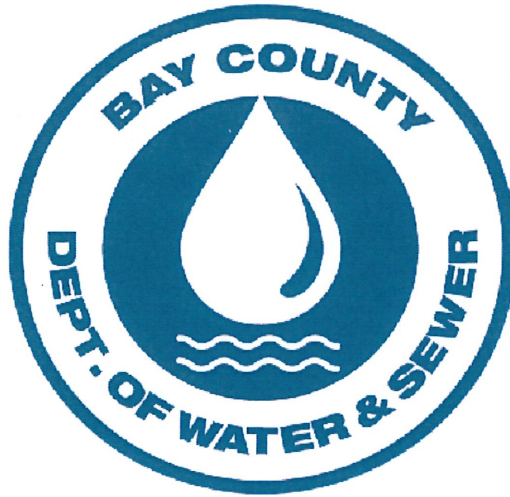


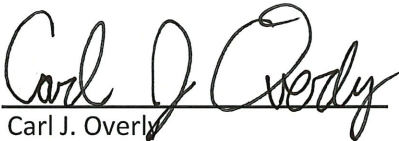
Bay Area WTP

Monthly Operations Report



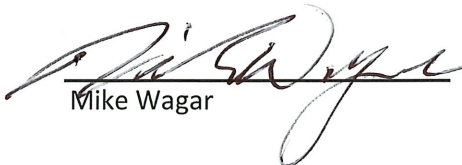
January, 2025

Water Systems Serial Number: 0465


Carl J. Overly

Water Plant Superintendent
Title

F-1, S-3, D-4
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

Carl J. Overly
 Operator-in-charge

January, 2025
 Month, Year

F-1, S-3, D-4
 Certification of Operator-in-charge

F-1
 Water Plant Classification

20001
 Operator Identification Number for Operator-in-charge

Bay
 County

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>8.5</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>18.72</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>29.63</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>4,688</u>	Gallons	Estimated Supply:	<u>102.4</u>	days
Caustic Soda on hand:	<u>2,039</u>	Gallons	Estimated Supply:	<u>139.7</u>	days
Corrosion Inhibitor on hand:	<u>514</u>	Gallons	Estimated Supply:	<u>23.5</u>	days
Hydrofluosilicic Acid on hand:	<u>1,638</u>	Gallons	Estimated Supply:	<u>107.8</u>	days
Aluminum Chlorohydrate on hand:	<u>912</u>	Gallons	Estimated Supply:	<u>222.9</u>	days
Sulfuric Acid on hand:	<u>581</u>	Gallons	Estimated Supply:	<u>290.4</u>	days
Sodium Bisulfite on hand:	<u>1,034</u>	Gallons	Estimated Supply:	<u>356.5</u>	days
Citric Acid on hand:	<u>2,036</u>	Gallons	Estimated Supply:	<u>162.9</u>	days
Cost of All Chemicals per Million Gallons:	<u>88.55</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>1,058.94</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>26.08</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

Train 1 had an issue with a blower valve on a skid intermittently not close correctly. This allowed water to get the blower. This issue took a moment took a couple of days to track down and resolve. Below are time when the train was down and the work that followed on skid 5.
 Odd filters out of service for maint. 1/16/25 at 8:23pm, back in service 1/17/25 at 9:32am
 Odd filters out of service for maint. 1/19/25 at 3:44pm, back in service 1/20/25 at 11:56am
 Filter #5 out for Maint. On 1/19/25 @ 1544 and back in service on 1/21/25 @ 0751
 Skid 5 shows missing LRV, AHT, and NTU on 1/20 because it was out of service.

