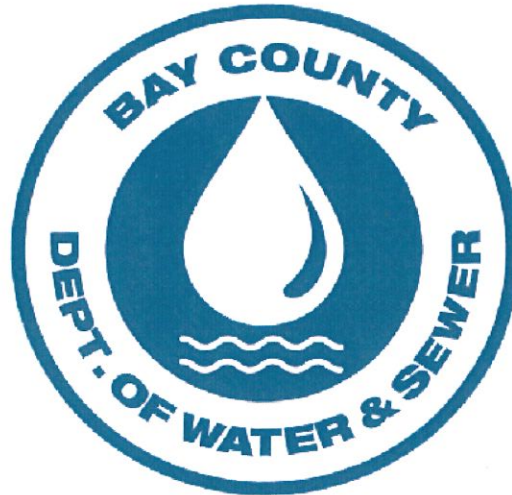


Bay Area WTP

Monthly Operations Report



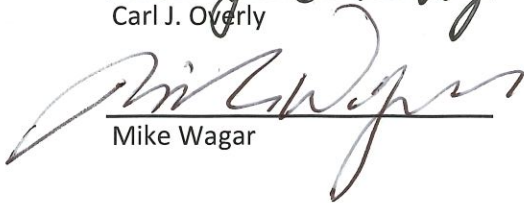
March, 2025

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

March, 2025
Month, Year

F-1
Water Plant Classification

Bay
County

Carl J. Overly
Operator-in-charge

F-1, S-3, D-4
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>7.5</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>17.23</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>29.99</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>2,692</u>	Gallons	Estimated Supply:	<u>52.3</u>	days
Caustic Soda on hand:	<u>1,355</u>	Gallons	Estimated Supply:	<u>92.8</u>	days
Corrosion Inhibitor on hand:	<u>867</u>	Gallons	Estimated Supply:	<u>41.0</u>	days
Hydrofluosilicic Acid on hand:	<u>607</u>	Gallons	Estimated Supply:	<u>40.2</u>	days
Aluminum Chlorohydrate on hand:	<u>689</u>	Gallons	Estimated Supply:	<u>219.4</u>	days
Sulfuric Acid on hand:	<u>433</u>	Gallons	Estimated Supply:	<u>216.4</u>	days
Sodium Bisulfite on hand:	<u>929</u>	Gallons	Estimated Supply:	<u>320.2</u>	days
Citric Acid on hand:	<u>1,536</u>	Gallons	Estimated Supply:	<u>122.9</u>	days
Cost of All Chemicals per Million Gallons:	<u>92.59</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>1,031.93</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>18.33</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

From 3/10 to 3/14 the residual room under went some construction. Piping for the Waste Wash Water and Clarified Water systems was replaced and resupported. Waste Wash Water piping was slightly reconfigured and a static mixer was installed.

The clarified water system was completely taken down to support this work.

During the shutdown no clarified water was returned to the head of the plant, everything was pumped to the Lagoons.

The clarified system was returned to service on 3/14.

The valve positioner on Skid 4 experienced a failure resulting in the skid being taken out of service for a few days.

The failed positioner was completely replaced with a new type from a different manufacture, VRC to Westlock.

Clairified flow total on page 3 and Clairified Turbidity on page 6 for 3/11 thru 3/13 removed so as not to effect calculated monthly average.

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	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
3/1/2025	0.00	7.55	7.55	0.20	0.08	7.00	3.44	3.04	6.49
3/2/2025	0.00	7.26	7.26	0.17	0.08	7.49	3.45	3.16	6.61
3/3/2025	0.00	7.52	7.52	0.23	0.08	7.16	3.36	3.06	6.42
3/4/2025	0.00	6.79	6.79	0.15	0.10	6.66	3.19	2.88	6.07
3/5/2025	0.00	6.36	6.36	0.17	0.08	6.56	3.20	2.83	6.03
3/6/2025	0.00	6.43	6.43	0.21	0.08	6.97	3.28	2.90	6.17
3/7/2025	0.00	6.79	6.79	0.20	0.08	6.94	3.28	2.91	6.19
3/8/2025	0.00	6.97	6.97	0.17	0.08	7.02	3.31	2.93	6.24
3/9/2025	0.00	6.92	6.92	0.21	0.07	6.74	3.29	2.97	6.26
3/10/2025	0.00	7.09	7.09	0.05	0.19	6.82	3.17	2.85	6.02
3/11/2025	0.00	6.88	6.88		0.24	6.65	3.13	2.79	5.92
3/12/2025	0.00	6.90	6.90		0.25	6.61	3.18	2.81	5.99
3/13/2025	0.00	6.63	6.63		0.25	6.65	3.24	2.79	6.03
3/14/2025	0.00	6.58	6.58	0.14	0.12	6.42	3.13	2.67	5.79
3/15/2025	0.00	6.64	6.64	0.18	0.08	6.61	3.21	2.73	5.94
3/16/2025	0.00	6.45	6.45	0.17	0.08	6.67	3.19	2.75	5.94
3/17/2025	0.00	6.75	6.75	0.17	0.08	6.49	3.04	2.70	5.74
3/18/2025	0.00	7.17	7.17	0.19	0.08	6.35	3.08	2.69	5.77
3/19/2025	0.00	6.47	6.47	0.17	0.08	6.63	3.20	2.73	5.93
3/20/2025	0.00	5.97	5.97	0.15	0.08	6.32	3.07	2.65	5.72
3/21/2025	0.00	5.94	5.94	0.20	0.08	6.74	3.10	2.77	5.87
3/22/2025	0.00	6.07	6.07	0.18	0.08	6.51	3.13	2.80	5.92
3/23/2025	0.00	6.92	6.92	0.17	0.08	6.72	3.15	2.82	5.97
3/24/2025	0.00	6.96	6.96	0.16	0.08	6.27	3.01	2.69	5.70
3/25/2025	0.00	6.91	6.91	0.17	0.08	6.51	3.13	2.70	5.82
3/26/2025	0.00	6.53	6.53	0.17	0.08	6.32	2.99	2.65	5.64
3/27/2025	0.00	6.29	6.29	0.17	0.08	6.55	3.13	2.71	5.84
3/28/2025	0.00	6.38	6.38	0.18	0.08	6.25	3.05	2.70	5.74
3/29/2025	0.00	6.56	6.56	0.17	0.08	6.66	3.11	2.78	5.89
3/30/2025	0.00	6.25	6.25	0.16	0.08	6.55	3.05	2.73	5.78
3/31/2025	0.00	6.53	6.53	0.17	0.08	6.32	3.04	2.71	5.75
Total	0.00	207.48	207.48	4.84	3.09	206.16	98.31	86.88	185.19
Avg	0.00	6.69	6.69	0.17	0.10	6.65	3.17	2.80	5.97
Min	0.00	5.94	5.94	0.05	0.07	6.25	2.99	2.65	5.64
Max	0.00	7.55	7.55	0.23	0.25	7.49	3.45	3.16	6.61

