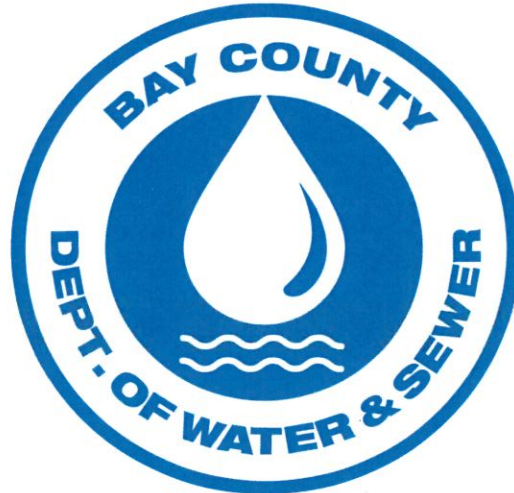


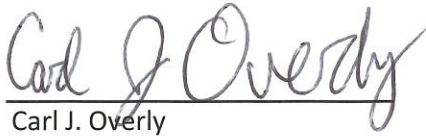
Bay Area WTP

Monthly Operations Report



August, 2024

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

August, 2024
 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>10.9</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>16.51</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>29.39</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>4,047</u>	Gallons	Estimated Supply:	<u>36.2</u>	days
Caustic Soda on hand:	<u>3,655</u>	Gallons	Estimated Supply:	<u>250.4</u>	days
Corrosion Inhibitor on hand:	<u>749</u>	Gallons	Estimated Supply:	<u>26.9</u>	days
Hydrofluosilicic Acid on hand:	<u>527</u>	Gallons	Estimated Supply:	<u>24.2</u>	days
Aluminum Chlorohydrate on hand:	<u>815</u>	Gallons	Estimated Supply:	<u>75.0</u>	days
Sulfuric Acid on hand:	<u>242</u>	Gallons	Estimated Supply:	<u>120.9</u>	days
Sodium Bisulfite on hand:	<u>280</u>	Gallons	Estimated Supply:	<u>96.6</u>	days
Citric Acid on hand:	<u>3,295</u>	Gallons	Estimated Supply:	<u>263.6</u>	days
Cost of All Chemicals per Million Gallons:	<u>112.84</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>967.13</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>2.25</u>	Mcf

Remarks

Number of periods of filter confluence turbidity samples > 0.3 NTU 0

Percent of membrane period confluence samples > 0.3 NTU: 0.00%

Was continuous (every 15 minutes) filter monitoring equipment off-line during the month? No
 If yes, indicate date(s), duration, and individual filter grab sampling frequency on a separate sheet.

Did POE disinfectant residual fall below 0.2 ppm during the month? No
 If yes, indicate date(s) and duration on a separate sheet.

Was minimum C*T credit achieved for the entire month? Yes
 If no, indicate on a separate sheet the date(s) not achieved.

Was continuous POE chlorine residual monitoring equipment off-line during the month? No
 If yes, date(s) and duration will be indicated on the rule page.

Notes

Skid 1 had its modules replaced this month. While turbidity stayed about the same, LRV, Perm, Res, and valve position all drastically improved.

Skid 8 failed an air hold on the 18th due to a valve failing to close, we left the failure listed on the Mem LRV-Int-NTU Tab.

The valves on Skid 8 were exercised and a second air hold was run and successfully completed.

Worth mentioning, pipe support replacement is underway on train 1. It takes a couple of days to get a support down, prepped, and reinstalled.

Fraser Tower was taken out of service on the 20th for exterior paint and a chemical washout. Expecting back in service mid September.

