	1	0	0
		ndwater 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 Grou	undwater PAL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	3	1	1

Sorted by sample location

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

Italic	exceeds the Tap Water RSL
Bold	exceeds the Groundwater SL
<u>Underlined</u>	attains or exceeds the WI Groundwater PAL
Pink Highlighting	Groundwater SL exceedance; results only attaining/exceeding the PAL and/or Tap Water criteria are not highlighted.
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Results & Flags:

-- = Analysis not performed

J = Estimated Concentration

U = Concentration was not detected above the reported limit NA = Not Applicable

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

EPA = Environmental Protection Agency

MCL = Maximum Contaminant Level mg/L = milligrams per liter MGP = Manufactured Gas Plant

NO2 + NO3 = nitrite plus nitrate

NS = No Screening Level/No Standard 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

USEPA = United States Environmental Protection Agency

WI = Wisconsin

Superscript Notes:

- 1. Total Xylenes, when not calculated by the lab, were calculated by Ramboll as follows:
 - a. Where no detections were observed, the sum of the reporting limits is presented.
 - b. Where detections were observed, only the detected results were added together for the total summation.
 - c. Analytes used for the calculation are Xylene-o and Xylene-m+p.

<u>Screening Levels and Standards:</u> 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, nine revisions of the RSLs have been published by EPA through November 2021. As a result of these nine revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

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

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

1313 202112_WG MPR.xlsx 1 of 2

Table 1. December 2021 Groundwater Analytical Results

December 2021 Monthly Progress Report

Wisconsin Public Service Corporation

Former Manufactured Gas Plant Site - Campmarina

732 Water Street, Sheboygan, Wisconsin

BRRTS#: 0260000095 | FID#: 460134950 | USEPA#: WIN000510058

			Inorgani	С	Inorganic	Organic	Field	Field	Field	Field	Field	Field	Field
9-digit Code	Sample Location	Sample Date	Nitrogen, NO2 + NO3, Total		Sulfate, Total	Methane	Dissolved oxygen	Groundwater, depth to	Oxidation Reduction Potential	pH, Field	Specific Conductance, Field	Temperature, Water	Turbidity, Quantitative
	Re	porting Units:	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
	To	ıp Water RSL:	NS	Т	NS	NS	NS	NS	NS	NS	NS	NS	NS
		undwater SL:	NS	_	NS	NS NS	NS	NS	NS	NS	NS	NS	NS
		indwater PAL:	2,000		125,000	NS	NS	NS	NS	NS	NS	NS	NS
									_		_	_	_
120221005/120221006 (N)	MW-701R	12/02/2021	59	U	2,200 U	8,670	0.10	5.52	-19.7	6.45	2,218	13.20	28.89
120221009	MW-706	12/02/2021	59	U	7,400	99.7		8.73					
120221003	MW-707R	12/02/2021	59	U	2,200 U	4,550	0.13	4.42	-14.6	6.76	1636.80	13.23	0.00
120221002	MW-708	12/02/2021	59	U	134,000	19.9	0.73	10.80	29.3	7.12	3637.70	14.50	506.60
120221001	MW-709R	12/02/2021	59	U	2,200 U	850	0.10	4.92	-63.0	7.06	1806.90	13.02	3.12
120221007	PZ-701	12/02/2021	140	J	72,600	41.6	0.15	5.34	-9.3	7.20	892.61	12.69	0.00
120221008	PZ-702	12/02/2021	210	J	1,500 J	17.4	0.37	6.45	23.6	7.61	192.66	11.62	0.00
120221004	PZ-703	12/02/2021	59	U	440 U	1,250	0.22	4.99	-10.0	7.26	549.16	12.20	0.00
Total N	8		8	8	7	9	7	7	7	7	7		
	Number (of Detections:	2		4	8	7	9	7	7	7	7	7
		Min:	140		1,500	17.4	0.1	4.42	-63	6.45	192.66	11.62	0
		Max:	210 NS		134,000 NS	8,670	0.73	10.8	29.3	7.61	3,638	14.5	506.6
Normalian of Commit	Tap Water RSL: Number of Samples that Exceed Tap Water RSL:					NS O	NS 0	NS O	NS O	NS 0	NS 0	NS O	NS 0
Number of Sample		undwater SL:	0 NS		0 NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Sample	Number of Samples that Exceed Groundwater SL:					0	0	0	0	0	0	0	0
Trainiber of Sumple	2000		0 125000	NS	NS	NS	NS	NS	NS	NS	NS		
Number of Samples that	t Exceed WI Gro	undwater PAL:	0		1	0	0	0	0	0	0	0	0

Sorted by sample location

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

Italic	exceeds the Tap Water RSL
Bold	exceeds the Groundwater SL
<u>Underlined</u>	attains or exceeds the WI Groundwater PAL
Pink Highlighting	Groundwater SL exceedance; results only attaining/exceeding the PAL and/or Tap Water criteria are not highlighted.
Yellow Highlighting	analyte exceedance in statistics for one or more samples

Results & Flags:

-- = Analysis not performed

J = Estimated Concentration

U = Concentration was not detected above the reported limit NA = Not Applicable

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

EPA = Environmental Protection Agency

MCL = Maximum Contaminant Level mg/L = milligrams per liter

MGP = Manufactured Gas Plant

NO2 + NO3 = nitrite plus nitrate

NS = No Screening Level/No Standard 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 USEPA = United States Environmental Protection Agency

WI = Wisconsin

[O:CMD 12/22/21, C: ECB 1/10/2022, QC: EGP 1/11/21]

Superscript Notes:

- 1. Total Xylenes, when not calculated by the lab, were calculated by Ramboll as follows:
 - a. Where no detections were observed, the sum of the reporting limits is presented. b. Where detections were observed, only the detected results were added together for the total summation.
 - c. Analytes used for the calculation are Xylene-o and Xylene-m+p.

<u>Screening Levels and Standards:</u> 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, nine revisions of the RSLs have been published by EPA through November 2021. As a result of these nine revisions, there were no updates to the RSLs necessary for the MGP-related constituents evaluated in this table.

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

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

1313 202112_WG MPR.xlsx 2 of 2