Bay Area WTP Monthly Operating Report

Date	Flows													
	Raw Water (MG)				Clarified (MG)		Sludge (MG)		Treated (MG)		Finished Water Pumped (MG)			
	N. Euclid	Lauria Road	Total	Calculated	Total	FIT-5520-1	Total	FIT-5180	Total	FIT-4000-1	N. Euclid	Lauria Road	Total	Calculated
	FIT-1000-1	FIT-1000-2									FIT-4040-1	FIT-4040-2		
1/1/2025	0.00	7.10	7.10	7.10	0.18	0.08	0.08	6.80	3.10	2.80	5.89			
1/2/2025	0.00	7.39	7.39	7.39	0.18	0.08	6.56	3.13	2.80	5.93				
1/3/2025	0.00	6.06	6.06	6.06	0.18	0.08	6.40	3.12	2.76	5.88				
1/4/2025	0.00	6.23	6.23	6.23	0.19	0.08	6.55	3.07	2.73	5.79				
1/5/2025	0.00	6.55	6.55	6.55	0.17	0.08	6.66	3.14	2.79	5.93				
1/6/2025	0.00	6.63	6.63	6.63	0.16	0.09	6.31	3.09	2.71	5.80				
1/7/2025	0.00	6.66	6.66	6.66	0.19	0.08	6.60	3.02	2.66	5.69				
1/8/2025	0.00	6.63	6.63	6.63	0.18	0.08	6.69	3.22	2.82	6.03				
1/9/2025	0.00	6.57	6.57	6.57	0.16	0.09	6.36	3.16	2.72	5.88				
1/10/2025	0.00	6.61	6.61	6.61	0.15	0.08	6.28	3.00	2.55	5.56				
1/11/2025	0.00	6.36	6.36	6.36	0.15	0.08	6.50	3.06	2.70	5.76				
1/12/2025	0.00	6.19	6.19	6.19	0.15	0.08	6.40	3.09	2.78	5.87				
1/13/2025	0.00	6.41	6.41	6.41	0.18	0.08	6.44	3.03	2.70	5.73				
1/14/2025	0.00	6.41	6.41	6.41	0.16	0.08	6.40	3.02	2.68	5.70				
1/15/2025	0.00	6.49	6.49	6.49	0.15	0.08	6.57	3.06	2.70	5.76				
1/16/2025	0.00	6.49	6.49	6.49	0.19	0.08	6.61	3.20	2.85	6.05				
1/17/2025	0.00	6.52	6.52	6.52	0.20	0.09	6.63	3.10	2.75	5.86				
1/18/2025	0.00	6.54	6.54	6.54	0.19	0.08	6.65	3.24	2.76	6.00				
1/19/2025	0.00	6.96	6.96	6.96	0.17	0.08	6.48	3.17	2.81	5.98				
1/20/2025	0.00	6.92	6.92	6.92	0.16	0.08	7.25	3.31	2.92	6.24				
1/21/2025	0.00	6.77	6.77	6.77	0.19	0.08	6.62	3.24	2.84	6.08				
1/22/2025	0.00	7.30	7.30	7.30	0.25	0.08	8.46	4.20	3.58	7.78				
1/23/2025	0.00	7.38	7.38	7.38	0.19	0.08	7.10	3.37	2.99	6.36				
1/24/2025	0.00	6.89	6.89	6.89	0.19	0.07	7.21	3.47	3.02	6.49				
1/25/2025	0.00	7.12	7.12	7.12	0.18	0.08	7.06	3.40	2.96	6.36				
1/26/2025	0.00	7.12	7.12	7.12	0.22	0.08	7.72	3.66	3.30	6.96				
1/27/2025	0.00	8.27	8.27	8.27	0.22	0.08	7.19	3.48	3.09	6.56				
1/28/2025	0.00	7.76	7.76	7.76	0.18	0.08	7.31	3.48	3.01	6.49				
1/29/2025	0.00	7.00	7.00	7.00	0.20	0.08	7.17	3.45	3.11	6.56				
1/30/2025	0.00	7.41	7.41	7.41	0.19	0.09	7.05	3.37	2.99	6.36				
1/31/2025	0.00	6.96	6.96	6.96	0.21	0.08	7.38	3.39	3.01	6.40				
Total	0.00	211.70	211.70	211.70	5.65	2.48	211.40	100.84	88.90	189.74				
Avg	0.00	6.83	6.83	6.83	0.18	0.08	6.82	3.25	2.87	6.12				
Min	0.00	6.06	6.06	6.06	0.15	0.07	6.28	3.00	2.55	5.56				
Max	0.00	8.27	8.27	8.27	0.25	0.09	8.46	4.20	3.58	7.78				

Finished Water Analysis

Date	Temp Average °C	pH Average	Phosphate Average	Fluoride		Free Cl ₂ Average	Hardness Grab	Alkalinity (as CaCO ₃)		Chloride Grab	Sulfate Grab	Calcium (as CaCO ₃) Grab	Dissolved Oxygen		Conductivity		Langelier Saturation Index	Chloride: Sulfate Mass Ratio	Larson- Skold Index	Bacti	
				Tap	Dist			Carbonate	Bicarbonate				Grab	Grab	Grab	Grab				Total Coliform	Positive/ Negative
				mg/L				mg/L					mg/L		mg/L					mg/L	
1/1/2025	5.3	7.54	3.33	0.68	0.99	104.00	0	79	10	11	76	12.2	223	-1.00	0.86	0.39	Negative	Negative			
1/2/2025	5.2	7.57	3.37	0.68	1.01	96.00	0	76	10	10	76	11.3	224	-0.99	0.97	0.39	Negative	Negative			