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
8/1/2024	4.79	4.01	8.81	0.30	0.15	9.43	4.76	3.87	8.64
8/2/2024	4.98	4.81	9.78	0.22	0.23	9.36	4.82	3.91	8.73
8/3/2024	5.47	4.61	10.08	0.22	0.22	9.88	4.94	4.04	8.98
8/4/2024	5.58	4.62	10.21	0.30	0.14	9.34	4.73	3.88	8.61
8/5/2024	5.03	3.89	8.92	0.17	0.23	8.78	4.41	3.69	8.10
8/6/2024	3.79	3.49	7.28	0.23	0.14	7.75	3.80	3.23	7.03
8/7/2024	3.33	4.68	8.01	0.25	0.20	8.51	4.22	3.61	7.83
8/8/2024	3.43	5.57	9.00	0.23	0.15	8.12	3.97	3.49	7.46
8/9/2024	3.65	5.36	9.01	0.35	0.12	8.81	4.43	3.68	8.11
8/10/2024	3.68	4.33	8.01	0.32	0.21	8.41	4.25	3.49	7.74
8/11/2024	3.49	4.92	8.41	0.24	0.26	8.27	4.21	3.45	7.66
8/12/2024	4.64	4.83	9.47	0.30	0.15	8.92	4.57	3.71	8.28
8/13/2024	5.19	4.23	9.42	0.43	0.14	9.28	4.74	3.84	8.57
8/14/2024	5.21	3.77	8.98	0.36	0.16	9.61	4.81	3.94	8.76
8/15/2024	5.11	4.92	10.03	0.29	0.22	9.15	4.54	3.76	8.31
8/16/2024	3.98	4.51	8.48	0.24	0.25	7.95	4.00	3.34	7.34
8/17/2024	2.70	4.49	7.19	0.16	0.26	7.44	3.70	3.03	6.73
8/18/2024	2.73	5.11	7.84	0.15	0.26	7.88	3.87	3.35	7.22
8/19/2024	2.45	6.17	8.62	0.27	0.13	8.77	4.43	3.70	8.13
8/20/2024	2.28	6.85	9.13	0.22	0.17	8.36	4.16	3.44	7.61
8/21/2024	2.30	6.36	8.65	0.15	0.26	8.36	4.26	3.47	7.73
8/22/2024	2.36	5.88	8.24	0.14	0.26	8.64	4.40	3.59	7.99
8/23/2024	2.48	6.29	8.77	0.20	0.26	9.32	4.73	3.85	8.58
8/24/2024	2.78	7.00	9.78	0.20	0.26	9.42	4.73	3.85	8.58
8/25/2024	2.86	7.50	10.37	0.20	0.25	9.11	4.65	3.78	8.43
8/26/2024	3.50	6.29	9.80	0.38	0.14	10.88	5.62	4.57	10.18
8/27/2024	3.35	6.70	10.06	0.18	0.26	8.30	4.16	3.46	7.62
8/28/2024	3.26	5.21	8.46	0.21	0.26	8.38	4.22	3.54	7.76
8/29/2024	3.40	4.98	8.38	0.16	0.21	8.63	4.16	3.57	7.73
8/30/2024	3.60	4.82	8.42	0.33	0.08	8.10	4.05	3.44	7.49
8/31/2024	3.36	4.91	8.27	0.14	0.25	7.99	4.02	3.47	7.49
Total	114.76	161.13	275.89	7.54	6.26	271.16	136.38	113.04	249.43
Avg	3.70	5.20	8.90	0.24	0.20	8.75	4.40	3.65	8.05
Min	2.28	3.49	7.19	0.14	0.08	7.44	3.70	3.03	6.73
Max	5.58	7.50	10.37	0.43	0.26	10.88	5.62	4.57	10.18

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	AIT-1035-2	Lab	
8/1/2024	22.2	7.91	0.66	0.72	0.07	0.31	Negative	Negative
8/2/2024	21.9	7.52	0.72	0.81	0.06	0.34	Negative	Negative
8/3/2024	21.7	7.86	1.01	1.35	0.09	0.28	Negative	Negative
8/4/2024	22.6	8.34	1.48	1.98	0.09	0.16	Negative	Negative
8/5/2024	21.4	8.08	1.91	2.97	0.09	0.06	Negative	Negative
8/6/2024	21.2	8.10	1.95	2.14	0.09	0.02	Positive	Negative
8/7/2024	22.3	8.07	0.98	1.83	0.09	0.11	Negative	Negative
8/8/2024	23.2	8.01	1.72	2.96	0.09	0.05	Negative	Negative
8/9/2024	22.4	7.92	2.92	4.32	0.10	0.03	Positive	Negative
8/10/2024	21.0	7.78	2.30	2.75	0.10	0.04	Positive	Negative
8/11/2024	21.1	7.84	1.19	1.83	0.09	0.04	Negative	Negative
8/12/2024	21.0	7.83	0.58	0.89	0.09	0.17	Negative	Negative
8/13/2024	22.3	7.80	0.46	0.97	0.08	0.34	Negative	Negative
8/14/2024	22.3	7.77	0.57	0.75	0.09	0.27	Negative	Negative
8/15/2024	22.2	7.91	0.49	0.68	0.08	0.28	Negative	Negative
8/16/2024	22.2	8.02	0.52	0.61	0.08	0.29	Negative	Negative
8/17/2024	21.9	8.00	0.49	0.60	0.08	0.27	Negative	Negative
8/18/2024	21.7	7.95	0.48	0.63	0.08	0.35	Negative	Negative
8/19/2024	21.3	7.92	0.52	0.97	0.08	0.31	Negative	Negative
8/20/2024	21.2	7.93	1.12	3.02	0.08	0.17	Negative	Negative
8/21/2024	21.2	7.89	1.91	2.96	0.09	0.05	Positive	Negative
8/22/2024	21.2	7.88	1.33	1.77	0.09	0.09	Negative	Negative
8/23/2024	21.2	7.89	1.24	1.53	0.09	0.09	Negative	Negative
8/24/2024	21.9	7.85	1.19	1.41	0.09	0.16	Negative	Negative
8/25/2024	23.3	7.84	0.96	1.23	0.09	0.19	Negative	Negative
8/26/2024	23.1	7.86	0.89	1.29	0.09	0.14	Negative	Negative
8/27/2024	23.4	7.89	0.80	1.03	0.09	0.09	Negative	Negative
8/28/2024	23.4	7.71	0.79	1.07	0.09	0.07	Negative	Negative
8/29/2024	22.3	7.68	0.68	1.33	0.08	0.11	Negative	Negative
8/30/2024	22.3	7.93	1.02	3.35	0.09	0.09	Negative	Negative
8/31/2024	22.2	7.87	1.15	1.45	0.09	0.06	Negative	Negative
Avg	22.0	7.90	1.10	1.65	0.09	0.16	NA	NA
Min	21.0	7.52	0.46	0.60	0.06	0.02	NA	NA
Max	23.4	8.34	2.92	4.32	0.10	0.35	NA	NA