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	
3/1/2025	2.0	8.00	0.24	0.41	0.09	0.43	Negative	Negative
3/2/2025	2.0	8.01	0.36	0.71	0.11	0.42	Negative	Negative
3/3/2025	1.9	8.01	0.25	0.51	0.10	0.39	Negative	Negative
3/4/2025	2.0	8.02	0.18	0.21	0.10	0.37	Negative	Negative
3/5/2025	2.2	8.03	0.16	0.18	0.10	0.35	Negative	Negative
3/6/2025	2.0	8.02	0.14	0.19	0.09	0.34	Negative	Negative
3/7/2025	2.0	8.03	0.20	0.43	0.08	0.35	Negative	Negative
3/8/2025	2.0	8.03	0.23	0.28	0.08	0.34	Negative	Negative
3/9/2025	2.1	8.02	0.20	0.40	0.08	0.41	Negative	Negative
3/10/2025	2.3	8.02	0.19	0.23	0.08	0.41	Negative	Negative
3/11/2025	2.2	8.01	0.18	0.24	0.08	0.40	Negative	Negative
3/12/2025	2.1	8.02	0.13	0.15	0.08	0.37	Negative	Negative
3/13/2025	2.2	8.02	0.14	0.18	0.08	0.37	Negative	Negative
3/14/2025	2.5	8.03	0.13	0.19	0.08	0.33	Negative	Negative
3/15/2025	3.1	8.04	0.19	0.24	0.08	0.30	Negative	Negative
3/16/2025	3.2	8.03	0.15	0.17	0.08	0.34	Negative	Negative
3/17/2025	3.2	8.03	0.16	0.22	0.08	0.33	Negative	Negative
3/18/2025	3.3	8.03	0.14	0.16	0.08	0.33	Negative	Negative
3/19/2025	3.4	8.03	0.14	0.15	0.08	0.34	Negative	Negative
3/20/2025	3.3	8.02	0.15	0.78	0.09	0.37	Negative	Negative
3/21/2025	3.0	8.04	0.25	0.52	0.09	0.30	Negative	Negative
3/22/2025	3.3	8.03	0.27	0.37	0.09	0.31	Negative	Negative
3/23/2025	3.1	8.02	0.26	0.40	0.08	0.39	Negative	Negative
3/24/2025	3.3	8.03	0.21	0.35	0.08	0.34	Negative	Negative
3/25/2025	3.2	8.04	0.21	0.29	0.09	0.28	Negative	Negative
3/26/2025	3.2	8.04	0.22	0.30	0.09	0.32	Negative	Negative
3/27/2025	2.9	8.03	0.15	0.20	0.08	0.36	Negative	Negative
3/28/2025	3.1	8.03	0.13	0.15	0.09	0.36	Negative	Negative
3/29/2025	3.4	8.04	0.18	0.28	0.07	0.36	Negative	Negative
3/30/2025	3.6	8.02	1.64	4.30	0.07	0.38	Negative	Negative
3/31/2025	3.5	8.00	1.72	3.54	0.07	0.38	Negative	Negative
Avg	2.7	8.03	0.29	0.54	0.08	0.36	NA	NA
Min	1.9	8.00	0.13	0.15	0.07	0.28	NA	NA
Max	3.6	8.04	1.72	4.30	0.11	0.43	NA	NA

F⁻ Ratio, Raw/Tap:

12.2

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				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	
3/1/2025	2.1	7.70	3.35	0.70	0.72	0.99	96.00	0	78	9	12	76	12.7	214	-0.93	0.71	0.39	Negative	Negative
3/2/2025	2.1	7.66	3.35	0.74		1.01	100.00	0	75	10	13	94	13.0	222	-0.89	0.74	0.44	Negative	Negative
3/3/2025	2.0	7.65	3.41	0.71		1.00	98.00	0	74	9	12	78	12.8	219	-0.99	0.76	0.42	Negative	Negative
3/4/2025	2.0	7.61	3.41	0.71		1.00	98.00	0	76	10	13	78	13.3	223	-1.02	0.73	0.44	Negative	Negative
3/5/2025	2.0	7.63	3.36	0.72	0.70	0.99	102.00	0	80	9	13	76	12.6	221	-0.99	0.71	0.41	Negative	Negative
3/6/2025	2.1	7.65	3.36	0.70		0.99	100.00	0	78	10	12	74	12.7	223	-0.99	0.83	0.42	Negative	Negative
3/7/2025	2.0	7.66	3.34	0.68		1.00	100.00	0	78	9	12	76	13.1	220	-0.97	0.75	0.40	Negative	Negative
3/8/2025	2.1	7.65	3.34	0.70		1.01	100.00	0	77	9	12	78	12.8	222	-0.98	0.75	0.40	Negative	Negative
3/9/2025	2.1	7.64	3.34	0.68	0.66	1.01	100.00	0	77	9	10	78	12.1	221	-0.98	0.93	0.38	Negative	Negative
3/10/2025	2.2	7.61	3.33	0.70		1.01	102.00	0	70	10	13	78	13.1	216	-1.05	0.73	0.47	Negative	Negative
3/11/2025	2.2	7.62	3.33	0.68		1.00	98.00	0	77	10	12	78	12.8	219	-1.00	0.81	0.42	Negative	Negative
3/12/2025	2.2	7.65	3.33	0.68		1.00	96.00	0	78	11	14	78	13.4	218	-0.97	0.76	0.47	Negative	Negative
3/13/2025	2.1	7.65	3.33	0.69	0.69	0.99	100.00	0	77	10	12	82	13.3	214	-0.94	0.79	0.41	Negative	Negative
3/14/2025	2.3	7.63	3.33	0.69		0.99	98.00	0	73	9	12	76	12.9	218	-1.02	0.78	0.43	Negative	Negative
3/15/2025	2.5	7.61	3.34	0.68		0.99	98.00	0	74	9	12	78	12.5	218	-1.02	0.77	0.42	Negative	Negative
3/16/2025	2.6	7.59	3.34	0.69		1.00	98.00	0	73	10	11	76	12.4	219	-1.05	0.86	0.42	Negative	Negative
3/17/2025	2.9	7.60	3.34	0.69	0.66	1.00	98.00	0	73	10	11	76	12.8	219	-1.04	0.86	0.42	Negative	Negative
3/18/2025	3.1	7.61	3.33	0.69		0.99	98.00	0	72	10	11	76	13.4	216	-1.02	0.88	0.43	Negative	Negative
3/19/2025	3.2	7.56	3.34	0.69		1.00	96.00	0	76	8	13	74	9.9	214	-1.06	0.62	0.40	Negative	Negative
3/20/2025	3.2	7.59	3.33	0.69		1.01	100.00	0	77	9	11	76	12.8	218	-1.01	0.81	0.38	Negative	Negative
3/21/2025	3.0	7.66	3.33	0.71	0.69	1.02	98.00	0	78	9	10	76	12.7	221	-0.95	0.91	0.37	Negative	Negative
3/22/2025	3.3	7.60	3.32	0.70		1.00	98.00	0	77	9	10	78	12.6	221	-0.99	0.92	0.37	Negative	Negative
3/23/2025	3.3	7.65	3.32	0.70		1.01	98.00	0	77	9	12	76	13.3	221	-0.95	0.74	0.40	Negative	Negative
3/24/2025	3.3	7.66	3.33	0.71		1.01	98.00	0	77	9	11	76	12.0	221	-0.94	0.82	0.39	Negative	Negative
3/25/2025	3.3	7.68	3.32	0.73	0.69	1.00	100.00	0	78	10	11	78	11.5	233	-0.91	0.89	0.40	Negative	Negative
3/26/2025	3.4	7.67	3.33	0.72		1.00	98.00	0	78	10	13	76	12.6	232	-0.93	0.76	0.43	Negative	Negative
3/27/2025	3.4	7.66	3.33	0.70		1.01	98.00	0	76	10	12	74	13.3	234	-0.96	0.83	0.43	Negative	Negative
3/28/2025	3.5	7.60	3.33	0.70		1.00	96.00	0	72	10	10	76	13.8	230	-1.03	0.95	0.41	Negative	Negative
3/29/2025	3.5	7.54	3.33	0.70	0.69	1.00	98.00	0	74	10	11	76	13.2	229	-1.08	0.88	0.42	Negative	Negative
3/30/2025	3.5	7.53	3.34	0.70		1.01	96.00	0	73	10	11	78	13.0	232	-1.08	0.90	0.43	Negative	Negative
3/31/2025	3.5	7.56	3.32	0.70		1.00	98.00	0	74	10	13	78	13.5	230	-1.04	0.77	0.46	Negative	Negative
Avg	2.7	7.63	3.34	0.70		0.69	1.00	98.45	0	76	9	12	77	12.8	222	-0.99	0.81	0.41	NA
Min	2.0	7.53	3.32	0.68	0.66	0.99	96.00	0	70	8	10	74	9.9	214	-1.08	0.62	0.37	NA	NA
Max	3.5	7.70	3.41	0.74	0.72	1.02	102.00	0	80	11	14	94	13.8	234	-0.89	0.95	0.47	NA	NA