1/3/2025	5.1	7.56	3.45	0.68	1.00	98.00	0	76	10	10	76	12.5	223	-1.02	1.02	0.40	Negative	Negative			
1/4/2025	5.0	7.57	3.43	0.69	1.03	98.00	0	76	9	12	76	11.6	224	-0.99	0.78	0.42	Negative	Negative			
1/5/2025	5.0	7.58	3.42	0.68	1.02	98.00	0	75	9	11	74	11.5	223	-1.00	0.85	0.40	Negative	Negative			
1/6/2025	5.0	7.55	3.41	0.68	0.99	98.00	0	75	10	11	74	12.4	222	-1.03	0.91	0.42	Negative	Negative			
1/7/2025	5.4	7.52	3.41	0.68	0.99	98.00	0	76	10	10	74	13.1	222	-1.04	0.97	0.39	Negative	Negative			
1/8/2025	5.3	7.49	3.41	0.67	1.00	100.00	0	78	11	14	72	8.7	213	-1.07	0.79	0.47	Negative	Negative			
1/9/2025	5.1	7.54	3.41	0.66	1.00	98.00	0	76	10	11	74	12.6	211	-1.03	0.91	0.41	Negative	Negative			
1/10/2025	5.0	7.52	3.41	0.66	0.98	100.00	0	74	10	11	72	12.7	223	-1.07	0.91	0.42	Negative	Negative			
1/11/2025	4.8	7.53	3.41	0.68	1.00	100.00	0	77	10	12	74	12.2	229	-1.05	0.83	0.42	Negative	Negative			
1/12/2025	4.6	7.54	3.40	0.67	1.00	100.00	0	76	11	11	76	12.7	231	-1.04	1.00	0.44	Negative	Negative			
1/13/2025	4.4	7.56	3.40	0.70	0.99	100.00	0	76	11	11	70	13.2	238	-1.06	1.00	0.44	Negative	Negative			
1/14/2025	4.2	7.57	3.40	0.67	0.99	100.00	0	80	10	12	74	13.0	241	-1.02	0.93	0.52	Negative	Negative			
1/15/2025	4.2	7.56	3.39	0.67	0.99	100.00	0	80	10	12	76	13.0	240	-1.00	0.83	0.41	Negative	Negative			
1/16/2025	4.1	7.55	3.40	0.68	1.02	100.00	0	79	10	11	76	13.1	234	-1.00	0.91	0.40	Negative	Negative			
1/17/2025	4.2	7.52	3.39	0.67	1.02	98.00	0	78	10	12	76	12.8	229	-1.06	0.83	0.42	Negative	Negative			
1/18/2025	4.3	7.52	3.39	0.66	1.01	98.00	0	77	9	12	74	12.8	228	-1.07	0.75	0.40	Negative	Negative			
1/19/2025	4.3	7.52	3.38	0.66	1.01	98.00	0	76	9	12	74	12.7	227	-1.08	0.78	0.41	Negative	Negative			
1/20/2025	3.3	7.50	3.37	0.67	1.03	100.00	0	76	9	11	76	12.9	227	-1.11	0.82	0.39	Negative	Negative			
1/21/2025	3.0	7.46	3.37	0.67	0.98	98.00	0	78	9	11	76	14.1	226	-1.14	0.82	0.38	Negative	Negative			
1/22/2025	2.9	7.49	3.36	0.68	1.02	98.00	0	76	10	13	72	12.6	214	-1.15	0.77	0.45	Negative	Negative			
1/23/2025	2.9	7.49	3.37	0.69	1.00	104.00	0	78	10	11	78	14.4	224	-1.10	0.91	0.40	Negative	Negative			
1/24/2025	2.8	7.50	3.36	0.68	1.00	102.00	0	78	10	13	74	13.4	226	-1.13	0.77	0.44	Negative	Negative			
1/25/2025	2.7	7.50	3.37	0.66	0.99	98.00	0	76	9	13	74	13.6	229	-1.14	0.65	0.41	Negative	Negative			
1/26/2025	2.5	7.52	3.37	0.67	1.01	102.00	0	77	10	11	76	12.8	230	-1.11	0.90	0.41	Negative	Negative			
1/27/2025	2.8	7.52	3.36	0.69	1.01	100.00	0	77	11	13	78	13.3	233	-1.09	0.83	0.46	Negative	Negative			
1/28/2025	3.0	7.50	3.36	0.68	1.01	98.00	0	77	11	12	80	13.1	235	-1.09	0.94	0.45	Negative	Negative			
1/29/2025	3.1	7.49	3.36	0.68	1.02	102.00	0	76	10	13	74	12.9	231	-1.14	0.80	0.46	Negative	Negative			
1/30/2025	3.2	7.46	3.28	0.67	1.05	100.00	0	77	9	12	76	13.6	229	-1.15	0.78	0.41	Negative	Negative			
1/31/2025	3.4	7.42	3.33	0.68	1.01	100.00	0	76	10	11	76	13.6	227	-1.19	0.88	0.41	Negative	Negative			
Avg	4.1	7.52	3.38	0.68	1.00	99.48	0	77	10	12	75	12.7	227	-1.07	0.86	0.42	NA	NA			
Min	2.5	7.42	3.28	0.66	0.98	96.00	0	74	9	10	70	8.7	213	-1.19	0.65	0.38	NA	NA			
Max	5.4	7.58	3.45	0.70	1.05	104.00	0	80	13	14	80	14.4	241	-0.99	1.02	0.52	NA	NA			