Finished Water Analysis																		
Date	Temp	pH	Phosphate	Fluoride		Free Cl ₂	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	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	uS/cm				Calculated	
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab		Lab	Lab	Lab	Lab	Lab	Lab				
8/1/2024	20.1	7.51	3.38	0.69		1.31	0	75	14	11	74	8.5	222	-0.70	1.27	0.51	Negative	Negative
8/2/2024	19.8	7.47	3.38	0.68		1.31	0	72	11	10	72	8.9	222	-0.78	1.10	0.44	Negative	Negative
8/3/2024	19.2	7.48	3.38	0.71		1.32	0	76	11	11	74	8.6	223	-0.75	1.00	0.44	Negative	Negative
8/4/2024	19.7	7.45	3.39	0.71		1.29	0	79	12	11	76	8.7	230	-0.74	1.09	0.44	Negative	Negative
8/5/2024	20.5	7.46	3.39	0.71	0.69	1.27	0	81	13	11	78	8.5	240	-0.69	1.18	0.45	Negative	Negative
8/6/2024	21.2	7.59	3.39	0.70		1.28	0	82	13	12	78	8.1	246	-0.55	1.08	0.46	Negative	Negative
8/7/2024	21.8	7.64	3.40	0.71		1.30	0	83	14	14	76	8.4	246	-0.49	1.00	0.51	Negative	Negative
8/8/2024	22.3	7.72	3.43	0.71		1.32	0	82	13	12	68	8.3	242	-0.44	1.08	0.46	Negative	Negative
8/9/2024	22.5	7.70	3.44	0.71		1.27	0	84	14	13	70	7.9	259	-0.44	1.08	0.49	Negative	Negative
8/10/2024	22.3	7.73	3.44	0.72		1.28	0	88	17	12	78	7.7	268	-0.35	1.42	0.51	Negative	Negative
8/11/2024	22.3	7.71	3.44	0.72		1.30	0	84	13	12	70	7.6	260	-0.44	1.08	0.45	Negative	Negative
8/12/2024	22.3	7.67	3.43	0.71	0.72	1.32	0	86	15	11	72	7.6	261	-0.45	1.36	0.47	Negative	Negative
8/13/2024	22.0	7.60	3.45	0.70		1.31	0	84	14	13	66	8.3	229	-0.56	1.08	0.49	Negative	Negative
8/14/2024	21.4	7.56	3.44	0.71		1.31	0	75	11	11	68	8.2	225	-0.65	1.00	0.44	Negative	Negative
8/15/2024	21.0	7.56	3.43	0.70		1.31	0	77	11	11	76	8.8	225	-0.60	1.00	0.43	Negative	Negative
8/16/2024	21.1	7.61	3.43	0.70		1.31	0	77	11	11	74	8.4	227	-0.57	1.00	0.43	Negative	Negative
8/17/2024	21.1	7.65	3.42	0.70		1.28	0	77	12	11	72	8.6	226	-0.54	1.09	0.45	Negative	Negative
8/18/2024	20.9	7.72	3.42	0.71		1.31	0	77	12	11	76	8.6	227	-0.45	1.09	0.45	Negative	Negative
8/19/2024	20.8	7.79	3.42	0.70	0.71	1.31	0	77	12	10	74	8.5	228	-0.39	1.20	0.44	Negative	Negative
8/20/2024	20.7	7.61	3.42	0.70		1.29	0	77	11	12	76	8.5	231	-0.57	0.92	0.45	Negative	Negative
8/21/2024	20.8	7.44	3.42	0.70		1.27	0	78	14	14	80	8.6	237	-0.71	1.00	0.54	Negative	Negative
8/22/2024	20.8	7.39	3.42	0.72		1.31	0	83	13	12	70	8.3	238	-0.79	1.08	0.46	Negative	Negative
8/23/2024	20.8	7.33	3.41	0.72		1.31	0	83	14	11	70	8.4	241	-0.85	1.27	0.46	Negative	Negative
8/24/2024	20.8	7.30	3.42	0.70		1.31	0	85	13	12	68	8.3	241	-0.88	1.08	0.45	Negative	Negative
8/25/2024	20.9	7.34	3.42	0.71		1.33	0	84	13	11	68	8.5	226	-0.84	1.18	0.44	Negative	Negative
8/26/2024	21.3	7.57	3.44	0.70	0.71	1.33	0	84	14	11	72	8.3	229	-0.58	1.27	0.46	Negative	Negative
8/27/2024	21.4	7.55	3.43	0.72		1.31	0	84	14	13	72	8.3	231	-0.59	1.08	0.49	Negative	Negative
8/28/2024	21.2	7.72	3.42	0.72		1.30	0	82	15	13	74	8.2	233	-0.43	1.15	0.52	Negative	Negative
8/29/2024	21.0	7.59	3.40	0.68		1.29	0	81	13	12	78	8.4	229	-0.55	1.08	0.47	Negative	Negative
8/30/2024	21.1	7.50	3.40	0.68		1.29	0	81	14	12	76	8.6	228	-0.64	1.17	0.49	Negative	Negative
8/31/2024	21.1	7.56	3.39	0.69		1.28	0	82	14	13	78	8.6	230	-0.57	1.08	0.50	Negative	Negative
Avg	21.1	7.56	3.42	0.70	0.71	1.30	0	81	13	12	73	8.3	235	-0.60	1.12	0.47	NA	NA
Min	19.2	7.30	3.38	0.68	0.69	1.27	0	72	11	10	66	7.6	222	-0.88	0.92	0.43	NA	NA
Max	22.5	7.79	3.45	0.72	0.72	1.33	0	88	17	14	80	8.9	268	-0.35	1.42	0.54	NA	NA