Plant Tap Disinfection Byproduct Monitoring - Results in ppb			
Date	Total Trihalomethanes - TTHM		
	Result	LRAA	OEL
3/4/25	12	14	12

Date	Turbidity									
	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
3/1/2025	0.24	0.41	1.27	0.16	0.022	0.027	96	0	0.0	0.023
3/2/2025	0.36	0.71	1.33	0.22	0.022	0.023	96	0	0.0	0.023
3/3/2025	0.25	0.51	1.93	0.24	0.022	0.023	96	0	0.0	0.023
3/4/2025	0.18	0.21	1.76	0.21	0.022	0.030	96	0	0.0	0.023
3/5/2025	0.16	0.18	1.33	0.18	0.022	0.023	96	0	0.0	0.023
3/6/2025	0.14	0.19	1.48	0.16	0.022	0.023	96	0	0.0	0.023
3/7/2025	0.20	0.43	2.75	0.16	0.022	0.030	96	0	0.0	0.023
3/8/2025	0.23	0.28	0.90	0.17	0.022	0.044	96	0	0.0	0.023
3/9/2025	0.20	0.40	0.98	0.18	0.021	0.032	96	0	0.0	0.023
3/10/2025	0.19	0.23	1.21	0.17	0.022	0.023	96	0	0.0	0.023
3/11/2025	0.18	0.24		0.17	0.021	0.027	96	0	0.0	0.023
3/12/2025	0.13	0.15		0.15	0.021	0.023	96	0	0.0	0.023
3/13/2025	0.14	0.18		0.14	0.021	0.023	96	0	0.0	0.022
3/14/2025	0.13	0.19	1.49	0.14	0.022	0.036	96	0	0.0	0.022
3/15/2025	0.19	0.24	0.65	0.15	0.022	0.023	96	0	0.0	0.022
3/16/2025	0.15	0.17	0.63	0.15	0.021	0.023	96	0	0.0	0.022
3/17/2025	0.16	0.22	0.59	0.16	0.022	0.023	96	0	0.0	0.023
3/18/2025	0.14	0.16	0.60	0.15	0.022	0.032	96	0	0.0	0.023
3/19/2025	0.14	0.15	0.46	0.14	0.021	0.025	96	0	0.0	0.022
3/20/2025	0.15	0.78	0.50	0.15	0.021	0.028	96	0	0.0	0.023
3/21/2025	0.25	0.52	0.57	0.17	0.022	0.047	96	0	0.0	0.022
3/22/2025	0.27	0.37	0.70	0.20	0.022	0.025	96	0	0.0	0.023
3/23/2025	0.26	0.40	0.70	0.22	0.022	0.027	96	0	0.0	0.023
3/24/2025	0.21	0.35	0.85	0.21	0.022	0.028	96	0	0.0	0.023
3/25/2025	0.21	0.29	0.66	0.21	0.023	0.023	96	0	0.0	0.023
3/26/2025	0.22	0.30	0.70	0.22	0.023	0.023	96	0	0.0	0.023
3/27/2025	0.15	0.20	0.70	0.19	0.022	0.024	96	0	0.0	0.023
3/28/2025	0.13	0.15	0.65	0.17	0.022	0.030	96	0	0.0	0.023
3/29/2025	0.18	0.28	0.89	0.15	0.021	0.025	96	0	0.0	0.022
3/30/2025	1.64	4.30	6.92	0.38	0.022	0.023	96	0	0.0	0.022
3/31/2025	1.72	3.54	0.53	0.72	0.022	0.024	96	0	0.0	0.023
Avg	0.29	0.54	1.20	0.20	0.022	0.027	96	0	0.0	0.023
Min	0.13	0.15	0.46	0.14	0.021	0.023	96	0	0.0	0.022
Max	1.72	4.30	6.92	0.72	0.023	0.047	96	0	0.0	0.023

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

Note: The clarified water system was taken down on 3/10 to allow for pipe and pipe support replacement.

During the shutdown no clarified water was returned to the head of the plant, everything was pumped to the Lagoons.

The clarified system was returned to service on 3/14.

