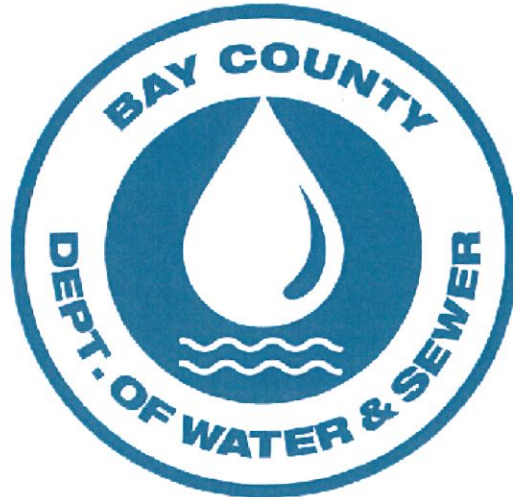


Bay Area WTP

Monthly Operations Report



July, 2025

Water Systems Serial Number: 0465



Carl J. Overly

Water Plant Superintendent
Title

F-1, S-3, D-3
Classification



Mike Wagar

Operations Supervisor
Title

F-1, S-4
Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
 WSSN: 0465

July, 2025
 Month, Year

F-1
 Water Plant Classification

Bay
 County

Carl J. Overly
 Operator-in-charge

F-1, S-3, D-3
 Certification of Operator-in-charge

20001
 Operator Identification Number for Operator-in-charge

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>10.7</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>16.57</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>31.11</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,510</u>	Gallons	Estimated Supply:	<u>39.7</u>	days
Caustic Soda on hand:	<u>4,093</u>	Gallons	Estimated Supply:	<u>280.3</u>	days
Corrosion Inhibitor on hand:	<u>954</u>	Gallons	Estimated Supply:	<u>32.2</u>	days
Hydrofluosilicic Acid on hand:	<u>1,012</u>	Gallons	Estimated Supply:	<u>44.5</u>	days
Aluminum Chlorohydrate on hand:	<u>178</u>	Gallons	Estimated Supply:	<u>32.2</u>	days
Sulfuric Acid on hand:	<u>180</u>	Gallons	Estimated Supply:	<u>89.8</u>	days
Sodium Bisulfite on hand:	<u>687</u>	Gallons	Estimated Supply:	<u>236.8</u>	days
Citric Acid on hand:	<u>601</u>	Gallons	Estimated Supply:	<u>48.0</u>	days
Cost of All Chemicals per Million Gallons:	<u>85.38</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>933.97</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>1.97</u>	Mcf

Remarks

Number of periods of filter confluence turbidity samples > 0.3 NTU	<u>0</u>
Percent of membrane period confluence samples > 0.3 NTU:	<u>0.00%</u>
Was continuous (every 15 minutes) filter monitoring equipment off-line during the month? If yes, indicate date(s), duration, and individual filter grab sampling frequency on a separate sheet.	<u>No</u>
Did POE disinfectant residual fall below 0.2 ppm during the month? If yes, indicate date(s) and duration on a separate sheet.	<u>No</u>
Was minimum C*T credit achieved for the entire month? If no, indicate on a separate sheet the date(s) not achieved.	<u>Yes</u>
Was continuous POE chlorine residual monitoring equipment off-line during the month? If yes, date(s) and duration will be indicated on the rule page.	<u>No</u>

Notes

On 7/8 at around 9:34am the pressure transmitter controlling our mem feed process experienced a loss of pressure. This event caused SCADA to increase the raw water pump speed setpoint to compensate for the loss in pressure. This led to the inservice skids, 4, 6, and 8, to experience a high pressure and flow event. Skids 6 and 8 have newer modules and were able to respond quickly to the event and didn't experience elevated TMPs or Flux. Skid 4 on the other hand, couldn't respond as quickly and saw elevated TMP at 21.7psi and Flux at 38 GFD. This event wasn't capture by the MOR because it all happened between the data polling events of the MOR. In reponse to the event we evaluated Skid 4 by doing an AHT and monitoing operational parameters and IFE. No negative issues were discovered.

Phase 4 of module replacements has started and saw Skid 4 get replaced. Skid 7 is up next in August.

Bay Area WTP Monthly Operating Report

Flows									
Date	Raw Water (MG)			Clarified (MG)	Sludge (MG)	Treated (MG)	Finished Water Pumped (MG)		
	N. Euclid	Lauria Road	Total	Total	Total	Total	N. Euclid	Lauria Road	Total
	FIT-1000-1	FIT-1000-2	Calculated	FIT-5520-1	FIT-5180	FIT-4000-1	FIT-4040-1	FIT-4040-2	Calculated
7/1/2025	4.53	4.26	8.79	0.25	0.10	5.11	2.56	2.08	4.65
7/2/2025	5.14	2.69	7.83	0.28	0.08	9.99	4.97	4.01	8.98
7/3/2025	5.52	5.48	11.01	0.28	0.09	10.03	5.11	4.10	9.21
7/4/2025	5.23	5.79	11.02	0.28	0.08	9.87	4.88	3.93	8.80
7/5/2025	5.34	3.96	9.30	0.23	0.08	8.93	4.55	3.64	8.20
7/6/2025	4.96	3.72	8.69	0.26	0.08	9.07	4.57	3.66	8.22
7/7/2025	3.65	4.23	7.87	0.21	0.08	7.88	4.01	3.18	7.19
7/8/2025	3.46	4.39	7.85	0.23	0.09	9.03	4.46	3.56	8.02
7/9/2025	2.98	5.13	8.11	0.27	0.08	9.13	4.63	3.75	8.38
7/10/2025	2.81	5.82	8.63	0.25	0.09	8.63	4.36	3.54	7.90
7/11/2025	3.03	6.37	9.40	0.23	0.08	8.46	4.36	3.51	7.87
7/12/2025	2.95	6.59	9.54	0.23	0.08	7.99	3.94	3.28	7.22
7/13/2025	2.77	4.76	7.52	0.26	0.08	8.66	4.33	3.62	7.94
7/14/2025	2.65	6.31	8.96	0.25	0.08	9.60	4.80	4.01	8.81
7/15/2025	2.58	7.58	10.17	0.25	0.08	9.64	4.83	4.04	8.87
7/16/2025	2.69	7.27	9.95	0.26	0.08	9.67	4.84	4.00	8.84
7/17/2025	2.74	6.42	9.17	0.24	0.08	8.44	4.28	3.40	7.69
7/18/2025	3.70	5.32	9.02	0.23	0.08	8.90	4.52	3.64	8.16
7/19/2025	3.45	4.39	7.84	0.20	0.09	8.34	4.24	3.38	7.62
7/20/2025	3.39	4.39	7.77	0.23	0.08	8.63	4.42	3.53	7.95
7/21/2025	4.28	5.68	9.97	0.26	0.08	9.76	4.95	4.01	8.96
7/22/2025	4.76	5.95	10.71	0.26	0.10	9.89	5.01	4.07	9.08
7/23/2025	4.79	5.05	9.84	0.28	0.08	10.66	5.47	4.44	9.91
7/24/2025	4.87	5.21	10.07	0.28	0.08	10.21	5.18	4.20	9.38
7/25/2025	5.03	4.86	9.89	0.28	0.08	9.90	4.97	4.02	8.99
7/26/2025	5.41	4.01	9.42	0.28	0.08	9.02	4.60	3.71	8.31
7/27/2025	5.12	3.53	8.65	0.27	0.08	8.80	4.45	3.59	8.04
7/28/2025	5.06	4.71	9.77	0.20	0.07	10.31	5.25	4.28	9.53
7/29/2025	4.68	5.84	10.53	0.20	0.07	8.94	4.66	3.76	8.42
7/30/2025	4.72	5.01	9.72	0.24	0.09	9.93	4.94	4.00	8.94
7/31/2025	4.72	4.32	9.05	0.24	0.09	8.57	4.32	3.46	7.79
Total	127.02	159.04	286.06	7.71	2.56	281.96	142.46	115.41	257.87
Avg	4.10	5.13	9.23	0.25	0.08	9.10	4.60	3.72	8.32
Min	2.58	2.69	7.52	0.20	0.07	5.11	2.56	2.08	4.65
Max	5.52	7.58	11.02	0.28	0.10	10.66	5.47	4.44	9.91