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
8/1/2024	0.66	0.72	24.37	0.60	0.033	0.034	96	0	0.0	0.027
8/2/2024	0.72	0.81	37.29	0.72	0.033	0.034	96	0	0.0	0.027
8/3/2024	1.01	1.35	32.71	0.86	0.033	0.034	96	0	0.0	0.027
8/4/2024	1.48	1.98	4.40	1.12	0.034	0.035	96	0	0.0	0.027
8/5/2024	1.91	2.97	10.03	1.56	0.036	0.037	96	0	0.0	0.029
8/6/2024	1.95	2.14	18.75	1.96	0.037	0.041	96	0	0.0	0.028
8/7/2024	0.98	1.83	40.91	1.72	0.037	0.038	96	0	0.0	0.029
8/8/2024	1.72	2.96	39.25	1.36	0.037	0.039	96	0	0.0	0.029
8/9/2024	2.92	4.32	93.04	2.33	0.039	0.041	96	0	0.0	0.030
8/10/2024	2.30	2.75	100.17	2.39	0.039	0.041	96	0	0.0	0.031
8/11/2024	1.19	1.83	100.17	1.91	0.039	0.041	96	0	0.0	0.031
8/12/2024	0.58	0.89	31.20	1.36	0.037	0.038	96	0	0.0	0.029
8/13/2024	0.46	0.97	13.12	0.74	0.035	0.036	96	0	0.0	0.029
8/14/2024	0.57	0.75	0.70	0.68	0.035	0.036	96	0	0.0	0.030
8/15/2024	0.49	0.68	4.34	0.62	0.036	0.037	96	0	0.0	0.029
8/16/2024	0.52	0.61	6.59	0.60	0.036	0.036	96	0	0.0	0.029
8/17/2024	0.49	0.60	5.80	0.58	0.036	0.036	96	0	0.0	0.029
8/18/2024	0.48	0.63	2.88	0.57	0.035	0.035	96	0	0.0	0.029
8/19/2024	0.52	0.97	4.58	0.56	0.034	0.035	96	0	0.0	0.029
8/20/2024	1.12	3.02	8.23	0.70	0.034	0.037	96	0	0.0	0.029
8/21/2024	1.91	2.96	10.66	1.37	0.036	0.037	96	0	0.0	0.030
8/22/2024	1.33	1.77	28.17	1.47	0.036	0.037	96	0	0.0	0.030
8/23/2024	1.24	1.53	14.32	1.30	0.036	0.038	96	0	0.0	0.030
8/24/2024	1.19	1.41	22.90	1.26	0.037	0.038	96	0	0.0	0.030
8/25/2024	0.96	1.23	31.96	1.16	0.037	0.037	96	0	0.0	0.031
8/26/2024	0.89	1.29	47.31	1.15	0.036	0.038	96	0	0.0	0.030
8/27/2024	0.80	1.03	10.99	0.89	0.036	0.039	96	0	0.0	0.030
8/28/2024	0.79	1.07	17.97	0.85	0.036	0.039	96	0	0.0	0.030
8/29/2024	0.68	1.33	13.81	0.77	0.035	0.036	96	0	0.0	0.030
8/30/2024	1.02	3.35	28.89	0.81	0.035	0.035	96	0	0.0	0.030
8/31/2024	1.15	1.45	15.61	0.82	0.035	0.037	96	0	0.0	0.030
Avg	1.10	1.65	26.49	1.12	0.036	0.037	96	0	0.0	0.029
Min	0.46	0.60	0.70	0.56	0.033	0.034	96	0	0.0	0.027
Max	2.92	4.32	100.17	2.39	0.039	0.041	96	0	0.0	0.031