Plant Tap Disinfection Byproduct Monitoring - Results In ppb			
Date	Total Trihalomethanes - TTHM		
	Result	LRAA	OEL
1/7/25	13	27	20

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			
1/1/2025	2.00	6.89	5.84	1.11	0.023	0.023	96	0	0.0	0.023		
1/2/2025	0.73	0.93	4.88	0.79	0.023	0.023	96	0	0.0	0.023		
1/3/2025	0.72	1.01	4.22	0.66	0.023	0.034	96	0	0.0	0.023		
1/4/2025	0.61	0.97	4.67	0.54	0.023	0.023	96	0	0.0	0.023		
1/5/2025	0.72	2.04	4.38	0.47	0.022	0.023	96	0	0.0	0.023		
1/6/2025	0.41	4.93	2.74	0.48	0.022	0.023	96	0	0.0	0.023		
1/7/2025	0.27	0.61	2.50	0.38	0.021	0.023	96	0	0.0	0.023		
1/8/2025	1.72	3.89	2.80	0.68	0.022	0.023	96	0	0.0	0.023		
1/9/2025	0.59	1.12	3.46	0.82	0.023	0.035	96	0	0.0	0.023		
1/10/2025	0.34	0.40	2.39	0.55	0.023	0.024	96	0	0.0	0.023		
1/11/2025	0.60	0.74	2.19	0.49	0.023	0.024	96	0	0.0	0.023		
1/12/2025	0.56	0.85	2.67	0.54	0.023	0.024	96	0	0.0	0.023		
1/13/2025	0.46	0.56	5.16	0.53	0.023	0.024	96	0	0.0	0.024		
1/14/2025	0.41	0.46	5.44	0.48	0.023	0.024	96	0	0.0	0.024		
1/15/2025	0.33	0.41	4.02	0.42	0.023	0.023	96	0	0.0	0.024		
1/16/2025	0.23	0.26	4.00	0.35	0.023	0.023	96	0	0.0	0.024		
1/17/2025	0.21	0.23	2.66	0.30	0.023	0.023	96	0	0.0	0.025		
1/18/2025	0.23	0.30	2.16	0.28	0.023	0.023	96	0	0.0	0.023		
1/19/2025	0.26	0.36	2.42	0.27	0.023	0.023	96	0	0.0	0.023		
1/20/2025	0.27	0.38	1.55	0.26	0.023	0.023	96	0	0.0	0.024		
1/21/2025	0.22	0.25	3.17	0.25	0.023	0.023	96	0	0.0	0.024		
1/22/2025	0.19	2.31	3.79	0.23	0.022	0.023	96	0	0.0	0.024		
1/23/2025	0.19	4.22	3.65	0.21	0.022	0.023	96	0	0.0	0.024		
1/24/2025	0.19	0.26	1.61	0.19	0.022	0.023	96	0	0.0	0.023		
1/25/2025	0.25	0.36	1.61	0.21	0.023	0.023	96	0	0.0	0.023		
1/26/2025	0.21	0.32	2.67	0.22	0.023	0.023	96	0	0.0	0.023		
1/27/2025	0.21	0.29	2.89	0.22	0.023	0.023	96	0	0.0	0.023		
1/28/2025	0.23	6.38	2.19	0.26	0.023	0.023	96	0	0.0	0.023		
1/29/2025	0.25	0.46	2.06	0.23	0.023	0.023	96	0	0.0	0.023		
1/30/2025	0.23	0.31	1.94	0.23	0.022	0.023	96	0	0.0	0.023		
1/31/2025	0.19	0.22	1.63	0.21	0.022	0.023	96	0	0.0	0.023		
Avg	0.45	1.38	3.14	0.42	0.023	0.024	96	0	0.0	0.023		
Min	0.19	0.22	1.55	0.19	0.021	0.023	96	0	0.0	0.023		
Max	2.00	6.89	5.84	1.11	0.023	0.035	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 1				Membrane 2				Membrane 3				Membrane 4				Membrane 5				Membrane 6				Membrane 7				Membrane 8			
	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max	LRV	Integrity	Turbidity	Max
	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU	Minimum	Pass/Fail	NTU	NTU
1/1/2025	5.59	PASS	0.025	0.025	5.16	PASS	0.024	0.024	4.14	PASS	0.024	0.024	5.36	PASS	0.023	0.023	5.11	PASS	0.023	0.023	4.30	PASS	0.023	0.023	5.52	PASS	0.023	0.023	5.52	PASS	0.023	0.023
1/2/2025	5.60	PASS	0.025	0.025	5.13	PASS	0.024	0.024	4.12	PASS	0.024	0.024	5.51	PASS	0.023	0.023	5.17	PASS	0.023	0.023	4.28	PASS	0.023	0.023	5.51	PASS	0.023	0.023	5.51	PASS	0.023	0.023
1/3/2025	5.60	PASS	0.025	0.025	5.13	PASS	0.024	0.024	4.12	PASS	0.024	0.024	5.46	PASS	0.023	0.023	5.17	PASS	0.023	0.023	4.25	PASS	0.023	0.023	5.50	PASS	0.023	0.023	5.50	PASS	0.023	0.023
1/4/2025	5.53	PASS	0.025	0.025	5.18	PASS	0.024	0.024	4.07	PASS	0.024	0.024	5.46	PASS	0.023	0.023	5.11	PASS	0.023	0.023	4.25	PASS	0.023	0.023	5.46	PASS	0.023	0.023	5.46	PASS	0.023	0.023
1/5/2025	5.52	PASS	0.025	0.025	5.15	PASS	0.023	0.023	4.07	PASS	0.024	0.024	5.39	PASS	0.023	0.023	5.10	PASS	0.023	0.023	4.27	PASS	0.023	0.023	5.44	PASS	0.023	0.023	5.44	PASS	0.023	0.023
1/6/2025	5.57	PASS	0.024	0.024	5.15	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.39	PASS	0.023	0.023	5.16	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.46	PASS	0.023	0.023	5.46	PASS	0.023	0.023
1/7/2025	5.57	PASS	0.025	0.025	5.17	PASS	0.024	0.024	4.03	PASS	0.023	0.023	5.47	PASS	0.023	0.023	5.18	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.37	PASS	0.023	0.023	5.37	PASS	0.023	0.023
1/8/2025	5.59	PASS	0.025	0.025	5.15	PASS	0.024	0.024	4.04	PASS	0.023	0.023	5.45	PASS	0.023	0.023	5.49	PASS	0.023	0.023	4.25	PASS	0.023	0.023	5.32	PASS	0.023	0.023	5.32	PASS	0.023	0.023
1/9/2025	5.56	PASS	0.025	0.025	5.06	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.45	PASS	0.023	0.023	5.47	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.31	PASS	0.023	0.023	5.31	PASS	0.023	0.023
1/10/2025	5.59	PASS	0.025	0.025	5.05	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.48	PASS	0.023	0.023	5.05	PASS	0.023	0.023	4.25	PASS	0.023	0.023	5.32	PASS	0.023	0.023	5.32	PASS	0.023	0.023
