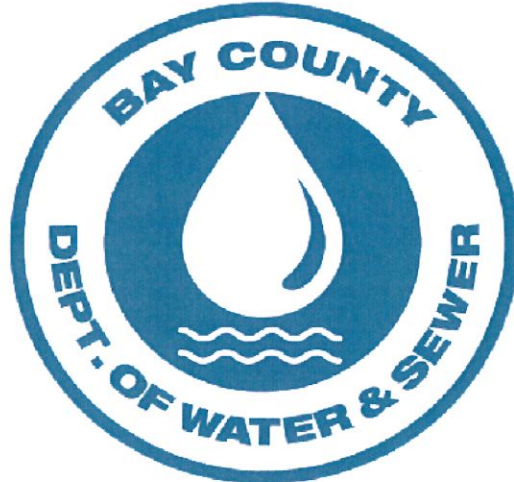


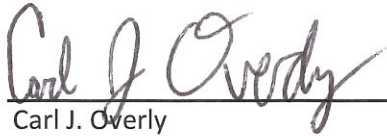
Bay Area WTP

Monthly Operations Report



October, 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

October, 2024
 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>8.2</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>16.37</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>30.51</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,374</u>	Gallons	Estimated Supply:	<u>34.4</u>	days
Caustic Soda on hand:	<u>3,019</u>	Gallons	Estimated Supply:	<u>206.8</u>	days
Corrosion Inhibitor on hand:	<u>644</u>	Gallons	Estimated Supply:	<u>28.1</u>	days
Hydrofluosilicic Acid on hand:	<u>1,203</u>	Gallons	Estimated Supply:	<u>68.8</u>	days
Aluminum Chlorohydrate on hand:	<u>257</u>	Gallons	Estimated Supply:	<u>27.7</u>	days
Sulfuric Acid on hand:	<u>93</u>	Gallons	Estimated Supply:	<u>46.4</u>	days
Sodium Bisulfite on hand:	<u>193</u>	Gallons	Estimated Supply:	<u>66.6</u>	days
Citric Acid on hand:	<u>2,811</u>	Gallons	Estimated Supply:	<u>224.9</u>	days
Cost of All Chemicals per Million Gallons:	<u>122.00</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>1,378.29</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>3.83</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

North Euclid Raw water delivery line to plant was closed for the season on Thursday 10/31 by Whitestone.
 Filter #6 out for Membrane replacement at 0810 on 10/14/24 and back in service at 1630 on 10/28/24.
 The compressed air used for train 1 had its 15 psi regulator drift up causing a few of the AHT/PDT fail to start.
 This didn't cause failed AHT/PDT tests but needed to be corrected. Regulators were calibrated and rebuild kits have been ordered.
 On the 30th we made adjustments to the backwash triggers for the filtering skids. These were previously all time and they are now all set for volume. Volume setpoints were determined by current skid performance. In November we will review the impact of this change.

