Wisconsin Public Service Corporation
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

January 15, 2025

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

RE: December 2024 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. Nguyen:

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 2024 Monthly Progress Report to United States Environmental Protection Agency (USEPA) by December 26, 2024.
- Completed fourth quarter December 2024 field-measured parameter and groundwater sampling event on December 13, 2024.

2) ANALYTICAL AND OTHER TESTING RESULTS RECEIVED

- Groundwater analytical results summary table from the December 13, 2024 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.

WDNR Actions

- Work with USEPA to determine a path for deferral of the site back to the State of Wisconsin.

4) PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED

- None

5) ACTUAL OR PLANNED RESOLUTION OF PROBLEMS OR POTENTIAL PROBLEMS

- None

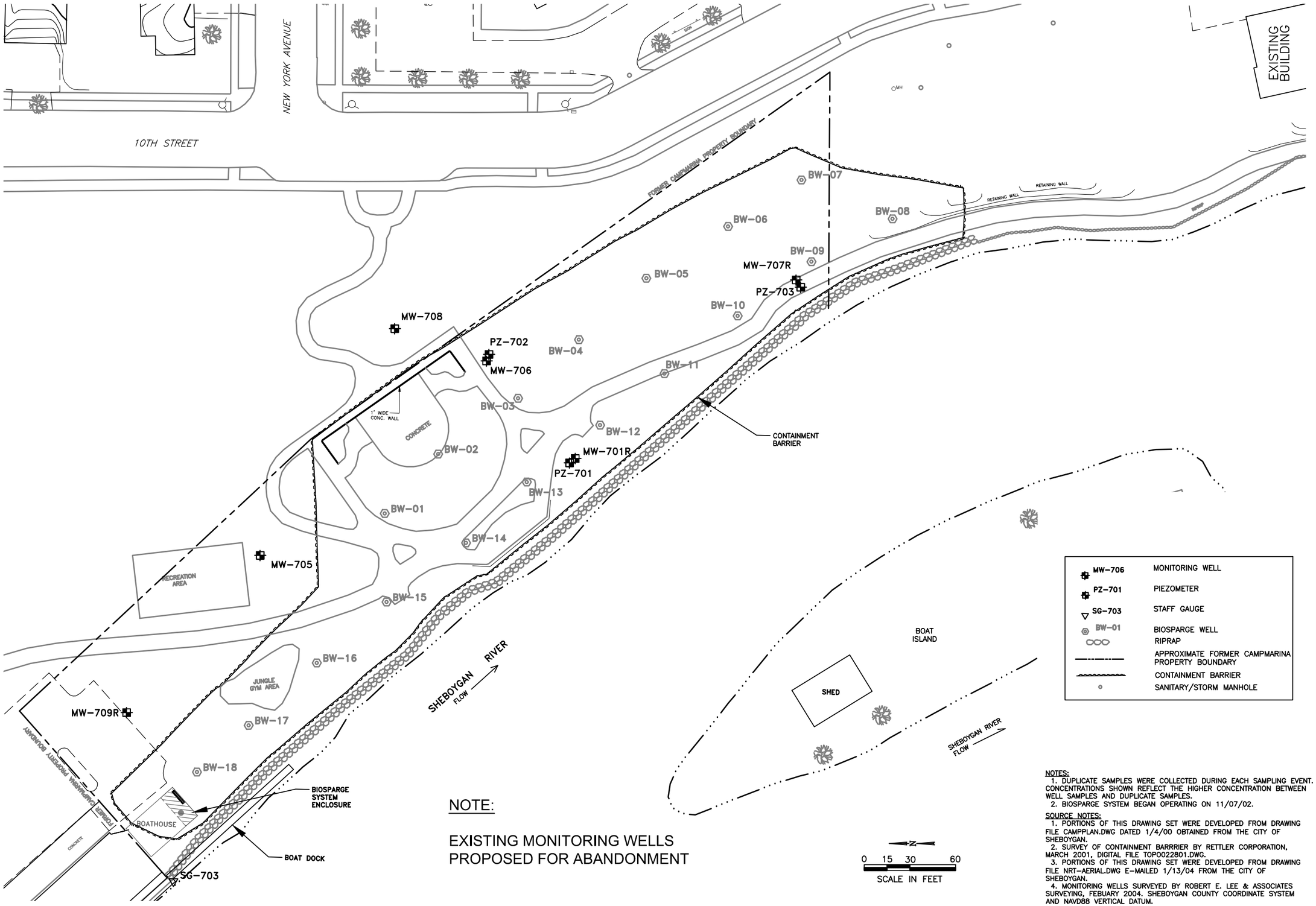
If you have any questions, please don't hesitate to contact me at (414) 221-2577 or glenn.luke@wecenergygroup.com.