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
8/1/2024	4.05	PASS	0.028	5.32	PASS	0.029	5.44	PASS	0.026	4.35	PASS	0.027	5.44	PASS	0.025	4.25	PASS	0.028	4.24	PASS	0.026	5.47	PASS	0.031
8/2/2024	4.04	PASS	0.027	5.36	PASS	0.029	5.47	PASS	0.026	4.32	PASS	0.027	5.41	PASS	0.025	4.22	PASS	0.027	4.25	PASS	0.026	5.52	PASS	0.027
8/3/2024	4.02	PASS	0.026	5.31	PASS	0.030	5.48	PASS	0.026	4.27	PASS	0.027	5.41	PASS	0.025	4.16	PASS	0.030	4.17	PASS	0.026	5.49	PASS	0.028
8/4/2024	3.96	PASS	0.027	5.29	PASS	0.030	5.47	PASS	0.027	4.20	PASS	0.028	5.40	PASS	0.026	4.13	PASS	0.029	4.11	PASS	0.027	5.43	PASS	0.029
8/5/2024	3.88	PASS	0.028	5.27	PASS	0.032	5.46	PASS	0.028	4.11	PASS	0.029	5.31	PASS	0.028	4.10	PASS	0.030	4.08	PASS	0.028	5.36	PASS	0.031
8/6/2024	3.86	PASS	0.030	5.18	PASS	0.032	5.25	PASS	0.029	4.00	PASS	0.030	5.25	PASS	0.031	4.05	PASS	0.035	4.02	PASS	0.029	5.38	PASS	0.030
8/7/2024	3.84	PASS	0.031	5.14	PASS	0.034	5.20	PASS	0.029	3.99	PASS	0.030	5.20	PASS	0.028	4.00	PASS	0.035	4.02	PASS	0.029	5.27	PASS	0.031
8/8/2024	3.83	PASS	0.029	5.14	PASS	0.031	5.33	PASS	0.030	4.02	PASS	0.029	5.27	PASS	0.028	4.00	PASS	0.030	3.98	PASS	0.029	5.24	PASS	0.031
8/9/2024	3.80	PASS	0.030	5.06	PASS	0.033	5.24	PASS	0.031	3.94	PASS	0.031	5.10	PASS	0.030	3.96	PASS	0.032	3.91	PASS	0.030	5.14	PASS	0.032
8/10/2024	3.86	PASS	0.031	5.02	PASS	0.033	5.09	PASS	0.032	3.91	PASS	0.032	5.01	PASS	0.030	3.96	PASS	0.032	3.92	PASS	0.031	5.07	PASS	0.032
8/11/2024	3.95	PASS	0.030	5.08	PASS	0.033	5.26	PASS	0.031	4.06	PASS	0.031	5.18	PASS	0.030	4.05	PASS	0.031	3.97	PASS	0.030	5.26	PASS	0.032
8/12/2024	3.95	PASS	0.031	5.13	PASS	0.032	5.14	PASS	0.031	4.08	PASS	0.029	5.22	PASS	0.033	4.14	PASS	0.030	3.98	PASS	0.029	5.25	PASS	0.030
8/13/2024	3.94	PASS	0.030	5.18	PASS	0.030	5.18	PASS	0.030	4.07	PASS	0.029	5.29	PASS	0.031	4.15	PASS	0.028	4.05	PASS	0.027	5.38	PASS	0.030
8/14/2024	4.01	PASS	0.029	5.25	PASS	0.029	5.47	PASS	0.028	4.20	PASS	0.029	5.35	PASS	0.029	4.17	PASS	0.028	4.15	PASS	0.026	5.44	PASS	0.030
8/15/2024	4.07	PASS	0.029	5.18	PASS	0.029	5.51	PASS	0.028	4.29	PASS	0.029	5.41	PASS	0.029	4.23	PASS	0.028	4.19	PASS	0.026	5.43	PASS	0.030
8/16/2024	4.08	PASS	0.029	5.18	PASS	0.029	5.48	PASS	0.028	4.27	PASS	0.029	5.44	PASS	0.029	4.24	PASS	0.028	4.21	PASS	0.026	5.50	PASS	0.030
8/17/2024	4.07	PASS	0.029	5.27	PASS	0.029	5.52	PASS	0.029	4.18	PASS	0.029	5.45	PASS	0.029	4.20	PASS	0.028	4.19	PASS	0.026	5.50	PASS	0.034
8/18/2024	4.06	PASS	0.029	5.25	PASS	0.030	5.50	PASS	0.028	4.17	PASS	0.029	5.42	PASS	0.029	4.18	PASS	0.028	4.19	PASS	0.027	5.50	Fail/Pass	0.034
8/19/2024	4.06	PASS	0.029	5.26	PASS	0.031	5.51	PASS	0.028	4.22	PASS	0.029	5.40	PASS	0.029	4.20	PASS	0.028	4.15	PASS	0.026	4.43	PASS	0.029
8/20/2024				5.22	PASS	0.030	5.44	PASS	0.029	4.19	PASS	0.029	5.39	PASS	0.030	4.23	PASS	0.028	4.13	PASS	0.026	4.42	PASS	0.031
8/21/2024				5.18	PASS	0.031	5.42	PASS	0.030	4.16	PASS	0.030	5.28	PASS	0.031	4.14	PASS	0.029	4.04	PASS	0.028	4.47	PASS	0.029
8/22/2024				5.11	PASS	0.032	5.38	PASS	0.031	4.12	PASS	0.030	5.26	PASS	0.031	4.12	PASS	0.030	4.02	PASS	0.028	5.45	PASS	0.031
8/23/2024				5.09	PASS	0.032	5.40	PASS	0.031	4.10	PASS	0.031	5.26	PASS	0.032	4.10	PASS	0.030	4.02	PASS	0.028	4.81	PASS	0.031
8/24/2024	Out for Modular Replacement			5.22	PASS	0.032	5.45	PASS	0.031	4.11	PASS	0.031	5.30	PASS	0.032	4.09	PASS	0.030	3.99	PASS	0.028	4.82	PASS	0.030
8/25/2024				5.21	PASS	0.031	5.40	PASS	0.030	4.11	PASS	0.030	5.31	PASS	0.031	4.09	PASS	0.030	3.98	PASS	0.027	4.87	PASS	0.033
8/26/2024				5.14	PASS	0.031	5.33	PASS	0.030	4.03	PASS	0.030	5.20	PASS	0.031	4.05	PASS	0.030	3.99	PASS	0.027	4.82	PASS	0.040
8/27/2024				5.21	PASS	0.032	5.40	PASS	0.030	4.11	PASS	0.030	5.28	PASS	0.031	4.09	PASS	0.030	4.03	PASS	0.038	5.15	PASS	0.033
8/28/2024	5.43	PASS	0.042	5.25	PASS	0.032	5.41	PASS	0.032	4.09	PASS	0.031	5.28	PASS	0.031	4.10	PASS	0.030	3.97	PASS	0.028	5.38	PASS	0.033
8/29/2024	5.38	PASS	0.031	5.20	PASS	0.031	5.45	PASS	0.030	4.08	PASS	0.030	5.30	PASS	0.037	4.10	PASS	0.029	4.04	PASS	0.027	5.43	PASS	0.031
8/30/2024	5.33	PASS	0.030	5.17	PASS	0.031	5.39	PASS	0.030	4.05	PASS	0.030	5.18	PASS	0.031	4.08	PASS	0.029	3.95	PASS	0.027	5.38	PASS	0.032
8/31/2024	5.34	PASS	0.031	5.16	PASS	0.032	5.40	PASS	0.030	4.10	PASS	0.030	5.20	PASS	0.031	4.10	PASS	0.030	3.96	PASS	0.028	5.38	PASS	0.033
Avg	4.21		0.030	5.19		0.031	5.38		0.029	4.13		0.029	5.30		0.030	4.12		0.030	4.06		0.028	5.21		0.031
Min	3.80		0.026	5.02		0.029	5.09		0.026	3.91		0.027	5.01		0.025	3.96		0.027	3.91		0.026	4.42		0.027
Max	5.43		0.042	5.36		0.034	5.52		0.032	4.35		0.032	5.45		0.037	4.25		0.035	4.25		0.038	5.52		0.040