1/11/2025	5.58	PASS	0.025	0.025	5.10	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.48	PASS	0.023	0.023	5.04	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.32	PASS	0.023	0.023	5.32	PASS	0.023	0.023
1/12/2025	5.57	PASS	0.025	0.025	5.06	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.51	PASS	0.023	0.023	5.04	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.28	PASS	0.023	0.023	5.28	PASS	0.023	0.023
1/13/2025	5.57	PASS	0.025	0.025	5.04	PASS	0.024	0.024	4.04	PASS	0.024	0.024	5.44	PASS	0.023	0.023	5.02	PASS	0.023	0.023	4.24	PASS	0.024	0.024	5.27	PASS	0.023	0.023	5.27	PASS	0.023	0.023
1/14/2025	5.56	PASS	0.026	0.026	5.04	PASS	0.024	0.024	4.02	PASS	0.025	0.025	5.42	PASS	0.024	0.024	4.99	PASS	0.025	0.025	4.23	PASS	0.024	0.024	5.25	PASS	0.023	0.023	5.25	PASS	0.023	0.023
1/15/2025	5.49	PASS	0.025	0.025	5.08	PASS	0.026	0.026	4.00	PASS	0.025	0.025	5.41	PASS	0.024	0.024	4.99	PASS	0.024	0.024	4.20	PASS	0.024	0.024	5.22	PASS	0.023	0.023	5.22	PASS	0.023	0.023
1/16/2025	5.48	PASS	0.025	0.025	5.04	PASS	0.026	0.026	4.00	PASS	0.025	0.025	5.44	PASS	0.024	0.024	5.42	PASS	0.024	0.024	4.20	PASS	0.024	0.024	5.22	PASS	0.023	0.023	5.22	PASS	0.023	0.023
1/17/2025	5.49	PASS	0.025	0.025	5.04	PASS	0.026	0.026	4.03	PASS	0.024	0.024	5.44	PASS	0.024	0.024	5.44	PASS	0.024	0.024	4.21	PASS	0.024	0.024	5.25	PASS	0.023	0.023	5.25	PASS	0.023	0.023
1/18/2025	5.49	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.02	PASS	0.024	0.024	5.46	PASS	0.023	0.023	4.94	PASS	0.023	0.023	4.23	PASS	0.023	0.023	5.27	PASS	0.023	0.023	5.27	PASS	0.023	0.023
1/19/2025	5.54	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.49	PASS	0.023	0.023	5.47	PASS	0.023	0.023	4.20	PASS	0.024	0.024	5.26	PASS	0.023	0.023	5.26	PASS	0.023	0.023
1/20/2025	5.58	PASS	0.025	0.025	5.01	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.44	PASS	0.023	0.023	5.43	PASS	0.023	0.023	4.20	PASS	0.024	0.024	5.41	PASS	0.023	0.023	5.41	PASS	0.023	0.023
1/21/2025	5.52	PASS	0.025	0.025	5.12	PASS	0.024	0.024	4.01	PASS	0.024	0.024	5.46	PASS	0.023	0.023	5.42	PASS	0.023	0.023	4.20	PASS	0.024	0.024	5.23	PASS	0.023	0.023	5.23	PASS	0.023	0.023
1/22/2025	5.51	PASS	0.025	0.025	5.10	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.46	PASS	0.023	0.023	5.46	PASS	0.023	0.023	4.20	PASS	0.023	0.023	5.32	PASS	0.023	0.023	5.32	PASS	0.023	0.023
1/23/2025	5.52	PASS	0.025	0.025	5.09	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.45	PASS	0.023	0.023	5.48	PASS	0.023	0.023	4.22	PASS	0.023	0.023	5.27	PASS	0.023	0.023	5.27	PASS	0.023	0.023
1/24/2025	5.52	PASS	0.025	0.025	5.11	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.45	PASS	0.023	0.023	5.48	PASS	0.023	0.023	4.21	PASS	0.023	0.023	5.31	PASS	0.023	0.023	5.31	PASS	0.023	0.023
1/25/2025	5.51	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.42	PASS	0.023	0.023	5.47	PASS	0.023	0.023	4.20	PASS	0.024	0.024	5.24	PASS	0.023	0.023	5.24	PASS	0.023	0.023
1/26/2025	5.53	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.40	PASS	0.023	0.023	5.47	PASS	0.023	0.023	4.20	PASS	0.024	0.024	5.23	PASS	0.023	0.023	5.23	PASS	0.023	0.023
1/27/2025	5.53	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.05	PASS	0.024	0.024	5.39	PASS	0.023	0.023	5.44	PASS	0.023	0.023	4.26	PASS	0.023	0.023	5.23	PASS	0.023	0.023	5.23	PASS	0.023	0.023
1/28/2025	5.52	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.04	PASS	0.024	0.024	5.44	PASS	0.023	0.023	5.30	PASS	0.023	0.023	4.27	PASS	0.024	0.024	5.23	PASS	0.023	0.023	5.23	PASS	0.023	0.023
1/29/2025	5.52	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.04	PASS	0.024	0.024	5.44	PASS	0.023	0.023	5.29	PASS	0.023	0.023	4.27	PASS	0.024	0.024	5.23	PASS	0.023	0.023	5.23	PASS	0.023	0.023
1/30/2025	5.50	PASS	0.025	0.025	5.02	PASS	0.024	0.024	4.03	PASS	0.024	0.024	5.51	PASS	0.023	0.023	5.29	PASS	0.023	0.023	4.25	PASS	0.024	0.024	5.20	PASS	0.023	0.023	5.20	PASS	0.023	0.023
1/31/2025	5.52	PASS	0.024	0.024	5.05	PASS	0.023	0.023	4.04	PASS	0.024	0.024	5.40	PASS	0.023	0.023	5.36	PASS	0.023	0.023	4.23	PASS	0.023	0.023	5.30	PASS	0.023	0.023	5.30	PASS	0.023	0.023
Avg	5.54		0.025	0.025	5.08		0.024	0.024	4.04		0.024	0.024	5.44		0.023	0.023	5.28		0.023	0.023	4.24		0.023	0.023	5.32		0.023	0.023	5.32		0.023	0.023
Min	5.48		0.024	0.024	5.01		0.023	0.023	4.00		0.023	0.023	5.36		0.023	0.023	4.94		0.023	0.023	4.20		0.023	0.023	5.20		0.023	0.023	5.20		0.023	0.023
Max	5.60		0.026	0.026	5.18		0.026	0.026	4.14		0.025	0.025	5.51		0.025	0.025	5.49		0.025	0.025	4.30		0.025	0.025	5.32		0.025	0.025	5.32		0.025	0.025