Sincerely,

Glenn R. Luke, PE
Principal Engineer - Environmental

Enclosures: Figure 1. Monitoring Wells
Table 1. December 2024 Groundwater Analytical Results

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



NOTE:

EXISTING MONITORING WELLS PROPOSED FOR ABANDONMENT

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 BARRRIER BY RETTLER CORPORATION, MARCH 2001, DIGITAL FILE TOPO022801.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, FEBUARY 2004. SHEBOYGAN COUNTY COORDINATE SYSTEM AND NAVD88 VERTICAL DATUM.

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

MONITORING WELLS

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

RAMBOLL

PROJECT NO.
67971

FIGURE NO.
1

Jan 14, 2020 2:17pm PLOTTED BY: CAWRSEAG SAVED BY: ndraskovich
Y:\ACAData\Projects\13\1313\8\1313-8-B.3.d-Monitoring Wells.dwg Layout1
IMAGES: Y:\ACAData\Projects\13\1313\9\mma10001.tif;
XREFS:

Table 1. December 2024 Groundwater Analytical Results

December 2024 Monthly Progress Report
Wisconsin Public Service Corporation
Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS#: 0260000095 | FID#: 460134950 | USEPA#: WIN000510058

9-digit Code	Sample Location	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes, Total	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
			BTEX	BTEX	BTEX	BTEX	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH
		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
			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	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
		Tap Water RSL:	*0.46*	*1.5*	*1,100*	*190*	*0.0063*	*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*
		WI Groundwater SL:	**5**	**700**	**800**	**2,000**	**NS**	**NS**	**NS**	**NS**	**3,000**	**NS**	**0.2**	**0.2**	**NS**	**NS**	**0.2**	**NS**	**400**	**400**	**NS**	**100**	**3,000**	**250**
		WI Groundwater PAL:	0.5	140	160	400	NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
121324007/121324008 (N)	MW-701R	12/13/24	***3,730***	*310*	21.0 J	168	*230*	*201*	123	2.7 U	16.0	2.9 U	2.7 U	1.9 U	5.0 U	4.8 U	2.7 U	3.8 U	7.8 J	27.3	3.3 U	***1,380***	60.5	9.2 J
121324006	MW-706	12/13/24	***4,840***	*562*	***1,540***	*755*	*394*	*201*	25.3	164	10.8 J	3.1 U	2.9 U	2.1 U	5.3 U	5.1 U	2.9 U	4.1 U	6.9 J	41.5	3.5 U	***1,910***	53.8	7.0 J
121324003	MW-707R	12/13/24	***1,740***	***961***	9.1 J	*210*	*110*	1.1	34.8	0.98	2.4	0.14 U	0.13 U	0.097 U	0.25 U	0.24 U	0.14 J	0.19 U	1.4	10.5	0.16 U	*68.7*	6.9	1.4
121324002	MW-708	12/13/24	0.30 U	0.33 U	0.29 U	1.0 U	0.019 U	0.015 U	0.015 U	0.013 U	0.020 U	0.014 U	0.014 U	0.0099 J	0.025 U	0.024 U	0.013 U	0.019 U	0.028 U	0.025 U	0.016 U	0.021 U	0.027 U	0.024 U
121324001	MW-709R	12/13/24	0.30 U	0.33 U	0.29 U	1.0 U	*0.034* J	0.033 J	0.021 J	0.013 U	0.044 J	0.014 U	0.013 U	0.0096 U	0.024 U	0.023 U	0.013 U	0.019 U	0.027 U	0.025 U	0.016 U	0.065	0.027 U	0.024 U
121324009	PZ-701	12/13/24	*1.2*	0.33 U	0.29 U	1.0 U	*0.032* J	0.016 J	0.069	0.041 J	0.084	0.015 U	0.014 U	0.0098 U	0.025 U	0.024 U	0.014 U	0.019 U	0.028 U	0.025 U	0.017 U	0.076	0.027 U	0.024 U
121324005	PZ-702	12/13/24	0.30 U	0.33 U	0.29 U	1.0 U	*0.069*	0.043 J	0.016 J	0.029 J	0.019 U	0.014 U	0.013 U	0.0096 U	0.025 U	0.023 U	0.013 U	0.019 U	0.027 U	0.025 U	0.016 U	*0.39*	0.027 U	0.024 U
121324004	PZ-703	12/13/24	***553***	*192*	18.5	117	*1.8*	0.55	2.0	0.060	0.030 J	0.015 U	0.014 U	0.0098 U	0.025 U	0.024 U	0.014 U	0.019 U	0.028 U	0.26	0.017 U	*0.20*	0.16	0.024 U
		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:	5	4	4	4	7	7	7	5	6	0	0	1	0	0	1	0	3	4	0	7	4	3
		Min:	1.2	192	9.1	117	0.032	0.016	0.016	0.029	0.03	NA	NA	0.0099	NA	NA	0.14	NA	1.4	0.26	NA	0.065	0.16	1.4
		Max:	4,840	961	1,540	755	394	201	123	164	16	NA	NA	0.0099	NA	NA	0.14	NA	7.8	41.5	NA	1,910	60.5	9.2
		Tap Water RSL:	0.46	1.5	1100	190	0.0063	36	530	530	1800	0.03	0.025	0.25	120	2.5	25	0.025	800	290	0.25	0.12	1800	120
		Number of Samples that Exceed Tap Water RSL:	5	4	1	2	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
		WI Groundwater SL:	5	700	800	2000	NS	NS	NS	NS	3000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	100	3000	250
		Number of Samples that Exceed Groundwater SL:	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
		WI Groundwater PAL:	0.5	140	160	400	NS	NS	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	10	NS	50
		Number of Samples that Meet or Exceed WI Groundwater PAL:	5	4	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	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
Underlined	attains or exceeds the WI Groundwater PAL
Yellow Highlighting	analyte exceedance in statistics for one or more samples