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	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum	Minimum	Max	Maximum
	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU
3/1/2025	5.52	PASS	0.025	4.94	PASS	0.025	5.49	PASS	0.025	4.01	PASS	0.024	5.37	PASS	0.023	5.03	PASS	0.024	4.25	PASS	0.024	5.37	PASS	0.023
3/2/2025	5.54	PASS	0.025	4.93	PASS	0.025	5.49	PASS	0.025	4.01	PASS	0.024	5.37	PASS	0.023	5.02	PASS	0.023	4.25	PASS	0.024	5.32	PASS	0.023
3/3/2025	5.54	PASS	0.025	5.00	PASS	0.025	5.49	PASS	0.024	4.13	PASS	0.024	5.36	PASS	0.023	5.39	PASS	0.023	4.27	PASS	0.024	5.34	PASS	0.023
3/4/2025	5.54	PASS	0.025	4.93	PASS	0.025	5.47	PASS	0.024	4.12	PASS	0.024	5.55	PASS	0.023	4.96	PASS	0.024	4.27	PASS	0.024	5.31	PASS	0.023
3/5/2025	5.54	PASS	0.025	4.94	PASS	0.025	5.47	PASS	0.024	4.10	PASS	0.024	5.58	PASS	0.023	4.96	PASS	0.024	4.26	PASS	0.024	5.29	PASS	0.023
3/6/2025	5.58	PASS	0.025	4.93	PASS	0.025	5.52	PASS	0.025	4.08	PASS	0.024	5.43	PASS	0.023	5.35	PASS	0.024	4.28	PASS	0.024	5.27	PASS	0.023
3/7/2025	5.59	PASS	0.025	4.93	PASS	0.025	5.50	PASS	0.024	4.08	PASS	0.024	5.43	PASS	0.023	5.34	PASS	0.025	4.27	PASS	0.024	5.27	PASS	0.024
3/8/2025	5.61	PASS	0.025	4.99	PASS	0.025	5.50	PASS	0.024	4.06	PASS	0.024	5.50	PASS	0.023	5.27	PASS	0.024	4.30	PASS	0.024	5.34	PASS	0.024
3/9/2025	5.56	PASS	0.025	5.00	PASS	0.025	5.50	PASS	0.024	4.06	PASS	0.024	5.45	PASS	0.023	5.27	PASS	0.027	4.25	PASS	0.024	5.37	PASS	0.023
3/10/2025	5.55	PASS	0.025	5.00	PASS	0.025	5.50	PASS	0.024	4.06	PASS	0.024	5.45	PASS	0.023	5.13	PASS	0.024	4.24	PASS	0.024	5.37	PASS	0.023
3/11/2025	5.56	PASS	0.025	5.00	PASS	0.025	5.52	PASS	0.025	4.06	PASS	0.024	5.42	PASS	0.023	5.13	PASS	0.027	4.24	PASS	0.024	5.32	PASS	0.023
3/12/2025	5.54	PASS	0.025	4.99	PASS	0.025	5.46	PASS	0.024	4.06	PASS	0.024	5.42	PASS	0.023	5.43	PASS	0.024	4.28	PASS	0.024	5.28	PASS	0.023
3/13/2025	5.54	PASS	0.025	5.04	PASS	0.025	5.45	PASS	0.025	4.07	PASS	0.024	5.47	PASS	0.025	5.43	PASS	0.024	4.29	PASS	0.024	5.28	PASS	0.023
3/14/2025	5.54	PASS	0.025	5.00	PASS	0.025	5.49	PASS	0.024	4.07	PASS	0.024	5.58	PASS	0.023	5.24	PASS	0.023	4.30	PASS	0.024	5.34	PASS	0.023
3/15/2025	5.55	PASS	0.025	4.99	PASS	0.025	5.50	PASS	0.024	4.07	PASS	0.025	5.42	PASS	0.024	5.23	PASS	0.023	4.29	PASS	0.024	5.39	PASS	0.024
3/16/2025	5.55	PASS	0.025	4.99	PASS	0.025	5.54	PASS	0.025	4.04	PASS	0.025	5.41	PASS	0.023	5.12	PASS	0.025	4.19	PASS	0.024	5.40	PASS	0.023
3/17/2025	5.60	PASS	0.025	5.00	PASS	0.025	5.50	PASS	0.025	4.04	PASS	0.025	5.41	PASS	0.023	4.97	PASS	0.024	4.19	PASS	0.024	5.38	PASS	0.023
3/18/2025	5.61	PASS	0.025	5.09	PASS	0.025	5.50	PASS	0.025	4.03	PASS	0.024	5.44	PASS	0.023	4.97	PASS	0.023	4.24	PASS	0.024	5.34	PASS	0.023
3/19/2025	5.55	PASS	0.025	4.99	PASS	0.025	5.48	PASS	0.025	4.03	PASS	0.024	5.51	PASS	0.023	5.28	PASS	0.023	4.25	PASS	0.023	5.32	PASS	0.023
3/20/2025	5.55	PASS	0.025	4.99	PASS	0.025	5.49	PASS	0.025	4.03	PASS	0.026	5.48	PASS	0.023	5.27	PASS	0.023	4.24	PASS	0.023	5.38	PASS	0.023
3/21/2025	5.55	PASS	0.025	5.00	PASS	0.026	5.48	PASS	0.030	4.03	PASS	0.024	5.47	PASS	0.023	5.28	PASS	0.023	4.23	PASS	0.024	5.31	PASS	0.023
3/22/2025	5.55	PASS	0.025	5.00	PASS	0.025	5.50	PASS	0.024	4.06	PASS	0.025	5.50	PASS	0.023	5.45	PASS	0.024	4.26	PASS	0.024	5.31	PASS	0.023
3/23/2025	5.54	PASS	0.025	5.07	PASS	0.025	5.51	PASS	0.026	4.04	PASS	0.025	5.54	PASS	0.023	4.99	PASS	0.024	4.26	PASS	0.024	5.34	PASS	0.024
3/24/2025	5.54	PASS	0.025	5.06	PASS	0.026	5.54	PASS	0.025	4.04	PASS	0.025	5.44	PASS	0.023	4.98	PASS	0.024	4.26	PASS	0.024	5.36	PASS	0.024
3/25/2025	5.55	PASS	0.026	5.05	PASS	0.026	5.54	PASS	0.025	4.03	PASS	0.025	5.46	PASS	0.036	5.35	PASS	0.024	4.28	PASS	0.025	5.38	PASS	0.024
3/26/2025	5.59	PASS	0.025	5.05	PASS	0.026	5.50	PASS	0.025	4.04	PASS	0.025	5.46	PASS	0.033	5.35	PASS	0.024	4.24	PASS	0.024	5.32	PASS	0.024
3/27/2025	5.59	PASS	0.025	5.07	PASS	0.025	5.49	PASS	0.024	4.05	PASS	0.025	5.43	PASS	0.025	5.27	PASS	0.023	4.27	PASS	0.024	5.31	PASS	0.024
3/28/2025	5.58	PASS	0.025	5.09	PASS	0.026	5.49	PASS	0.024	4.02	PASS	0.024	5.53	PASS	0.023	5.00	PASS	0.024	4.26	PASS	0.024	5.31	PASS	0.023
3/29/2025	5.58	PASS	0.025	5.08	PASS	0.025	5.48	PASS	0.025	Skid out service for maintenance due to a failed flow control valve			5.53	PASS	0.023	5.00	PASS	0.023	4.26	PASS	0.024	5.32	PASS	0.023
3/30/2025	5.56	PASS	0.025	5.01	PASS	0.025	5.53	PASS	0.025				5.52	PASS	0.024	5.14	PASS	0.024	4.17	PASS	0.024	5.27	PASS	0.024
3/31/2025	5.57	PASS	0.025	5.05	PASS	0.025	5.53	PASS	0.027				5.47	PASS	0.023	5.23	PASS	0.024	4.24	PASS	0.024	5.36	PASS	0.024
Avg	5.56		0.025	5.01		0.025	5.50		0.025	4.05		0.024	5.46		0.024	5.19		0.024	4.25		0.024	5.33		0.023
Min	5.52		0.025	4.93		0.025	5.45		0.024	4.01		0.024	5.36		0.023	4.96		0.023	4.17		0.023	5.27		0.023
Max	5.61		0.026	5.09		0.026	5.54		0.030	4.13		0.026	5.58		0.036	5.45		0.027	4.30		0.025	5.40		0.024