Facility Water Efficiency		
Waste (MG)	Treated (MG)	T/W (G)
10.87	281.96	25.9

Raw Water Analysis								
Date	Temp	pH	Turbidity		F	Free Cl	Bacti	
	Average	Average	Average	Maximum	Grab	Average	Positive/Negative	
	°C		NTU		mg/L	mg/L	Total Coliform	E. coli
	TIT-1000	AIT-1000-2	AIT-1000-1		Lab - Mem Feed	AIT-1035-2	Lab	
7/1/2025	18.6	8.08	0.41	0.51	0.09	0.57	Negative	Negative
7/2/2025	18.0	8.07	0.38	0.62	0.09	0.60	Negative	Negative
7/3/2025	17.2	8.11	0.32	0.40	0.09	0.56	Negative	Negative
7/4/2025	16.3	8.10	0.31	0.43	0.09	0.58	Negative	Negative
7/5/2025	16.9	8.12	0.45	0.56	0.08	0.51	Negative	Negative
7/6/2025	17.8	8.26	0.46	0.60	0.09	0.47	Negative	Negative
7/7/2025	15.7	8.25	0.36	0.47	0.08	0.63	Negative	Negative
7/8/2025	15.4	8.19	0.95	1.77	0.08	0.37	Negative	Negative
7/9/2025	16.7	8.06	0.69	3.24	0.09	0.42	Negative	Negative
7/10/2025	16.7	7.98	0.45	0.61	0.08	0.62	Negative	Negative
7/11/2025	16.5	8.06	0.46	0.61	0.08	0.63	Negative	Negative
7/12/2025	17.2	8.10	0.42	0.52	0.08	0.61	Negative	Negative
7/13/2025	17.5	8.11	0.33	0.47	0.08	0.57	Negative	Negative
7/14/2025	17.4	8.14	0.37	0.56	0.08	0.64	Negative	Negative
7/15/2025	17.2	8.16	0.43	0.62	0.08	0.60	Negative	Negative
7/16/2025	16.8	8.16	0.54	0.70	0.08	0.46	Negative	Negative
7/17/2025	16.4	8.06	0.47	0.62	0.09	0.48	Negative	Negative
7/18/2025	15.0	8.09	0.61	1.10	0.11	0.40	Negative	Negative
7/19/2025	16.3	8.20	0.77	0.91	0.08	0.25	Negative	Negative
7/20/2025	17.4	8.25	0.59	0.73	0.09	0.20	Negative	Negative
7/21/2025	17.5	8.22	0.54	0.64	0.09	0.20	Negative	Negative
7/22/2025	18.1	8.26	0.57	1.55	0.09	0.17	Negative	Negative
7/23/2025	19.0	8.23	0.60	0.80	0.09	0.25	Negative	Negative
7/24/2025	19.5	8.21	0.58	2.63	0.09	0.26	Negative	Negative
7/25/2025	19.8	8.21	0.59	0.72	0.09	0.23	Negative	Negative
7/26/2025	19.7	8.15	0.54	0.76	0.08	0.27	Negative	Negative
7/27/2025	19.8	8.22	0.49	0.58	0.09	0.22	Negative	Negative
7/28/2025	19.7	8.15	0.43	0.50	0.09	0.32	Negative	Negative
7/29/2025	18.8	8.11	0.43	0.53	0.08	0.34	Negative	Negative
7/30/2025	17.8	8.14	0.48	0.64	0.09	0.28	Negative	Negative
7/31/2025	17.8	8.22	0.65	0.97	0.11	0.20	Negative	Negative
Avg	17.6	8.15	0.51	0.85	0.09	0.42	NA	NA
Min	15.0	7.98	0.31	0.40	0.08	0.17	NA	NA
Max	19.8	8.26	0.95	3.24	0.11	0.64	NA	NA