In Service Dates For Modules	
Train 1	Train 2
Skid 1	Skid 2
Skid 3	Skid 4
Skid 5	Skid 6
Skid 7	Skid 8

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 NTU: A turbidity reading of 0.15 NTU or greater.
 Flow or O: While not

Date	Membrane LRV/Integrity/Max Turbidity																									
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8				
	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail	LRV Minimum Daily Value	Turbidity Max NTU	Integrity Pass/Fail		
1/1/2025	5.59	0.025	PASS	5.16	0.025	PASS	4.14	0.024	PASS	0.024	PASS	5.36	0.023	PASS	5.11	0.023	PASS	4.30	0.023	PASS	5.52	0.023	PASS	5.52	0.023	PASS
1/2/2025	5.60	0.025	PASS	5.13	0.025	PASS	4.12	0.024	PASS	0.024	PASS	5.51	0.023	PASS	5.37	0.023	PASS	4.28	0.023	PASS	5.51	0.023	PASS	5.51	0.024	PASS
1/3/2025	5.60	0.025	PASS	5.13	0.025	PASS	4.08	0.024	PASS	0.024	PASS	5.46	0.023	PASS	5.17	0.023	PASS	4.25	0.023	PASS	5.50	0.023	PASS	5.50	0.023	PASS
1/4/2025	5.53	0.025	PASS	5.18	0.025	PASS	4.07	0.024	PASS	0.024	PASS	5.43	0.023	PASS	5.11	0.023	PASS	4.25	0.023	PASS	5.46	0.023	PASS	5.46	0.024	PASS
1/5/2025	5.52	0.025	PASS	5.15	0.025	PASS	4.07	0.023	PASS	0.023	PASS	5.39	0.023	PASS	5.10	0.023	PASS	4.27	0.023	PASS	5.46	0.023	PASS	5.46	0.023	PASS
1/6/2025	5.57	0.025	PASS	5.15	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.38	0.023	PASS	5.16	0.023	PASS	4.25	0.023	PASS	5.44	0.023	PASS	5.44	0.023	PASS
1/7/2025	5.57	0.024	PASS	5.17	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.47	0.023	PASS	5.18	0.023	PASS	4.26	0.023	PASS	5.37	0.023	PASS	5.37	0.023	PASS
1/8/2025	5.59	0.025	PASS	5.15	0.025	PASS	4.04	0.024	PASS	0.024	PASS	5.45	0.023	PASS	5.49	0.023	PASS	4.25	0.023	PASS	5.37	0.023	PASS	5.37	0.023	PASS
1/9/2025	5.56	0.025	PASS	5.06	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.45	0.023	PASS	5.47	0.023	PASS	4.25	0.023	PASS	5.31	0.023	PASS	5.31	0.023	PASS
1/10/2025	5.59	0.025	PASS	5.05	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.48	0.023	PASS	5.47	0.023	PASS	4.26	0.023	PASS	5.31	0.023	PASS	5.31	0.023	PASS
1/11/2025	5.58	0.025	PASS	5.10	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.51	0.023	PASS	5.05	0.023	PASS	4.25	0.023	PASS	5.32	0.023	PASS	5.32	0.023	PASS
1/12/2025	5.57	0.025	PASS	5.06	0.026	PASS	4.04	0.024	PASS	0.024	PASS	5.44	0.023	PASS	5.02	0.024	PASS	4.26	0.023	PASS	5.28	0.023	PASS	5.28	0.024	PASS
1/13/2025	5.57	0.025	PASS	5.04	0.026	PASS	4.02	0.025	PASS	0.025	PASS	5.42	0.023	PASS	5.02	0.024	PASS	4.24	0.024	PASS	5.27	0.023	PASS	5.27	0.024	PASS
1/14/2025	5.56	0.026	PASS	5.04	0.026	PASS	4.00	0.025	PASS	0.025	PASS	5.42	0.023	PASS	4.99	0.025	PASS	4.23	0.024	PASS	5.25	0.024	PASS	5.25	0.024	PASS
1/15/2025	5.48	0.025	PASS	5.08	0.026	PASS	4.00	0.025	PASS	0.025	PASS	5.41	0.023	PASS	4.99	0.025	PASS	4.20	0.024	PASS	5.22	0.024	PASS	5.22	0.024	PASS
1/16/2025	5.48	0.025	PASS	5.04	0.026	PASS	4.00	0.025	PASS	0.025	PASS	5.44	0.023	PASS	5.42	0.025	PASS	4.20	0.024	PASS	5.22	0.024	PASS	5.22	0.024	PASS
1/17/2025	5.49	0.025	PASS	5.04	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.44	0.023	PASS	5.42	0.025	PASS	4.21	0.024	PASS	5.25	0.024	PASS	5.25	0.024	PASS
1/18/2025	5.49	0.025	PASS	5.02	0.025	PASS	4.02	0.024	PASS	0.024	PASS	5.46	0.023	PASS	5.42	0.024	PASS	4.23	0.023	PASS	5.27	0.023	PASS	5.27	0.023	PASS
1/19/2025	5.54	0.025	PASS	5.02	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.49	0.023	PASS	5.47	0.023	PASS	4.20	0.024	PASS	5.26	0.024	PASS	5.26	0.023	PASS
1/20/2025	5.58	0.025	PASS	5.01	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.44	0.023	PASS	5.43	0.023	PASS	4.20	0.024	PASS	5.41	0.024	PASS	5.41	0.023	PASS
1/21/2025	5.52	0.025	PASS	5.12	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.46	0.023	Maint.	5.42	0.023	PASS	4.20	0.024	PASS	5.23	0.024	PASS	5.23	0.023	PASS
1/22/2025	5.51	0.025	PASS	5.10	0.025	PASS	4.01	0.026	PASS	0.026	PASS	5.46	0.023	PASS	5.46	0.023	PASS	4.20	0.023	PASS	5.32	0.023	PASS	5.32	0.023	PASS
1/23/2025	5.52	0.025	PASS	5.09	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.45	0.023	PASS	5.48	0.023	PASS	4.22	0.023	PASS	5.27	0.023	PASS	5.27	0.023	PASS
1/24/2025	5.52	0.025	PASS	5.11	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.45	0.023	PASS	5.48	0.023	PASS	4.21	0.023	PASS	5.31	0.023	PASS	5.31	0.023	PASS
1/25/2025	5.51	0.025	PASS	5.02	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.42	0.023	PASS	5.47	0.023	PASS	4.20	0.024	PASS	5.24	0.024	PASS	5.24	0.023	PASS
1/26/2025	5.53	0.025	PASS	5.02	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.40	0.023	PASS	5.47	0.023	PASS	4.20	0.024	PASS	5.23	0.024	PASS	5.23	0.023	PASS
1/27/2025	5.53	0.025	PASS	5.02	0.025	PASS	4.05	0.024	PASS	0.024	PASS	5.39	0.023	PASS	5.44	0.023	PASS	4.26	0.023	PASS	5.23	0.023	PASS	5.23	0.023	PASS
1/28/2025	5.52	0.025	PASS	5.02	0.025	PASS	4.04	0.024	PASS	0.024	PASS	5.44	0.023	PASS	5.44	0.023	PASS	4.27	0.023	PASS	5.23	0.023	PASS	5.23	0.024	PASS
1/29/2025	5.50	0.025	PASS	5.02	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.51	0.023	PASS	5.29	0.023	PASS	4.25	0.023	PASS	5.20	0.024	PASS	5.20	0.024	PASS
1/30/2025	5.50	0.025	PASS	5.02	0.025	PASS	4.03	0.024	PASS	0.024	PASS	5.41	0.023	PASS	5.29	0.023	PASS	4.24	0.024	PASS	5.23	0.024	PASS	5.23	0.023	PASS
1/31/2025	5.52	0.024	PASS	5.05	0.025	PASS	4.04	0.023	PASS	0.023	PASS	5.40	0.023	PASS	5.47	0.023	PASS	4.23	0.023	PASS	5.30	0.023	PASS	5.30	0.023	PASS
Avg	5.54	0.025		5.08	0.025		4.04	0.024		0.024		5.44	0.023		5.28	0.023		4.24	0.023		5.32	0.023		5.32	0.023	
Min	5.48	0.024		5.01	0.025		4.00	0.023		0.023		5.36	0.023		4.94	0.023		4.20	0.023		5.20	0.023		5.20	0.024	
Max	5.60	0.026		5.18	0.026		4.14	0.026		0.026		5.51	0.025		5.49	0.025		4.30	0.025		5.52	0.024		5.52	0.024	