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.

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	8/2015	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	Added	Lab
8/1/2024	9.4	0.31	0.19	1.18	1.44	1.31	3.32	3.38	0.07	0.57	0.69
8/2/2024	9.4	0.34	0.19	1.25	1.42	1.31	3.32	3.38	0.06	0.57	0.68
8/3/2024	9.9	0.28	0.17	1.18	1.44	1.32	3.32	3.38	0.09	0.57	0.71
8/4/2024	9.3	0.16	0.11	1.24	1.42	1.29	3.32	3.39	0.09	0.57	0.71
8/5/2024	8.8	0.06	0.03	1.45	1.47	1.27	3.32	3.39	0.09	0.57	0.71
8/6/2024	7.8	0.02	0.01	1.70	1.59	1.28	3.32	3.39	0.09	0.57	0.70
8/7/2024	8.5	0.11	0.02	1.60	1.58	1.30	3.32	3.40	0.09	0.57	0.71
8/8/2024	8.1	0.05	0.02	1.58	1.60	1.32	3.32	3.43	0.09	0.57	0.71
8/9/2024	8.8	0.03	0.02	1.69	1.62	1.27	3.32	3.44	0.10	0.57	0.71
8/10/2024	8.4	0.04	0.03	1.80	1.69	1.28	3.32	3.44	0.10	0.57	0.72
8/11/2024	8.3	0.04	0.03	1.70	1.67	1.30	3.32	3.44	0.09	0.57	0.72
8/12/2024	8.9	0.17	0.04	1.64	1.64	1.32	3.32	3.43	0.09	0.57	0.71
8/13/2024	9.3	0.34	0.10	1.44	1.53	1.31	3.32	3.45	0.08	0.57	0.70
8/14/2024	9.6	0.27	0.12	1.44	1.52	1.31	3.32	3.44	0.09	0.57	0.71
8/15/2024	9.1	0.28	0.13	1.45	1.52	1.31	3.32	3.43	0.08	0.57	0.70
8/16/2024	8.0	0.29	0.15	1.40	1.51	1.31	3.32	3.43	0.08	0.57	0.70
8/17/2024	7.4	0.27	0.12	1.48	1.51	1.28	3.32	3.42	0.08	0.57	0.70
8/18/2024	7.9	0.35	0.12	1.51	1.54	1.31	3.32	3.42	0.08	0.57	0.71
8/19/2024	8.8	0.31	0.15	1.44	1.50	1.31	3.32	3.42	0.08	0.57	0.70
8/20/2024	8.4	0.17	0.11	1.52	1.50	1.29	3.32	3.42	0.08	0.57	0.70
8/21/2024	8.4	0.05	0.05	1.72	1.54	1.27	3.32	3.42	0.09	0.57	0.70
8/22/2024	8.6	0.09	0.04	1.72	1.58	1.31	3.32	3.42	0.09	0.57	0.72
8/23/2024	9.3	0.09	0.04	1.72	1.56	1.31	3.32	3.41	0.09	0.57	0.72
8/24/2024	9.4	0.16	0.05	1.72	1.56	1.31	3.32	3.42	0.09	0.57	0.70
8/25/2024	9.1	0.19	0.07	1.68	1.55	1.33	3.32	3.42	0.09	0.57	0.71
8/26/2024	10.9	0.14	0.06	1.72	1.55	1.33	3.32	3.44	0.09	0.57	0.70
8/27/2024	8.3	0.09	0.04	1.78	1.55	1.31	3.32	3.43	0.09	0.57	0.72
8/28/2024	8.4	0.07	0.03	1.78	1.54	1.30	3.31	3.42	0.09	0.56	0.72
8/29/2024	8.6	0.11	0.04	1.78	1.53	1.29	3.30	3.40	0.08	0.54	0.68
8/30/2024	8.1	0.09	0.04	1.78	1.53	1.29	3.30	3.40	0.09	0.55	0.68
8/31/2024	8.0	0.06	0.03	1.84	1.53	1.28	3.30	3.39	0.09	0.54	0.69
Avg	8.7	0.16	0.08	1.58	1.54	1.30	3.32	3.42	0.09	0.57	0.70
Min	7.4	0.02	0.01	1.18	1.42	1.27	3.30	3.38	0.06	0.54	0.68
Max	10.9	0.35	0.19	1.84	1.69	1.33	3.32	3.45	0.10	0.57	0.72