F Ratio, Raw/Tap: 12.3

Finished Water Analysis																			
Date	Temp	pH	Phosphate	Fluoride		Free Cl ₂	Hardness	Alkalinity (as CaCO ₃)		Chloride	Sulfate	Calcium (as CaCO ₃)	Dissolved Oxygen	Conductivity	Langelier Saturation Index	Chloride:Sulfate Mass Ratio	Larson-Skold Index	Bacti	
	Average	Average	Average	Tap	Dist	Average	Grab	Carbonate	Bicarbonate	Grab	Grab	Grab	Grab	Grab	Index	Ratio	Index	Positive/Negative	
	°C		mg/L	mg/L		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	uS/cm				Total Coliform	E. coli
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab	Lab		Lab	Lab	Lab	Lab	Lab	Calculated			Lab	
7/1/2025	18.4	7.38	3.39	0.72		1.24	100.00	0	83	13	11	90	10.6	225	-0.74	1.18	0.44		
7/2/2025	17.4	7.13	3.42	0.72		1.19	102.00	0	84	11	11	76	11.1	258	-1.09	1.04	0.40	Negative	Negative
7/3/2025	16.6	7.16	3.38	0.72		1.23	102.00	0	74	13	10	74	10.8	253	-1.14	1.25	0.47	Negative	Negative
7/4/2025	15.8	7.21	3.38	0.72		1.24	100.00	0	70	12	10	74	11.6	246	-1.13	1.20	0.48	Negative	Negative
7/5/2025	15.8	7.12	3.39	0.71		1.27	100.00	0	70	17	10	78	11.5	247	-1.21	1.70	0.60	Negative	Negative
7/6/2025	16.4	7.08	3.39	0.72		1.20	100.00	0	70	14	10	78	10.9	249	-1.23	1.35	0.52	Negative	Negative
7/7/2025	16.1	7.40	3.39	0.71	0.69	1.23	100.00	0	70	12	9	74	11.6	246	-0.94	1.33	0.46	Negative	Negative
7/8/2025	15.0	7.69	3.38	0.70		1.22	116.00	0	77	10	9	72	11.9	244	-0.64	1.12	0.38	Negative	Negative
7/9/2025	15.1	7.70	3.36	0.70		1.20	100.00	0	76	10	11	104	10.1	245	-0.48	0.88	0.41	Negative	Negative
7/10/2025	15.5	7.68	3.35	0.71		1.25	112.00	0	77	11	10	76	11.7	244	-0.62	1.06	0.40	Negative	Negative
7/11/2025	15.3	7.66	3.34	0.71		1.31	114.00	0	77	10	10	74	11.3	244	-0.65	1.02	0.40	Negative	Negative
7/12/2025	15.7	7.66	3.35	0.71		1.31	114.00	0	77	11	9	74	11.1	244	-0.65	1.18	0.39	Negative	Negative
7/13/2025	16.0	7.66	3.35	0.71		1.29	112.00	0	77	10	8	72	11.1	244	-0.65	1.28	0.36	Negative	Negative
7/14/2025	17.0	7.67	3.35	0.71	0.72	1.30	116.00	0	76	10	11	74	11.0	243	-0.61	0.93	0.42	Negative	Negative
7/15/2025	17.2	7.69	3.34	0.71		1.30	110.00	0	76	10	8	74	11.0	242	-0.59	1.30	0.37	Negative	Negative
7/16/2025	16.9	7.69	3.35	0.70		1.29	102.00	0	78	10	10	76	11.3	241	-0.57	0.99	0.38	Negative	Negative
7/17/2025	16.5	7.71	3.36	0.73		1.28	100.00	0	70	11	9	76	11.4	241	-0.61	1.22	0.44	Negative	Negative
7/18/2025	15.7	7.71	3.37	0.73		1.31	100.00	0	70	12	9	78	12.8	243	-0.62	1.33	0.46	Negative	Negative
7/19/2025	15.5	7.72	3.37	0.72		1.29	98.00	0	78	13	7	80	12.1	245	-0.55	1.79	0.39	Negative	Negative
7/20/2025	16.4	7.74	3.37	0.70		1.27	100.00	0	69	13	10	78	11.1	250	-0.57	1.30	0.51	Negative	Negative
7/21/2025	17.1	7.76	3.38	0.70	0.72	1.30	100.00	0	71	10	13	76	11.0	249	-0.54	0.76	0.48	Negative	Negative
7/22/2025	17.4	7.75	3.38	0.69		1.28	102.00	0	71	13	10	80	10.7	252	-0.52	1.25	0.49	Negative	Negative
7/23/2025	18.3	7.76	3.38	0.67		1.29	110.00	0	78	11	10	88	10.8	255	-0.41	1.11	0.41	Negative	Negative
7/24/2025	19.2	7.74	3.38	0.66		1.32	118.00	0	79	12	11	72	10.5	257	-0.49	1.10	0.44	Negative	Negative
7/25/2025	19.4	7.72	3.38	0.68		1.29	116.00	0	79	12	10	74	10.6	256	-0.50	1.21	0.43	Negative	Negative
7/26/2025	19.5	7.70	3.38	0.69		1.31	118.00	0	79	12	10	70	10.4	254	-0.54	1.21	0.43	Negative	Negative
7/27/2025	19.6	7.68	3.38	0.69		1.29	114.00	0	79	12	10	72	10.4	253	-0.54	1.21	0.43	Negative	Negative
7/28/2025	19.6	7.68	3.38	0.68	0.68	1.33	116.00	0	79	12	10	74	10.6	230	-0.52	1.16	0.42	Negative	Negative
7/29/2025	19.0	7.66	3.38	0.68		1.32	112.00	0	79	12	10	74	11.0	229	-0.55	1.23	0.43	Negative	Negative
7/30/2025	18.1	7.64	3.38	0.69		1.30	114.00	0	78	11	10	78	11.3	226	-0.57	1.08	0.40	Negative	Negative
7/31/2025	17.4	7.64	3.38	0.72		1.29	100.00	0	72	13	9	76	11.4	226	-0.64	1.39	0.46	Negative	Negative
Avg	17.1	7.59	3.37	0.70	0.70	1.28	107.03	0	76	12	10	77	11.1	244	-0.68	1.20	0.44	NA	NA
Min	15.0	7.08	3.34	0.66	0.68	1.19	98.00	0	69	10	7	70	10.1	225	-1.23	0.76	0.36	NA	NA
Max	19.6	7.76	3.42	0.73	0.72	1.33	118.00	0	84	17	13	104	12.8	258	-0.41	1.79	0.60	NA	NA

Plant Tap Disinfection Byproduct Monitoring - Results in ppb			
Date	Total Trihalomethanes - TTHM		
	Result	LRAA	OEL
7/8/25	29	26	28