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

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, several revisions of the RSLs have been published by EPA through November 2024. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.

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
EPA = Environmental Protection Agency
FID = facility identification number
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
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
WI = Wisconsin

Table 1. December 2024 Groundwater Analytical Results

December 2024 Monthly Progress Report
Wisconsin Public Service Corporation
Former Manufactured Gas Plant Site - Campmarina
732 Water Street, Sheboygan, Wisconsin
BRRTS#: 0260000095 | FID#: 460134950 | USEPA#: WIN000510058

			Inorganic		Inorganic		Organic		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	
		Reporting 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
		Tap Water RSL:	*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*		*NS*	
		WI Groundwater SL:	**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**		**NS**	
		WI Groundwater PAL:	2,000		125,000		NS		NS		NS		NS		NS		NS		NS		NS	
121324007/121324008 (N)	MW-701R	12/13/24	79	J	2,200	U	7,900		0.20		5.14		-150.8		6.34		2,193.0		10.77		49.8	
121324006	MW-706	12/13/24	59	U	28,600		50.0		0.10		8.58		-197.2		6.93		1008.4		12.10		5.23	
121324003	MW-707R	12/13/24	59	U	3,100	J	6,510		0.18		4.53		-174.3		7.07		1644.5		9.93		0.81	
121324002	MW-708	12/13/24	59	U	97,100		42.0		0.26		10.67		-6.8		6.97		3500.6		11.82		0.33	
121324001	MW-709R	12/13/24	59	U	13,300		1,070		0.24		4.60		-168.0		6.86		1711.3		6.99		1.75	
121324009	PZ-701	12/13/24	59	U	49,200		1,190		0.23		5.54		-195.4		7.13		962.9		11.55		0.00	
121324005	PZ-702	12/13/24	91	J	2,600	J	0.58	U	0.98		6.46		7.0		7.96		186.7		10.86		0.00	
121324004	PZ-703	12/13/24	59	U	5,900	J	1,400		0.27		5.57		-198.5		7.57		572.4		9.84		0.59	

Total Number of Samples Analyzed:	8	8	8	8	8	8	8	8	8	8
Number of Detections:	2	7	7	8	8	8	8	8	8	8
Min:	79	2,600	42	0.1	4.53	-198.5	6.34	186.7	6.99	0
Max:	91	97,100	7,900	0.98	10.67	7	7.96	3,501	12.1	49.8
Tap Water RSL:	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed Tap Water RSL:	0	0	0	0	0	0	0	0	0	0
WI Groundwater SL:	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Exceed Groundwater SL:	0	0	0	0	0	0	0	0	0	0
WI Groundwater PAL:	2000	125000	NS	NS	NS	NS	NS	NS	NS	NS
Number of Samples that Meet or Exceed WI Groundwater PAL:	0	0	0	0	0	0	0	0	0	0

[O: GKJ 1/6/2024, C: EB 1/6/25]

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
Underlined	attains or exceeds the WI Groundwater PAL
Yellow Highlighting	analyte exceedance in statistics for one or more samples

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

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, several revisions of the RSLs have been published by EPA through November 2024. The RSLs necessary for the MGP-related constituents evaluated in this table are up to date with the most recent revision.

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
EPA = Environmental Protection Agency
FID = facility identification number
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
RSL = Regional Screening Level
s.u. = standard units
SL = Screening Level
USEPA = United States Environmental Protection Agency
WI = Wisconsin