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	Calculated	TIT-1000	Calculated	Calculated
8/1/2024	56.3	2,223	0.31	686	28.7	25.0	8.6	426	1.28	272	958	22.2	2.00	Y
8/2/2024	58.6	2,135	0.34	719	28.9	23.8	8.7	413	1.28	263	982	21.9	2.00	Y
8/3/2024	68.8	1,818	0.28	513	28.9	23.6	9.0	400	1.28	255	768	21.7	2.00	Y
8/4/2024	73.6	1,699	0.16	267	28.9	25.2	8.6	430	1.25	270	537	22.6	2.00	Y
8/5/2024	74.6	1,677	0.06	94	28.7	24.3	8.1	448	1.24	278	372	21.4	2.00	Y
8/6/2024	65.4	1,913	0.02	37	28.2	21.3	7.0	483	1.17	283	320	21.2	2.00	Y
8/7/2024	49.2	2,541	0.11	268	28.7	25.4	7.8	474	1.22	289	557	22.3	2.00	Y
8/8/2024	53.0	2,360	0.05	112	28.7	23.9	7.5	483	1.28	308	420	23.2	2.00	Y
8/9/2024	64.3	1,946	0.03	57	28.8	25.3	8.1	457	1.23	281	338	22.4	2.00	Y
8/10/2024	73.0	1,713	0.04	66	28.7	23.5	7.7	463	1.24	287	353	21.0	2.00	Y
8/11/2024	74.0	1,691	0.04	63	28.8	22.4	7.7	457	1.25	285	348	21.1	2.00	Y
8/12/2024	64.9	1,927	0.17	327	28.8	22.1	8.3	422	1.26	266	593	21.0	2.00	Y
8/13/2024	62.6	1,998	0.34	674	28.8	21.1	8.6	398	1.24	247	921	22.3	2.00	Y
8/14/2024	63.4	1,973	0.27	541	28.8	21.8	8.8	396	1.26	250	790	22.3	2.00	Y
8/15/2024	62.5	2,000	0.28	567	28.8	23.0	8.3	427	1.28	273	840	22.2	2.00	Y
8/16/2024	59.3	2,108	0.29	616	28.7	22.9	7.3	481	1.25	302	918	22.2	2.00	Y
8/17/2024	59.9	2,087	0.27	568	28.7	23.6	6.7	532	1.25	332	900	21.9	2.00	Y
8/18/2024	64.5	1,938	0.35	684	28.7	25.4	7.2	513	1.28	329	1013	21.7	2.00	Y
8/19/2024	65.4	1,914	0.31	600	28.9	22.8	8.1	435	1.28	278	878	21.3	2.00	Y
8/20/2024	52.9	2,366	0.17	408	28.7	24.0	7.6	475	1.26	300	707	21.2	2.00	Y
8/21/2024	49.6	2,524	0.05	136	28.7	22.1	7.7	451	1.21	272	407	21.2	2.00	Y
8/22/2024	339.5	368	0.09	34	28.7	22.9	8.0	443	1.28	282	316	21.2	2.00	Y
8/23/2024	340.2	368	0.09	33	28.8	23.0	8.6	414	1.25	259	292	21.2	2.00	Y
8/24/2024	69.5	1,801	0.16	283	29.0	23.5	8.6	419	1.28	267	551	21.9	2.00	Y
8/25/2024	70.3	1,778	0.19	330	28.4	22.6	8.4	415	1.22	253	583	23.3	2.00	Y
8/26/2024	70.2	1,781	0.14	250	28.8	22.9	10.2	348	1.28	223	473	23.1	2.00	Y
8/27/2024	60.4	2,072	0.09	184	28.7	23.0	7.6	464	1.25	291	475	23.4	2.00	Y
8/28/2024	59.1	2,118	0.07	156	28.7	23.8	7.8	463	1.24	287	443	23.4	2.00	Y
8/29/2024	52.6	2,379	0.11	264	28.6	22.9	7.7	456	1.25	286	551	22.3	2.00	Y
8/30/2024	51.4	2,435	0.09	211	28.7	23.9	7.5	481	1.25	302	513	22.3	2.00	Y
8/31/2024	60.9	2,055	0.06	133	28.7	24.9	7.5	490	1.20	294	428	22.2	2.00	Y
Avg	80.3	1,926	0.16	319	28.7	23.4	8.0	447	1.25	280	598	22.0	2.00	NA
Min	49.2	368	0.02	33	28.2	21.1	6.7	348	1.17	223	292	21.0	2.00	NA
Max	340.2	2,541	0.35	719	29.0	25.4	10.2	532	1.28	332	1013	23.4	2.00	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: Date	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	
	8/1/2024						0.92	1.07		0.81	0.15	0.69	0.77	0.34	0.61	0.67									
8/2/2024																									
8/3/2024																									
8/4/2024																									
8/5/2024																									
8/6/2024	0.40	0.41	0.37	0.28	0.98											0.67	0.73	0.67	0.62	0.48		0.25		1.03	
8/7/2024									0.87	0.51	0.71	0.79	0.36	1.02	0.65										
8/8/2024								0.98													0.89				
8/9/2024																									
8/10/2024																									
8/11/2024																									
8/12/2024																									
8/13/2024				0.20	0.99				0.88	0.48	0.57	0.83	0.31	1.03	0.68	0.69	0.70	0.72	0.48	0.30			0.21		0.98
8/14/2024																									
8/15/2024									0.84	0.53	0.63	0.82	0.47	1.03	0.70										
8/16/2024																									
8/17/2024																									
8/18/2024																									
8/19/2024																									1.13
8/20/2024		0.38	0.28	0.43	1.00																				
8/21/2024																									
8/22/2024											0.46	0.61	0.77	0.39	1.01	0.54									
8/23/2024																									
8/24/2024																									
8/25/2024																									
8/26/2024																									
8/27/2024																									
8/28/2024									0.82	0.46	0.60	0.74	0.44	0.96	0.67										1.04
8/29/2024																									
8/30/2024																									
8/31/2024																									
Average	0.40			0.53				0.99					0.66							0.61		0.89		0.23	1.05
Min	0.40			0.20				0.92					0.15							0.30		0.89		0.21	0.98
Max	0.40			1.00				1.07					1.03							0.73		0.89		0.25	1.13