Turbidity										
Date	Raw Water		Clarified Water	Membrane Feed Water	Combined Membrane Filtrate					Finished Water
	Avg	Max	Avg	Avg	Avg	Max	# Samples	# > 0.3	% Exceeded	Avg
	NTU									
	AIT-1000-1		AIT-5030-1	AIT-1035-3	AIT-4000-1					Calculated
7/1/2025	0.41	0.51	6.69	0.49	0.028	0.030	96	0	0.0	0.025
7/2/2025	0.38	0.62	7.74	0.42	0.028	0.028	96	0	0.0	0.024
7/3/2025	0.32	0.40	8.89	0.36	0.027	0.028	96	0	0.0	0.024
7/4/2025	0.31	0.43	24.40	0.31	0.026	0.027	96	0	0.0	0.024
7/5/2025	0.45	0.56	13.81	0.35	0.026	0.027	96	0	0.0	0.023
7/6/2025	0.46	0.60	8.49	0.41	0.027	0.028	96	0	0.0	0.024
7/7/2025	0.36	0.47	7.00	0.40	0.026	0.027	96	0	0.0	0.024
7/8/2025	0.95	1.77	5.92	0.54	0.026	0.027	96	0	0.0	0.023
7/9/2025	0.69	3.24	8.19	0.71	0.026	0.028	96	0	0.0	0.024
7/10/2025	0.45	0.61	5.03	0.53	0.026	0.028	96	0	0.0	0.024
7/11/2025	0.46	0.61	4.06	0.45	0.026	0.027	96	0	0.0	0.023
7/12/2025	0.42	0.52	6.11	0.43	0.026	0.028	96	0	0.0	0.023
7/13/2025	0.33	0.47	4.58	0.38	0.026	0.027	96	0	0.0	0.023
7/14/2025	0.37	0.56	4.35	0.34	0.027	0.028	96	0	0.0	0.023
7/15/2025	0.43	0.62	4.28	0.35	0.027	0.027	96	0	0.0	0.023
7/16/2025	0.54	0.70	8.58	0.42	0.026	0.028	96	0	0.0	0.023
7/17/2025	0.47	0.62	5.76	0.46	0.026	0.027	96	0	0.0	0.023
7/18/2025	0.61	1.10	5.36	0.45	0.025	0.026	96	0	0.0	0.023
7/19/2025	0.77	0.91	7.35	0.60	0.026	0.028	96	0	0.0	0.023
7/20/2025	0.59	0.73	13.00	0.60	0.028	0.028	96	0	0.0	0.024
7/21/2025	0.54	0.64	30.69	0.52	0.027	0.029	96	0	0.0	0.024
7/22/2025	0.57	1.55	11.51	0.50	0.028	0.029	96	0	0.0	0.024
7/23/2025	0.60	0.80	22.80	0.54	0.029	0.030	96	0	0.0	0.024
7/24/2025	0.58	2.63	2.85	0.51	0.029	0.031	96	0	0.0	0.024
7/25/2025	0.59	0.72	2.86	0.51	0.030	0.031	96	0	0.0	0.025
7/26/2025	0.54	0.76	2.61	0.48	0.029	0.030	96	0	0.0	0.024
7/27/2025	0.49	0.58	3.39	0.47	0.031	0.032	96	0	0.0	0.025
7/28/2025	0.43	0.50	3.26	0.42	0.030	0.032	96	0	0.0	0.025
7/29/2025	0.43	0.53	5.16	0.41	0.028	0.030	96	0	0.0	0.024
7/30/2025	0.48	0.64	2.96	0.40	0.027	0.029	96	0	0.0	0.024
7/31/2025	0.65	0.97	3.16	0.46	0.027	0.028	96	0	0.0	0.024
Avg	0.51	0.85	8.09	0.46	0.027	0.028	96	0	0.0	0.024
Min	0.31	0.40	2.61	0.31	0.025	0.026	96	0	0.0	0.023
Max	0.95	3.24	30.69	0.71	0.031	0.032	96	0	0.0	0.025

Note: % Exceeded are 4 hr compliance periods where the average of samples are greater than 0.3 NTU