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.

In Service Dates For Modules			
Train 1		Train 2	
Skid 1	8/2024	12/2023	Skid 2
Skid 3	11/2023	8/2015	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					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 - Mem Feed	Added	Lab
3/1/2025	7.0	0.43	0.35	0.67	1.09	0.99	3.32	3.35	0.09	0.53	0.70
3/2/2025	7.5	0.42	0.35	0.67	1.10	1.01	3.32	3.35	0.11	0.53	0.74
3/3/2025	7.2	0.39	0.34	0.70	1.08	1.00	3.31	3.41	0.10	0.51	0.71
3/4/2025	6.7	0.37	0.32	0.70	1.09	1.00	3.19	3.41	0.10	0.51	0.71
3/5/2025	6.6	0.35	0.30	0.74	1.08	0.99	3.19	3.36	0.10	0.51	0.72
3/6/2025	7.0	0.34	0.29	0.74	1.08	0.99	3.19	3.36	0.09	0.51	0.70
3/7/2025	6.9	0.35	0.28	0.65	1.09	1.00	3.19	3.34	0.08	0.53	0.68
3/8/2025	7.0	0.34	0.28	0.65	1.10	1.01	3.19	3.34	0.08	0.51	0.70
3/9/2025	6.7	0.41	0.30	0.63	1.11	1.01	3.19	3.34	0.08	0.51	0.68
3/10/2025	6.8	0.41	0.33	0.61	1.10	1.01	3.19	3.33	0.08	0.51	0.70
3/11/2025	6.7	0.40	0.33	0.61	1.09	1.00	3.19	3.33	0.08	0.51	0.68
3/12/2025	6.6	0.37	0.32	0.61	1.09	1.00	3.19	3.33	0.08	0.51	0.68
3/13/2025	6.7	0.37	0.31	0.61	1.07	0.99	3.19	3.33	0.08	0.51	0.69
3/14/2025	6.4	0.33	0.30	0.64	1.08	0.99	3.19	3.33	0.08	0.51	0.69
3/15/2025	6.6	0.30	0.26	0.69	1.09	0.99	3.19	3.34	0.08	0.51	0.68
3/16/2025	6.7	0.34	0.26	0.67	1.09	1.00	3.19	3.34	0.08	0.52	0.69
3/17/2025	6.5	0.33	0.26	0.67	1.09	1.00	3.19	3.34	0.08	0.52	0.69
3/18/2025	6.4	0.33	0.25	0.68	1.08	0.99	3.19	3.33	0.08	0.52	0.69
3/19/2025	6.6	0.34	0.24	0.68	1.10	1.00	3.19	3.34	0.08	0.52	0.69
3/20/2025	6.3	0.37	0.25	0.68	1.10	1.01	3.19	3.33	0.09	0.52	0.69
3/21/2025	6.7	0.30	0.25	0.68	1.11	1.02	3.19	3.33	0.09	0.52	0.71
3/22/2025	6.5	0.31	0.22	0.68	1.08	1.00	3.19	3.32	0.09	0.52	0.70
3/23/2025	6.7	0.39	0.24	0.67	1.12	1.01	3.19	3.32	0.08	0.52	0.70
3/24/2025	6.3	0.34	0.26	0.65	1.09	1.01	3.19	3.33	0.08	0.52	0.71
3/25/2025	6.5	0.28	0.22	0.72	1.10	1.00	3.19	3.32	0.09	0.52	0.73
3/26/2025	6.3	0.32	0.21	0.72	1.10	1.00	3.19	3.33	0.09	0.52	0.72
3/27/2025	6.5	0.36	0.23	0.68	1.11	1.01	3.19	3.33	0.08	0.52	0.70
3/28/2025	6.2	0.36	0.24	0.68	1.08	1.00	3.19	3.33	0.09	0.52	0.70
3/29/2025	6.7	0.36	0.25	0.68	1.10	1.00	3.19	3.33	0.07	0.52	0.70
3/30/2025	6.6	0.38	0.25	0.68	1.10	1.01	3.19	3.34	0.07	0.52	0.70
3/31/2025	6.3	0.38	0.25	0.70	1.10	1.00	3.19	3.32	0.07	0.52	0.70
Avg	6.7	0.36	0.28	0.67	1.09	1.00	3.20	3.34	0.08	0.52	0.70
Min	6.2	0.28	0.21	0.61	1.07	0.99	3.19	3.32	0.07	0.51	0.68
Max	7.5	0.43	0.35	0.74	1.12	1.02	3.32	3.41	0.11	0.53	0.74