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
	Date	Fraser Twp.		Hampton Twp.				Kawkawlin Twp.			Kawkawlin Met.		Linwood, LMWD		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.		
	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
8/1/2024		0.75	0.72	0.38	0.58	0.38	1.20	0.57		0.68		0.70				0.90	0.52	0.56	0.52		0.25						
8/2/2024																											
8/3/2024																											
8/4/2024																											
8/5/2024																											
8/6/2024														0.39								0.38		0.64	0.77	0.53	0.32
8/7/2024																											
8/8/2024	0.28			0.33	0.40	0.15			0.93	0.58						0.98	0.60	0.56	0.34		0.57						
8/9/2024																											
8/10/2024																											
8/11/2024																											
8/12/2024																											
8/13/2024														0.32										0.33	0.54	0.30	
8/14/2024																											
8/15/2024				0.55	0.56	0.41																					
8/16/2024																											
8/17/2024																											
8/18/2024																											
8/19/2024																											
8/20/2024																0.96	0.71										
8/21/2024																											
8/22/2024																											
8/23/2024																											
8/24/2024																											
8/25/2024																											
8/26/2024																											
8/27/2024																											
8/28/2024																											
8/29/2024																											
8/30/2024																											
8/31/2024																											
Average	0.52			0.45			0.90			0.63		0.70		0.36		0.72			0.43		0.41		0.38		0.52	0.32	
Min	0.28			0.15			0.57			0.58		0.70		0.32		0.52			0.34		0.25		0.38		0.30	0.32	
Max	0.75			0.72			1.20			0.68		0.70		0.39		0.98			0.52		0.57		0.38		0.77	0.32	

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 Environmental Health Water Supplier Bacteriological Analysis Report				Name of Water Supply			
				Bay Area Water Treatment Plant			
				August, 2024			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.40	1	1	0	0
BAY	Bangor Township	0390	0.53	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.99	3	3	0	0
BAY	Bay City	0470	0.66	30	41	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.61	9	10	0	0
BAY	Beaver Road Area	0517	0.89	1	1	0	0
BAY	Beaver Township	0518	0.23	2	2	0	0
BAY	Essexville	2180	1.05	4	4	0	0
BAY	Fraser Township	2465	0.52	2	2	0	0
BAY	Hampton Township	2960	0.45	10	10	0	0
BAY	Kawkawlin Township	3565	0.90	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.63	2	2	0	0
BAY	Linwood Metro Water District	3910	0.70	1	1	0	0
BAY	Merritt Township	4280	0.36	2	2	0	0
BAY	Monitor Township	4440	0.72	6	8	0	0
BAY	City of Pinconning	5330	0.43	2	2	0	0
BAY	Pinconning Township	5335	0.41	2	2	0	0
BAY	Portsmouth Township	5540	0.38	1	1	0	0
BAY	Williams Township	7125	0.52	6	6	0	0
Tuscola	Wisner	7134	0.32	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.58	mg/L			
1. Total distribution samples			112				
2. Total distribution samples with detectable free cl2 residual			112				
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%				