Date	Membrane LRV/Integrity/Max Turbidity																									
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8				
	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity		
	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max		
Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU
7/1/2025	5.57	PASS	0.027	4.98	PASS	0.027	5.39	PASS	0.029	3.93	PASS	0.026	5.44	PASS	0.027	5.31	PASS	0.026	4.21	PASS	0.026	5.41	PASS	0.026		
7/2/2025	5.60	PASS	0.026	4.99	PASS	0.026	5.40	PASS	0.027	3.89	PASS	0.073	5.54	PASS	0.026	5.31	PASS	0.026	4.19	PASS	0.025	5.42	PASS	0.025		
7/3/2025	5.58	PASS	0.025	5.00	PASS	0.025	5.40	PASS	0.026	3.90	PASS	0.025	5.61	PASS	0.024	5.28	PASS	0.026	4.18	PASS	0.024	5.41	PASS	0.025		
7/4/2025	5.59	PASS	0.025	5.01	PASS	0.025	5.41	PASS	0.025	3.90	PASS	0.025	5.57	PASS	0.024	5.38	PASS	0.025	4.28	PASS	0.024	5.46	PASS	0.024		
7/5/2025	5.57	PASS	0.025	5.02	PASS	0.025	5.46	PASS	0.025	3.86	PASS	0.027	5.56	PASS	0.024	5.37	PASS	0.024	4.25	PASS	0.024	5.47	PASS	0.024		
7/6/2025	5.64	PASS	0.025	5.04	PASS	0.026	5.44	PASS	0.025	3.83	PASS	0.030	5.60	PASS	0.024	5.25	PASS	0.025	4.24	PASS	0.024	5.43	PASS	0.024		
7/7/2025	5.61	PASS	0.025	5.03	PASS	0.026	5.35	PASS	0.025	3.83	PASS	0.025	5.58	PASS	0.024	4.94	PASS	0.030	4.24	PASS	0.024	5.42	PASS	0.024		
7/8/2025	5.57	PASS	0.025	5.01	PASS	0.026	5.35	PASS	0.025	3.83	PASS	0.025	5.58	PASS	0.026	4.93	PASS	0.025	4.25	PASS	0.024	5.43	PASS	0.024		
7/9/2025	5.56	PASS	0.025	5.00	PASS	0.029	5.38	PASS	0.026	3.81	PASS	0.026	5.54	PASS	0.025	5.35	PASS	0.025	4.23	PASS	0.025	5.43	PASS	0.024		
7/10/2025	5.56	PASS	0.025	5.02	PASS	0.028	5.34	PASS	0.026	3.82	PASS	0.025	5.53	PASS	0.024	5.37	PASS	0.025	4.23	PASS	0.024	5.42	PASS	0.024		
7/11/2025	5.62	PASS	0.025	5.02	PASS	0.028	5.45	PASS	0.025	3.84	PASS	0.025	5.64	PASS	0.024	4.99	PASS	0.024	4.26	PASS	0.024	5.46	PASS	0.024		
7/12/2025	5.62	PASS	0.025	5.02	PASS	0.027	5.41	PASS	0.024	3.86	PASS	0.025	5.65	PASS	0.024	4.97	PASS	0.024	4.25	PASS	0.024	5.49	PASS	0.024		
7/13/2025	5.63	PASS	0.025	5.02	PASS	0.027	5.39	PASS	0.024	3.85	PASS	0.025	5.58	PASS	0.024	4.95	PASS	0.034	4.25	PASS	0.024	5.42	PASS	0.024		
7/14/2025	5.61	PASS	0.024	5.01	PASS	0.027	5.39	PASS	0.025	3.86	PASS	0.025	5.57	PASS	0.025	5.06	PASS	0.024	4.24	PASS	0.023	5.42	PASS	0.024		
7/15/2025	5.61	PASS	0.024	5.02	PASS	0.027	5.37	PASS	0.024	5.58	PASS	0.023	5.58	PASS	0.023	5.37	PASS	0.024	4.24	PASS	0.024	5.48	PASS	0.024		
7/16/2025	5.61	PASS	0.024	5.03	PASS	0.027	5.38	PASS	0.025	5.55	PASS	0.024	5.03	PASS	0.025	4.21	PASS	0.024	5.42	PASS	0.024	5.42	PASS	0.024		
7/17/2025	5.62	PASS	0.025	5.01	PASS	0.027	5.44	PASS	0.024	5.58	PASS	0.024	5.01	PASS	0.025	4.21	PASS	0.024	5.42	PASS	0.024	5.43	PASS	0.024		
7/18/2025	5.63	PASS	0.025	5.03	PASS	0.027	5.41	PASS	0.025	5.55	PASS	0.023	5.28	PASS	0.024	4.22	PASS	0.024	5.46	PASS	0.024	5.46	PASS	0.024		
7/19/2025	5.57	PASS	0.025	5.00	PASS	0.028	5.32	PASS	0.025	5.53	PASS	0.024	5.37	PASS	0.025	4.22	PASS	0.024	5.42	PASS	0.024	5.45	PASS	0.024		
7/20/2025	5.56	PASS	0.025	4.99	PASS	0.028	5.32	PASS	0.026	5.53	PASS	0.024	5.36	PASS	0.025	4.20	PASS	0.024	5.40	PASS	0.024	5.40	PASS	0.025		
7/21/2025	5.51	PASS	0.025	4.98	PASS	0.028	5.26	PASS	0.026	5.50	PASS	0.025	5.35	PASS	0.025	4.16	PASS	0.024	5.36	PASS	0.024	5.36	PASS	0.025		
7/22/2025	5.65	PASS	0.026	4.92	PASS	0.029	5.39	PASS	0.027	5.54	PASS	0.025	4.95	PASS	0.026	4.15	PASS	0.025	5.38	PASS	0.025	5.38	PASS	0.025		
7/23/2025	5.50	PASS	0.026	4.89	PASS	0.029	5.27	PASS	0.028	5.53	PASS	0.026	4.92	PASS	0.026	4.16	PASS	0.025	5.32	PASS	0.025	5.32	PASS	0.026		
7/24/2025	5.55	PASS	0.026	4.95	PASS	0.029	5.30	PASS	0.028	5.03	0	0.025	5.50	PASS	0.026	5.33	PASS	0.026	4.15	PASS	0.025	5.35	PASS	0.025		
7/25/2025	5.58	PASS	0.026	4.96	PASS	0.029	5.34	PASS	0.028	4.95	PASS	0.024	5.49	PASS	0.025	4.91	PASS	0.026	4.16	PASS	0.025	5.40	PASS	0.026		
7/26/2025	5.59	PASS	0.026	4.96	PASS	0.029	5.35	PASS	0.028	4.94	PASS	0.024	5.52	PASS	0.025	4.91	PASS	0.025	4.18	PASS	0.025	5.41	PASS	0.025		
7/27/2025	5.52	PASS	0.026	4.95	PASS	0.029	5.33	PASS	0.027	4.94	PASS	0.024	5.56	PASS	0.025	5.04	PASS	0.026	4.18	PASS	0.025	5.39	PASS	0.025		
7/28/2025	5.59	PASS	0.026	4.94	PASS	0.029	5.36	PASS	0.027	4.93	PASS	0.024	5.60	PASS	0.025	5.04	PASS	0.026	4.19	PASS	0.025	5.41	PASS	0.025		
7/29/2025	5.58	PASS	0.026	4.97	PASS	0.028	5.35	PASS	0.028	4.93	PASS	0.024	5.61	PASS	0.024	5.39	PASS	0.025	4.19	PASS	0.024	5.44	PASS	0.025		
7/30/2025	5.55	PASS	0.025	4.97	PASS	0.029	5.38	PASS	0.027	4.93	PASS	0.023	5.50	PASS	0.024	5.15	PASS	0.025	4.13	PASS	0.024	5.35	PASS	0.024		
7/31/2025	5.56	PASS	0.025	4.97	PASS	0.028	5.33	PASS	0.028	4.89	PASS	0.025	5.49	PASS	0.024	5.13	PASS	0.025	4.14	PASS	0.024	5.35	PASS	0.025		
Avg	5.58		0.025	4.99		0.028	5.37		0.026	4.25		0.027	5.55		0.024	5.16		0.026	4.21		0.024	5.42		0.025		
Min	5.50		0.024	4.89		0.025	5.26		0.024	3.81		0.023	5.44		0.023	4.91		0.024	4.13		0.023	5.32		0.024		
Max	5.65		0.027	5.04		0.029	5.46		0.029	5.03		0.073	5.65		0.027	5.39		0.034	4.28		0.026	5.49		0.026		

Skid 4 was out for module replacement

Note: As calculated by the manufacturer, the Upper Control Limit (UCL) for the installed membrane filtration system is 3.32 psi/min. Per the manufacturer's UCL calculation: Q = 1,848 gpm, ALCR = 44.6, P atm = 14.4 psi, LRC = 3, V sys = 356.9 gallons, and VCF = 1.