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

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 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.
 Max Air-Hold Test Result: While not shown on this page, an AHT result of 0.84 PSI/Min or greater.

Treatment Chemical Dosages

Date	Sodium Hypochlorite					Phosphoric Acid			Hydrofluorosilicic Acid		
	Treated Water	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					PO4			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	Added	Lab	
1/1/2025	6.8	0.38	0.31	0.79	1.12	0.99	3.30	0.08	0.50	0.68	
1/2/2025	6.6	0.47	0.35	0.75	1.12	1.01	3.30	0.08	0.50	0.68	
1/3/2025	6.4	0.47	0.36	0.77	1.12	1.00	3.25	0.09	0.50	0.68	
1/4/2025	6.6	0.50	0.38	0.77	1.15	1.03	3.24	0.09	0.50	0.69	
1/5/2025	6.7	0.46	0.39	0.72	1.12	1.02	3.24	0.09	0.50	0.68	
1/6/2025	6.3	0.45	0.37	0.72	1.09	0.99	3.24	0.09	0.50	0.68	
1/7/2025	6.6	0.43	0.36	0.75	1.10	0.99	3.24	0.09	0.50	0.68	
1/8/2025	6.7	0.40	0.34	0.77	1.11	0.99	3.24	0.08	0.50	0.67	
1/9/2025	6.4	0.51	0.36	0.71	1.11	1.00	3.24	0.09	0.50	0.66	
1/10/2025	6.3	0.45	0.37	0.75	1.09	0.98	3.24	0.09	0.50	0.66	
1/11/2025	6.5	0.41	0.35	0.80	1.09	1.00	3.24	0.09	0.50	0.68	
1/12/2025	6.4	0.44	0.35	0.75	1.07	1.00	3.24	0.09	0.50	0.67	
1/13/2025	6.4	0.42	0.34	0.75	1.10	0.99	3.24	0.10	0.50	0.70	
1/14/2025	6.4	0.39	0.33	0.79	1.09	0.99	3.24	0.09	0.50	0.67	
1/15/2025	6.6	0.41	0.32	0.81	1.10	0.99	3.24	0.09	0.50	0.67	
1/16/2025	6.6	0.47	0.34	0.76	1.13	1.02	3.24	0.09	0.50	0.68	
1/17/2025	6.6	0.48	0.38	0.74	1.11	1.02	3.24	0.09	0.50	0.67	
1/18/2025	6.6	0.46	0.38	0.74	1.10	1.01	3.24	0.08	0.50	0.67	
1/19/2025	6.5	0.48	0.39	0.74	1.12	1.01	3.23	0.09	0.50	0.66	
1/20/2025	7.2	0.45	0.39	0.70	1.10	1.03	3.22	0.09	0.50	0.67	
1/21/2025	6.6	0.44	0.38	0.75	1.06	0.98	3.22	0.09	0.51	0.67	
1/22/2025	8.5	0.48	0.39	0.60	1.11	1.02	3.22	0.09	0.52	0.68	
1/23/2025	7.1	0.49	0.41	0.60	1.08	1.00	3.22	0.09	0.52	0.69	
1/24/2025	7.2	0.41	0.38	0.60	1.07	1.00	3.22	0.09	0.52	0.68	
1/25/2025	7.1	0.44	0.37	0.62	1.09	0.99	3.22	0.08	0.52	0.66	
1/26/2025	7.7	0.45	0.38	0.62	1.09	1.01	3.22	0.08	0.52	0.67	
1/27/2025	7.2	0.44	0.37	0.62	1.09	1.01	3.22	0.09	0.52	0.69	
1/28/2025	7.3	0.45	0.38	0.60	1.09	1.01	3.23	0.09	0.52	0.68	
1/29/2025	7.2	0.52	0.39	0.60	1.10	1.02	3.23	0.09	0.52	0.68	
1/30/2025	7.1	0.49	0.42	0.56	1.05	1.05	3.23	0.09	0.52	0.67	
1/31/2025	7.4	0.49	0.42	0.58	1.08	1.01	3.23	0.09	0.52	0.68	
Avg	6.8	0.45	0.37	0.70	1.10	1.00	3.24	0.09	0.51	0.68	
Min	6.3	0.38	0.31	0.56	1.05	0.98	3.22	0.08	0.50	0.66	
Max	8.5	0.52	0.42	0.81	1.15	1.05	3.30	0.10	0.52	0.70	

