DISINFECTION BY-PRODUCTS RESULTS (2022)

Water Utility Towers, Reservoirs, and Pump Stations

DISINFECTION BY-PRODUCTS	MAXIMUM	UNITS	#106	#106	#106	#106	#106	#120	#120	#228	#228	#228	#228	#228
			1/19	4/20	7/19	10/18	7/18	1/18	7/18	1/19	4/20	7/19	10/18	7/18
Bromodichloromethane	0.9	ppb	0.47	0.47	0.49	0.82	0.81	ND	0.31	0.48	0.43	0.92	0.87	0.85
Bromoform	1.5	ppb	0.83	0.67	0.53	1.5	1.3	ND	ND	ND	ND	0.33	0.29	0.23
Chloroform	0.7	ppb	0.28	0.23	0.49	0.40	0.39	ND	0.33	0.41	0.34	0.66	0.70	0.63
Dibromochloromethane	1.7	ppb	0.84	0.89	0.65	1.6	1.7	ND	0.35	0.46	0.34	0.90	0.76	0.83
Total Trihalomethanes (TTHM)	**4.3**	**ppb**	**2.4**	**2.3**	**2.2**	**4.3**	**4.2**	**ND**	**1.0**	**1.4**	**1.1**	**2.8**	**2.6**	**2.5**
Dibromoacetic acid	0.6	ppb	0.43	0.60	0.59	0.20	NS	NS	NS	0.11	0.18	0.41	0.20	NS
Dichloroacetic acid	0.6	ppb	0.35	0.22	0.24	0.22	NS	NS	NS	0.48	0.36	0.55	0.38	NS
Monobromoacetic acid	0.3	ppb	ND	ND	0.31	ND	NS	NS	NS	ND	ND	0.21	ND	NS
Monochloroacetic acid	ND	ppb	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	NS
Trichloroacetic acid	ND	ppb	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	NS
Total Haloacetic Acid (HAA5)	**1.2**	**ppb**	**0.8**	**0.8**	**1.1**	**0.4**	**NS**	**NS**	**NS**	**0.6**	**0.5**	**1.2**	**0.6**	**NS**

DISINFECTION BY-PRODUCTS	MAXIMUM	UNITS	Reservoir #229				Isthmus Engineering & Manufacturing			
			1/19	4/20	7/19	10/18	1/19	4/20	7/19	10/18
Bromodichloromethane	4.1	ppb	2.4	2.3	4.1	2.8	0.59	0.46	1.9	0.91
Bromoform	1.2	ppb	ND	0.57	1.2	1.1	ND	ND	0.25	ND
Chloroform	2.6	ppb	2.1	1.7	2.6	2.0	0.82	0.67	2.4	1.3
Dibromochloromethane	4.3	ppb	2.0	2.3	4.3	3.1	0.35	0.27	1.2	0.58
Total Trihalomethanes (TTHM)	**12**	**ppb**	**7.1**	**6.9**	**12**	**9.0**	**1.8**	**1.4**	**5.8**	**2.8**
Dibromoacetic acid	0.9	ppb	0.59	0.82	0.93	0.36	ND	0.13	0.31	0.20
Dichloroacetic acid	1.0	ppb	0.96	0.76	0.70	0.60	0.39	0.38	0.50	0.32
Monobromoacetic acid	0.2	ppb	0.24	0.23	0.23	ND	ND	ND	0.16	ND
Monochloroacetic acid	ND	ppb	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroacetic acid	0.5	ppb	0.27	0.36	0.45	0.28	ND	ND	ND	ND
Total Haloacetic Acid (HAA5)	**2.3**	**ppb**	**2.1**	**2.2**	**2.3**	**1.2**	**0.4**	**0.5**	**1.0**	**0.5**

ND = not detected
NS = not sampled
ppb = parts per billion, or micrograms/liter (ug/L)

The Disinfection By-Product Rule requires that the sum of four trihalomethanes [Total Trihalomethanes, TTHM] not exceed 80 ppb, and that the sum of five haloacetic acids [Total Haloacetic Acids, HAA5] not exceed 60 ppb.

Wisconsin DNR recognizes Reservoir #229 and Isthmus Engineering & Manufacturing as Madison's two monitoring locations for compliance with the Disinfection By-Product Rule.