Operational Guidelines: We have established the following parameter values as control limits to trigger skids to be taken out of service and evaluated.
 Min LRV: A value of 3.3. Max Air Hold Test Result: While not shown on this page, an AHT result of 0.84 PSI/Min or greater.
 Max NTU: A turbidity reading of 0.15 NTU or greater.
 Flow or Q: While not shown here, a skid will be evaluated if it cannot sustain a flow above 1,000 GPM

In Service Dates For Modules			
Train 1		Train 2	
Skid 1	8/2024	12/2023	Skid 2
Skid 3	11/2023	7/2025	Skid 4
Skid 5	2/2023	10/2024	Skid 6
Skid 7	8/2015	1/2023	Skid 8

Treatment Chemical Dosages											
Date	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydrofluorosilicic Acid		
		Raw Water	Membrane Feed Water	Dose pre-FW Tanks	Treated Water	Post FW Tanks	Dose pre-FW Tanks	Post FW Tanks	Raw Water	Dose pre-FW Tanks	Post FW Tanks
	Volume	Free Cl ₂					PO ₄		F ⁻		
	MG	mg/L					mg/L		mg/L		
	FIT-4000-1	AIT-1035-2	AIT-1035-4	Added	AIT-4030-1	AIT-4050-1	Added	AIT-4040-5	Lab - Mem Feed	Added	Lab
7/1/2025	5.1	0.57	0.30	0.91	1.39	1.24	3.25	3.39	0.09	0.56	0.72
7/2/2025	10.0	0.60	0.35	0.94	1.36	1.19	3.24	3.42	0.09	0.56	0.72
7/3/2025	10.0	0.56	0.40	0.94	1.40	1.23	3.11	3.38	0.09	0.56	0.72
7/4/2025	9.9	0.58	0.45	0.78	1.38	1.24	3.15	3.38	0.09	0.56	0.72
7/5/2025	8.9	0.51	0.42	0.72	1.35	1.27	3.15	3.39	0.08	0.56	0.71
7/6/2025	9.1	0.47	0.35	0.78	1.34	1.20	3.15	3.39	0.09	0.56	0.72
7/7/2025	7.9	0.63	0.37	0.73	1.38	1.23	3.15	3.39	0.08	0.56	0.71
7/8/2025	9.0	0.37	0.36	0.86	1.36	1.22	3.15	3.38	0.08	0.56	0.70
7/9/2025	9.1	0.42	0.28	0.86	1.35	1.20	3.15	3.36	0.09	0.56	0.70
7/10/2025	8.6	0.62	0.37	0.88	1.43	1.25	3.15	3.35	0.08	0.56	0.71
7/11/2025	8.5	0.63	0.44	0.84	1.45	1.31	3.15	3.34	0.08	0.56	0.71
7/12/2025	8.0	0.61	0.45	0.85	1.47	1.31	3.15	3.35	0.08	0.56	0.71
7/13/2025	8.7	0.57	0.42	0.85	1.43	1.29	3.15	3.35	0.08	0.56	0.71
7/14/2025	9.6	0.64	0.43	0.85	1.46	1.30	3.15	3.35	0.08	0.56	0.71
7/15/2025	9.6	0.60	0.46	0.82	1.43	1.30	3.15	3.34	0.08	0.56	0.71
7/16/2025	9.7	0.46	0.40	0.88	1.42	1.29	3.15	3.35	0.08	0.56	0.70
7/17/2025	8.4	0.48	0.35	0.98	1.45	1.28	3.15	3.36	0.09	0.56	0.73
7/18/2025	8.9	0.40	0.32	1.02	1.46	1.31	3.15	3.37	0.11	0.56	0.73
7/19/2025	8.3	0.25	0.22	1.11	1.44	1.29	3.15	3.37	0.08	0.55	0.72
7/20/2025	8.6	0.20	0.13	1.24	1.46	1.27	3.15	3.37	0.09	0.54	0.70
7/21/2025	9.8	0.20	0.12	1.22	1.47	1.30	3.15	3.38	0.09	0.54	0.70
7/22/2025	9.9	0.17	0.09	1.26	1.47	1.28	3.15	3.38	0.09	0.53	0.69
7/23/2025	10.7	0.25	0.10	1.29	1.49	1.29	3.15	3.38	0.09	0.52	0.67
7/24/2025	10.2	0.26	0.14	1.23	1.51	1.32	3.15	3.38	0.09	0.54	0.66
7/25/2025	9.9	0.23	0.12	1.31	1.50	1.29	3.15	3.38	0.09	0.56	0.68
7/26/2025	9.0	0.27	0.13	1.31	1.52	1.31	3.15	3.38	0.08	0.56	0.69
7/27/2025	8.8	0.22	0.11	1.40	1.50	1.29	3.15	3.38	0.09	0.56	0.69
7/28/2025	10.3	0.32	0.12	1.29	1.53	1.33	3.15	3.38	0.09	0.56	0.68
7/29/2025	8.9	0.34	0.18	1.25	1.50	1.32	3.15	3.38	0.08	0.56	0.68
7/30/2025	9.9	0.28	0.17	1.25	1.47	1.30	3.15	3.38	0.09	0.56	0.69
7/31/2025	8.6	0.20	0.16	1.32	1.48	1.29	3.15	3.38	0.11	0.56	0.72
Avg	9.1	0.42	0.28	1.03	1.44	1.28	3.15	3.37	0.09	0.56	0.70
Min	5.1	0.17	0.09	0.72	1.34	1.19	3.11	3.34	0.08	0.52	0.66
Max	10.7	0.64	0.46	1.40	1.53	1.33	3.25	3.42	0.11	0.56	0.73