Distribution System Monitoring
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)

WSSN:	0072 Akron			0390 Bangor Twp.			0400 Bangor Monitor Dist.			0470 Bay City						0485 Bay County				0517 Beaver Rd	0518 Beaver Twp	2180 Essexville		
	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32
1/1/2025						0.47	0.80	0.81	0.75	1.11	1.07	0.79												0.89
1/2/2025																								
1/3/2025																								
1/4/2025																								
1/5/2025																								
1/6/2025																								
1/7/2025	0.33	0.48	0.38	0.60	0.81			1.18	0.70	0.75	0.98	0.48	1.10	0.74	0.66	0.78	0.71	0.73	0.65		0.42			0.89
1/8/2025							0.94	1.03	0.49	0.44	0.56	0.43	1.11	0.64						0.76				
1/9/2025																								
1/10/2025																								
1/11/2025																								
1/12/2025																								
1/13/2025																								
1/14/2025		0.83	0.63					0.88	0.60	0.79	0.82	0.39	0.72	0.76	0.77	0.71	0.79	0.75	0.51					1.23
1/15/2025																								
1/16/2025																								
1/17/2025																								
1/18/2025																								
1/19/2025																								
1/20/2025								0.80	0.84	0.93	0.46	0.96												
1/21/2025								0.93	0.86	0.87	0.96													1.04
1/22/2025																								
1/23/2025																								
1/24/2025																								
1/25/2025																								
1/26/2025																								
1/27/2025																								
1/28/2025		0.78	0.61	0.64	0.95			0.79	0.60	0.84	0.92	0.48	0.99	0.89								0.43		
1/29/2025																								
1/30/2025																								
1/31/2025																								
Average	0.33			0.67			0.74				0.79							0.71		0.76		0.43		1.01
Min	0.33			0.38			0.47				0.39							0.51		0.76		0.42		0.89
Max	0.33			0.95			0.94				1.18							0.79		0.76		0.43		1.23

MONITORING STATION ADDRESSES

- | | | |
|---|--|---|
| <ol style="list-style-type: none"> 1. Sample station at corner of 5758 M-25 & R 3. Bangor Fire Station, 3921 Wheeler 4. BCDWS Admin. Bldg. 3933 Patterson Rd. 5. 7-11, 3543 S. Old Kawkawlin Rd. 6. Admiral Petroleum, 314 S Euclid Ave. 7. Sequin Lumber, 3881 Euclid Ave 9. Top Gun Liquor, 2981 Midland Rd 10. Little Caesars, 3475 E North Union Rd | <ol style="list-style-type: none"> 11. Number 1 Fire Station, 1401 Center Ave 12. Number 2 Fire Station, 1000 Fremont Ave 13. Jack's Fruit Market, 1000 Salzburg Ave 14. Number 4 Fire Station, 212 S. Dean St 15. Number 5 Fire Station, 1209 Smith St 16. Bay City Hall, 301 Washington Ave 17. Skipper Buds Marina, 1809 S Water St 18. Bay Valley Animal Hospital 6015 WS Saginaw Rd | <ol style="list-style-type: none"> 19. Dore's M-84 Party Store, 6183 WS Saginaw Rd 20. Pump Station #13, 6000 WS Saginaw Rd 23. Rail Trail Pump Station, 366 N. Tuscola Rd. 24. Little Learners Daycare, 1694 Cass Ave. 26. Wieland Contracting, 2443 S Mackinaw Rd 29. Sample Station, 2515 S. 11 Mile Rd 30. Sample Station, 340 W. Beaver Rd 32. Essexville City Hall, 1107 Woodside Ave |
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Distribution System Bacteriological

Water Supplier Bacteriological Analysis Report

Name of Water Supply
Bay Area Water Treatment Plant

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
Bureau of Environmental Health
Water Supplier Bacteriological Analysis Report

January, 2025

COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				NUMBER REPEAT SAMPLES
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	
Tuscola	Akron	0072	0.33	1	1	0	0
BAY	Bangor Township	0390	0.67	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.74	3	3	0	0
BAY	Bay City	0470	0.79	30	42	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	9	10	0	0
BAY	Beaver Road Area	0517	0.76	1	1	0	0
BAY	Beaver Township	0518	0.43	2	2	0	0
BAY	Essexville	2180	1.01	4	4	0	0
BAY	Fraser Township	2465	0.67	2	2	0	0
BAY	Hampton Township	2960	0.48	10	10	0	0
BAY	Kawkawlin Township	3565	0.80	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.68	2	2	0	0
BAY	Linwood Metro Water District	3910	0.77	1	1	0	0
BAY	Merritt Township	4280	0.59	2	2	0	0
BAY	Monitor Township	4440	0.66	6	6	0	0
BAY	City of Pinconning	5330	0.54	2	2	0	0
BAY	Pinconning Township	5335	0.58	2	2	0	0
BAY	Portsmouth Township	5540	0.62	1	1	0	0
BAY	Williams Township	7125	0.68	6	6	0	0
Tuscola	Wisner	7134	0.41	1	1	0	0

Average Free Cl2 Residual of All Distribution Sites 98 mg/L

1. Total distribution samples 111
2. Total distribution samples with detectable free cl2 residual 111
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%