Disinfection CT														
Date	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	AIT-4040-1	Calculated	Calculated
3/1/2025	57.2	2,185	0.43	931	28.6	22.7	6.5	541	0.98	265	1196	2.1	12.00	Y
3/2/2025	55.8	2,242	0.42	937	28.6	21.7	6.6	521	0.99	259	1195	2.1	12.00	Y
3/3/2025	48.1	2,602	0.39	1023	28.5	22.7	6.4	547	0.98	267	1291	2.0	12.00	Y
3/4/2025	40.8	3,065	0.37	1128	28.5	23.4	6.1	586	0.98	289	1416	2.0	12.00	Y
3/5/2025	41.4	3,023	0.35	1051	28.5	22.2	6.0	577	0.96	278	1329	2.0	12.00	Y
3/6/2025	41.3	3,026	0.34	1020	28.7	21.8	6.2	560	0.97	272	1292	2.1	12.00	Y
3/7/2025	45.0	2,777	0.35	976	28.6	22.5	6.2	565	0.97	274	1250	2.0	12.00	Y
3/8/2025	48.9	2,558	0.34	866	28.5	22.1	6.2	557	0.99	276	1142	2.1	12.00	Y
3/9/2025	52.5	2,384	0.41	974	28.5	21.5	6.3	548	0.99	272	1245	2.1	12.00	Y
3/10/2025	53.2	2,350	0.41	967	28.5	21.8	6.0	573	1.00	286	1253	2.2	12.00	Y
3/11/2025	47.5	2,633	0.40	1048	28.5	21.6	5.9	580	0.97	281	1330	2.2	12.00	Y
3/12/2025	41.3	3,028	0.37	1116	28.5	22.1	6.0	579	0.97	281	1397	2.2	12.00	Y
3/13/2025	41.8	2,990	0.37	1098	28.5	22.4	6.0	578	0.96	279	1377	2.1	12.00	Y
3/14/2025	47.1	2,655	0.33	875	28.5	22.2	5.8	600	0.98	294	1168	2.3	12.00	Y
3/15/2025	55.6	2,252	0.30	681	28.5	22.9	5.9	593	0.97	288	969	2.5	12.00	Y
3/16/2025	56.2	2,224	0.34	755	28.5	23.2	5.9	598	0.98	294	1050	2.6	12.00	Y
3/17/2025	49.3	2,535	0.33	824	28.5	23.4	5.7	620	0.98	305	1129	2.9	12.00	Y
3/18/2025	42.1	2,969	0.33	967	28.5	23.7	5.8	621	0.98	303	1271	3.1	12.00	Y
3/19/2025	42.1	2,971	0.34	1022	28.5	23.3	5.9	599	0.98	293	1315	3.2	12.00	Y
3/20/2025	42.7	2,932	0.37	1093	28.5	22.0	5.7	606	0.98	298	1392	3.2	12.00	Y
3/21/2025	41.6	3,005	0.30	896	28.5	22.0	5.9	590	1.00	295	1191	3.0	12.00	Y
3/22/2025	54.9	2,277	0.31	707	28.5	22.3	5.9	588	0.97	285	993	3.3	12.00	Y
3/23/2025	55.6	2,249	0.39	876	28.6	21.9	6.0	579	0.97	281	1157	3.3	12.00	Y
3/24/2025	49.9	2,509	0.34	842	28.5	22.6	5.7	615	0.99	305	1147	3.3	12.00	Y
3/25/2025	42.0	2,980	0.28	841	28.7	24.2	5.8	622	0.97	302	1143	3.3	12.00	Y
3/26/2025	40.2	3,112	0.32	989	28.6	22.1	5.6	616	0.98	301	1290	3.4	12.00	Y
3/27/2025	40.7	3,075	0.36	1095	28.5	24.2	5.8	619	0.99	307	1402	3.4	12.00	Y
3/28/2025	42.6	2,938	0.36	1055	28.5	21.9	5.7	602	0.99	298	1354	3.5	12.00	Y
3/29/2025	54.2	2,307	0.36	829	28.5	22.4	5.9	593	0.98	292	1121	3.5	12.00	Y
3/30/2025	55.0	2,276	0.38	861	28.6	23.4	5.8	616	1.00	308	1168	3.5	12.00	Y
3/31/2025	50.9	2,458	0.38	929	28.5	23.6	5.7	621	0.98	304	1233	3.5	12.00	Y
Avg	47.7	2,664	0.36	944	28.5	22.6	6.0	587	0.98	288	1232	2.7	12.00	NA
Min	40.2	2,185	0.28	681	28.5	21.5	5.6	521	0.96	259	969	2.0	12.00	NA
Max	57.2	3,112	0.43	1128	28.7	24.2	6.6	622	1.00	308	1416	3.5	12.00	NA