Date	Disinfection CT														
	Pipeline CT				FW Tank CT							Compliance			
	Whitestone	Travel Time	Residual	CT	FW Tank 1	FW Tank 2	Plant	Contact Time	Free Cl ₂	CT	Total CT	Temp	CT	CT	
	Flow	Min	RW	Achieved	Min Level	Min Level	Flow	Min	Min	Achieved	Achieved	Avg	Required	Met	
	MGD	Minutes	mg/L	mg-min/L	ft	ft	MGD	Minutes	mg/L	mg-min/L	mg-min/L	°C	mg-min/L	Y/N	
Entry	Calculated	AIT-1035-2	Calculated	LIT-4005-1	LIT-4005-2	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	AIT-4040-1	Calculated	Calculated	
7/1/2025	64.5	1,940	0.57	1102	28.6	23.0	4.6	761	1.17	446	1547	18.4	4.00	Y	
7/2/2025	60.2	2,079	0.60	1251	28.8	21.9	9.0	387	1.16	224	1475	17.4	4.00	Y	
7/3/2025	56.7	2,207	0.56	1241	28.8	21.9	9.2	377	1.19	224	1465	16.6	4.00	Y	
7/4/2025	57.5	2,175	0.58	1270	28.7	21.8	8.8	394	0.96	188	1458	15.8	4.00	Y	
7/5/2025	69.2	1,807	0.51	926	28.8	23.5	8.2	436	1.19	260	1186	15.8	4.00	Y	
7/6/2025	70.2	1,783	0.47	834	28.8	22.2	8.2	425	1.17	249	1083	16.4	4.00	Y	
7/7/2025	70.4	1,777	0.63	1114	28.6	21.9	7.2	481	1.20	289	1403	16.1	4.00	Y	
7/8/2025	61.5	2,036	0.37	759	28.4	22.1	8.0	432	1.17	253	1012	15.0	6.00	Y	
7/9/2025	58.5	2,139	0.42	907	28.7	23.9	8.4	431	1.16	249	1157	15.1	4.00	Y	
7/10/2025	58.0	2,157	0.62	1342	28.6	21.9	7.9	438	1.19	261	1603	15.5	4.00	Y	
7/11/2025	58.7	2,129	0.63	1338	28.6	21.9	7.9	440	1.27	279	1617	15.3	4.00	Y	
7/12/2025	61.3	2,041	0.61	1247	28.6	21.6	7.2	476	1.28	303	1551	15.7	4.00	Y	
7/13/2025	62.2	2,011	0.57	1141	28.8	24.1	7.9	457	1.24	283	1424	16.0	4.00	Y	
7/14/2025	60.3	2,074	0.64	1320	28.8	22.6	8.8	400	1.25	251	1571	17.0	4.00	Y	
7/15/2025	58.0	2,157	0.60	1293	28.8	21.9	8.9	392	1.28	250	1543	17.2	4.00	Y	
7/16/2025	59.9	2,089	0.46	970	28.8	22.2	8.8	396	1.25	248	1218	16.9	4.00	Y	
7/17/2025	60.5	2,069	0.48	993	28.8	24.1	7.7	472	1.23	291	1284	16.5	4.00	Y	
7/18/2025	63.3	1,975	0.40	795	28.8	24.9	8.2	450	1.29	290	1085	15.7	4.00	Y	
7/19/2025	66.7	1,877	0.25	467	28.6	23.0	7.6	464	1.23	286	753	15.5	4.00	Y	
7/20/2025	67.6	1,852	0.20	363	28.6	22.5	8.0	440	1.25	275	637	16.4	4.00	Y	
7/21/2025	60.8	2,057	0.20	412	28.8	22.1	9.0	389	1.28	248	660	17.1	4.00	Y	
7/22/2025	62.4	2,004	0.17	332	28.8	24.7	9.1	404	1.25	252	584	17.4	4.00	Y	
7/23/2025	63.4	1,974	0.25	485	28.8	23.3	9.9	360	1.25	226	711	18.3	4.00	Y	
7/24/2025	63.6	1,967	0.26	502	28.8	22.2	9.4	373	1.30	242	744	19.2	4.00	Y	
7/25/2025	77.1	1,623	0.23	374	28.9	22.6	9.0	392	1.25	245	618	19.4	4.00	Y	
7/26/2025	78.2	1,600	0.27	433	28.9	22.1	8.3	421	1.29	271	704	19.5	4.00	Y	
7/27/2025	70.6	1,771	0.22	383	28.6	22.1	8.0	432	1.25	271	654	19.6	4.00	Y	
7/28/2025	63.4	1,972	0.32	624	28.8	22.4	9.5	369	1.28	235	859	19.6	4.00	Y	
7/29/2025	64.4	1,943	0.34	669	28.8	21.6	8.4	409	1.28	263	931	19.0	4.00	Y	
7/30/2025	57.0	2,195	0.28	608	28.8	22.4	8.9	393	1.25	246	854	18.1	4.00	Y	
7/31/2025	58.3	2,144	0.20	430	28.8	24.8	7.8	472	1.25	295	724	17.4	4.00	Y	
Avg	63.4	1,988	0.42	836	28.7	22.7	8.3	431	1.23	264	1101	17.1	4.06	NA	
Min	56.7	1,600	0.17	332	28.4	21.6	4.6	360	0.96	188	584	15.0	4.00	NA	
Max	78.2	2,207	0.64	1342	28.9	24.9	9.9	761	1.30	446	1617	19.6	6.00	NA	

Notes:

Pipeline volume factor in SMMWSC to RW tank: 125,090 MG-min/day

SCADA didn't harvest some of Saginaw Midland flow data correctly. 7/15 and 7/16 were notably high at 116.1 and 116.9 respectively. The flow totals for those two days were manually enter from flow data directly provided from Saginaw Midland.

Distribution System Monitoring																									
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)																									
WSSN:	0072	0390				0400			0470						0485					0517	0518		2180		
	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City						Bay County					Beaver Rd	Beaver Twp		Essexville		
Date	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32	
7/1/2025	0.15	0.38	0.40	0.34												0.85	0.71	0.74	0.76	0.76			0.31		
7/2/2025									0.89	0.28	0.71	0.89	0.24	0.96											
7/3/2025						0.92	1.07																		
7/4/2025																									
7/5/2025																									
7/6/2025																									
7/7/2025																									1.09
7/8/2025					1.03				0.82	0.39	0.61	0.88	0.29	1.07	0.63	0.60	0.67	0.68	0.81	0.49					
7/9/2025																									
7/10/2025		0.87	0.53						0.79	0.23	0.66	0.89	0.34	1.10	0.71						0.78		0.38		
7/11/2025																									
7/12/2025																									
7/13/2025																									
7/14/2025																									1.05
7/15/2025								0.97																	
7/16/2025									0.97	0.38	0.69	0.96	0.40	1.17	0.82										
7/17/2025		0.86	0.36		1.13																				
7/18/2025																									
7/19/2025																									
7/20/2025																									
7/21/2025																									1.16
7/22/2025				0.68					1.02	0.53	0.73	0.99	0.44	1.20	0.79										
7/23/2025																									
7/24/2025																									
7/25/2025																									
7/26/2025																									
7/27/2025																									
7/28/2025																									
7/29/2025																									1.09
7/30/2025									0.95	0.39	0.71	0.90	0.34	1.20	0.73										
7/31/2025																									
Average	0.15		0.66				0.99					0.72						0.71			0.78		0.35		1.10
Min	0.15		0.34				0.92					0.23						0.49			0.78		0.31		1.05
Max	0.15		1.13				1.07					1.20						0.85			0.78		0.38		1.16

MONITORING STATION ADDRESSES

- | | | |
|--|---|---|
| 1. Sample station at corner of 5758 M-25 & R | 11. Number 1 Fire Station, 1401 Center Ave | 19. Dore's M-84 Party Store, 6183 WS Saginaw Rd |
| 3. Bangor Fire Station, 3921 Wheeler | 12. Number 2 Fire Station, 1000 Fremont Ave | 20. Pump Station #13, 6000 WS Saginaw Rd |
| 4. BCDWS Admin. Bldg. 3933 Patterson Rd. | 13. Jack's Fruit Market, 1000 Salzburg Ave | 23. Rail Trail Pump Station, 366 N. Tuscola Rd. |
| 5. 7-11, 3543 S. Old Kawkawlin Rd. | 14. Number 4 Fire Station, 212 S. Dean St | 24. Little Learners Daycare, 1694 Cass Ave. |
| 6. Admiral Petroleum, 314 S Euclid Ave. | 15. Number 5 Fire Station, 1209 Smith St | 26. Wieland Contracting, 2443 S Mackinaw Rd |
| 7. Sequin Lumber, 3881 Euclid Ave | 16. Bay City Hall, 301 Washington Ave | 29. Sample Station, 2515 S. 11 Mile Rd |
| 9. Top Gun Liquor, 2981 Midland Rd | 17. Skipper Buds Marina, 1809 S Water St | 30. Sample Station, 340 W. Beaver Rd |
| 10. Little Caesars, 3475 E North Union Rd | 18. Bay Valley Animal Hospital 6015 WS Saginaw Rd | 32. Essexville City Hall, 1107 Woodside Ave |

Distribution System Monitoring																											
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl ₂)																											
WSSN:	2465		2960				3565			3570		3910		4280		4440			5330		5335		5540	7125			7134
	Fraser Twp.		Hampton Twp.				Kawkawlin Twp.			Kawkawlin Met.		Linwood, LMWD		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
Date	34	35	36	37	38	39	40	41	42	43	45	73	74	46	48	49	52	55	58	59	61	63	65	68	69	70	72
7/1/2025														0.42									0.50	0.48	0.55	0.58	0.30
7/2/2025																											
7/3/2025		0.72						0.60		0.78						1.06	0.61	0.85	0.55		0.31						
7/4/2025																											
7/5/2025																											
7/6/2025																											
7/7/2025																											
7/8/2025			0.75	0.45	0.33	0.43						0.79		0.38													
7/9/2025																											
7/10/2025	0.30						1.05		0.76	0.71									0.21		0.62			0.73	0.70	0.44	
7/11/2025																											
7/12/2025																											
7/13/2025																											
7/14/2025																											
7/15/2025				0.57	0.33	0.44										0.97	0.69	0.78									
7/16/2025																											
7/17/2025																											
7/18/2025																											
7/19/2025																											
7/20/2025																											
7/21/2025																											
7/22/2025				0.59	0.54	0.51																					
7/23/2025																											
7/24/2025																											
7/25/2025																											
7/26/2025																											
7/27/2025																											
7/28/2025																											
7/29/2025																											
7/30/2025																											
7/31/2025																											
Average	0.51		0.49				0.80			0.75		0.79		0.40		0.83			0.38		0.47		0.50	0.58			0.30
Min	0.30		0.33				0.60			0.71		0.79		0.38		0.61			0.21		0.31		0.50	0.44			0.30
Max	0.72		0.75				1.05			0.78		0.79		0.42		1.06			0.55		0.62		0.50	0.73			0.30

MONITORING STATION ADDRESSES

34. Fraser Elevated Tank, 2949 1/2 N. Huron Rd	43. Speedway, 106 S. Huron Rd.	59. Marathon Gas Station, 511 S Mabel St	73. Larry Chambers, 407 W. Clara Street
35. Lloyd's Cabinet, 1947 N Huron Rd	45. Kawkawlin Restaurant, 103 S Huron Rd	61. Pinconning Meter Pit, 3005 N Huron Rd	74. Linwood Party and Sporting Goods, 211 W. Center St.
36. Shirts Mugs & More, 2728 Center Ave	46. John's Bar, 1476 S Tuscola Rd	63. Master Meter Pit, 2865 Pinconning Rd	
37. Hampton DPW, 950 Wagner Rd.	48. Tooi Shed Bar, 12 W Munger Rd	65. Ike's Welding, 50 N Finn Rd	
38. Bay County Golf Course, 584 W Hampton Rd.	49. Wilder Rd Party Store, 2951 E Wilder Rd	68. Williams Township Hall, 1080 W Midland Rd	
39. Sewer Lift Station, 902 Nebobish Rd.	52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd	69. Pump Station, 490 W. Salzburg & 9 Mile Rd	
40. Bay Co. Road Commisison, 2600 E Beaver Rd	55. Auburn Fertilizer, 4640 S 7 Mile Rd	70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd	
41. Parish Rd. Elevated Tank, 1770 E. Parish Rd	58. Pinconning City Hall, 208 S Manitou St	72. Lindy's Sales, 9051 M-25	
42. Linwood Tile, 205 S Huron Rd			

Distribution System Bacteriological							
Water Supplier Bacteriological Analysis Report							
MICHIGAN DEPARTMENT OF PUBLIC HEALTH Bureau of Environmental Health Water Supplier Bacteriological Analysis Report				Name of Water Supply			
				Bay Area Water Treatment Plant			
				July, 2025			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.15	1	1	0	0
BAY	Bangor Township	0390	0.66	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.99	3	3	0	0
BAY	Bay City	0470	0.72	30	41	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	9	10	0	0
BAY	Beaver Road Area	0517	0.78	1	1	0	0
BAY	Beaver Township	0518	0.35	2	2	0	0
BAY	Essexville	2180	1.10	4	4	0	0
BAY	Fraser Township	2465	0.51	2	2	0	0
BAY	Hampton Township	2960	0.49	10	10	0	0
BAY	Kawkawlin Township	3565	0.80	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.75	2	2	0	0
BAY	Linwood Metro Water District	3910	0.79	1	1	0	0
BAY	Merritt Township	4280	0.40	2	2	0	0
BAY	Monitor Township	4440	0.83	6	6	0	0
BAY	City of Pinconning	5330	0.38	2	2	0	0
BAY	Pinconning Township	5335	0.47	2	2	0	0
BAY	Portsmouth Township	5540	0.50	1	1	0	0
BAY	Williams Township	7125	0.58	6	6	0	0
Tuscola	Wisner	7134	0.30	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.61	98 mg/L			
1. Total distribution samples			110				
2. Total distribution samples with detectable free cl2 residual			110				
3. Total distribution samples with no detectable free cl2 residual			0				
4. Total distribution samples with no detectable free cl2 residual and HPC was <500			0				
5. Total distribution samples with no detectable free cl2 residual and HPC was >500			0				
6. Percent of distribution samples with no detectable free cl2 residual			0.00%	%			
7. Percent shown line #6 in previous monthly report			0.00%	%			