Notes:

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

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																											
3/1/2025	0.58	0.77	0.65	0.61	0.89	1.01	0.81	0.87	0.69	0.39	0.82	0.92	0.57	0.98	0.90	0.82	0.81	0.86	0.88	0.66	0.90	0.27	0.56	0.85																											
3/2/2025																																																			
3/3/2025																																																			
3/4/2025																									0.82	0.81	0.86	0.88	0.66	0.27	0.56	0.85																			
3/5/2025																																																			
3/6/2025																																																			
3/7/2025																																																			
3/8/2025																																																			
3/9/2025																																																			
3/10/2025																																																			
3/11/2025																																	0.84	0.85	0.76	0.67	0.56	0.87													
3/12/2025																																																			
3/13/2025																																																			
3/14/2025																																																			
3/15/2025																																																			
3/16/2025																																																			
3/17/2025																																																			
3/18/2025																																							1.06	0.90	0.94	0.87	0.85								
3/19/2025																																																			
3/20/2025																																																			
3/21/2025																																																			
3/22/2025																																																			
3/23/2025																																																			
3/24/2025																																																			
3/25/2025																																																			
3/26/2025																																												0.90	0.33	0.80	0.84	0.71	0.95	0.83	0.87
3/27/2025																																																			
3/28/2025																																																			
3/29/2025																																																			
3/30/2025																																																			
3/31/2025																																																			
Average	0.58	0.68				0.91			0.77							0.82					0.90	0.42		0.91																											
Min	0.58	0.30				0.81			0.32							0.66					0.90	0.27		0.85																											
Max	0.58	0.89				1.01			1.05							1.06					0.90	0.56		0.99																											

MONITORING STATION ADDRESSES

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

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

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

Distribution System Monitoring																											
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)																											
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
3/1/2025	0.76		0.91	0.61	0.63	0.49	0.96	0.76		0.79		0.70		0.80		0.89	0.72	0.77	0.41		0.79		0.76	0.67	0.82	0.62	0.67
3/2/2025																											
3/3/2025																											
3/4/2025																											
3/5/2025	0.65		0.51	0.61	0.65			0.86	0.71				0.63			0.89	0.67	0.75	0.49		0.71			0.70	0.74	0.84	
3/6/2025																											
3/7/2025																											
3/8/2025																											
3/9/2025																											
3/10/2025																											
3/11/2025																											
3/12/2025																											
3/13/2025																											
3/14/2025																											
3/15/2025																											
3/16/2025																											
3/17/2025																											
3/18/2025																											
3/19/2025																											
3/20/2025																											
3/21/2025				0.61	0.68	0.55																					
3/22/2025																											
3/23/2025																											
3/24/2025																											
3/25/2025																											
3/26/2025																											
3/27/2025																											
3/28/2025																											
3/29/2025																											
3/30/2025																											
3/31/2025																											
Average	0.71		0.63				0.86			0.75		0.70		0.72		0.76			0.45		0.75		0.76		0.73		0.67
Min	0.65		0.49				0.76			0.71		0.70		0.63		0.67			0.41		0.71		0.76		0.62		0.67
Max	0.76		0.91				0.96			0.79		0.70		0.80		0.89			0.49		0.79		0.76		0.84		0.67

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. Tool 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 Enviromental Health Water Supplier Bacteriological Analysis Report				Name of Water Supply Bay Area Water Treatment Plant			
				March, 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	0.58	1	1	0	0
BAY	Bangor Township	0390	0.68	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.91	3	4	0	0
BAY	Bay City	0470	0.77	30	35	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.82	9	10	0	0
BAY	Beaver Road Area	0517	0.90	1	1	0	0
BAY	Beaver Township	0518	0.42	2	2	0	0
BAY	Essexville	2180	0.91	4	4	0	0
BAY	Fraser Township	2465	0.71	2	2	0	0
BAY	Hampton Township	2960	0.63	10	10	0	0
BAY	Kawkawlin Township	3565	0.86	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.75	2	2	0	0
BAY	Linwood Metro Water District	3910	0.70	1	1	0	0
BAY	Merritt Township	4280	0.72	2	2	0	0
BAY	Monitor Township	4440	0.76	6	9	0	0
BAY	City of Pinconning	5330	0.45	2	2	0	0
BAY	Pinconning Township	5335	0.75	2	2	0	0
BAY	Portsmouth Township	5540	0.76	1	1	0	0
BAY	Williams Township	7125	0.73	6	6	0	0
Tuscola	Wisner	7134	0.67	1	1	0	0
				98			
Average Free Cl2 Residual of All Distribution Sites			0.72	mg/L			
1. Total distribution samples			108				
2. Total distribution samples with detectable free cl2 residual			108				
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%				