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
10/1/2024	2.31	6.00	8.32	0.16	0.25	7.43	3.67	3.19	6.86
10/2/2024	2.30	5.11	7.41	0.25	0.13	7.48	3.65	3.17	6.82
10/3/2024	2.30	5.32	7.62	0.25	0.08	7.74	3.77	3.29	7.06
10/4/2024	2.40	5.48	7.88	0.29	0.08	7.51	3.71	3.21	6.92
10/5/2024	2.80	4.47	7.26	0.28	0.08	8.24	4.05	3.58	7.63
10/6/2024	2.96	5.31	8.27	0.39	0.08	7.82	3.79	3.34	7.13
10/7/2024	4.13	4.38	8.52	0.31	0.08	8.08	3.87	3.40	7.27
10/8/2024	4.07	3.67	7.75	0.35	0.08	7.94	3.88	3.42	7.30
10/9/2024	4.03	3.44	7.47	0.29	0.10	7.61	3.74	3.29	7.03
10/10/2024	3.95	3.65	7.60	0.27	0.14	7.35	3.66	3.19	6.85
10/11/2024	4.05	3.82	7.87	0.14	0.25	8.07	3.86	3.37	7.23
10/12/2024	4.61	3.89	8.50	0.11	0.25	7.02	3.51	3.05	6.56
10/13/2024	3.14	3.96	7.10	0.13	0.25	7.52	3.58	3.13	6.72
10/14/2024	3.14	4.90	8.05	0.13	0.25	7.52	3.59	3.13	6.72
10/15/2024	1.88	5.48	7.36	0.10	0.25	7.05	3.44	2.97	6.41
10/16/2024	1.87	5.39	7.27	0.16	0.22	7.28	3.57	3.11	6.68
10/17/2024	1.87	5.29	7.17	0.13	0.25	6.92	3.29	2.83	6.12
10/18/2024	1.95	5.35	7.31	0.26	0.15	7.12	3.46	3.02	6.48
10/19/2024	2.27	4.82	7.09	0.26	0.08	6.72	3.36	2.94	6.30
10/20/2024	2.16	4.73	6.89	0.16	0.22	7.30	3.52	3.12	6.64
10/21/2024	1.95	4.90	6.85	0.19	0.19	6.92	3.38	2.99	6.37
10/22/2024	1.88	5.42	7.29	0.12	0.25	7.37	3.53	3.09	6.62
10/23/2024	1.86	5.78	7.65	0.21	0.13	7.04	3.45	3.06	6.51
10/24/2024	1.87	5.48	7.35	0.15	0.22	6.98	3.33	2.90	6.24
10/25/2024	1.77	4.80	6.57	0.19	0.21	6.68	3.25	2.82	6.07
10/26/2024	1.28	4.57	5.86	0.06	0.25	6.21	3.11	2.69	5.80
10/27/2024	1.30	4.82	6.12	0.10	0.25	6.57	3.20	2.79	5.98
10/28/2024	2.27	5.42	7.69	0.21	0.17	7.20	3.42	2.98	6.40
10/29/2024	2.84	5.13	7.97	0.24	0.08	6.94	3.42	2.97	6.39
10/30/2024	1.03	6.26	7.29	0.25	0.08	7.08	3.44	2.99	6.43
10/31/2024	0.00	6.54	6.54	0.17	0.08	6.69	3.24	2.83	6.07
Total	76.29	153.59	229.88	6.30	5.22	225.41	109.74	95.88	205.62
Avg	2.46	4.95	7.42	0.20	0.17	7.27	3.54	3.09	6.63
Min	0.00	3.44	5.86	0.06	0.08	6.21	3.11	2.69	5.80
Max	4.61	6.54	8.52	0.39	0.25	8.24	4.05	3.58	7.63

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	
10/1/2024	20.1	7.86	0.97	1.39	0.08	0.06	Negative	Negative
10/2/2024	18.4	7.75	1.05	1.45	0.08	0.09	Negative	Negative
10/3/2024	18.4	7.77	0.73	10.01	0.08	0.18	Negative	Negative
10/4/2024	18.8	7.71	0.98	1.22	0.09	0.11	Negative	Negative
10/5/2024	18.0	7.71	0.94	1.63	0.09	0.25	Negative	Negative
10/6/2024	17.9	7.80	0.88	1.58	0.09	0.19	Negative	Negative
10/7/2024	17.5	7.78	0.99	1.10	0.09	0.07	Negative	Negative
10/8/2024	17.2	7.72	0.79	0.99	0.09	0.11	Negative	Negative
10/9/2024	16.8	7.67	0.74	1.07	0.09	0.17	Negative	Negative
10/10/2024	16.2	7.69	0.59	0.65	0.09	0.21	Negative	Negative
10/11/2024	16.7	7.72	0.56	0.75	0.08	0.25	Negative	Negative
10/12/2024	16.5	7.74	1.04	1.29	0.09	0.17	Negative	Negative
10/13/2024	16.2	7.76	0.72	1.16	0.09	0.22	Negative	Negative
10/14/2024	16.9	7.74	0.91	1.27	0.08	0.21	Negative	Negative
10/15/2024	17.1	7.78	3.61	6.06	0.09	0.08	Negative	Negative
10/16/2024	16.8	7.67	6.06	8.06	0.09	0.07	Negative	Negative
10/17/2024	16.3	7.70	4.77	10.01	0.09	0.07	Negative	Negative
10/18/2024	16.0	7.73	3.11	4.57	0.10	0.04	Negative	Negative
10/19/2024	15.7	7.74	3.01	3.56	0.10	0.07	Negative	Negative
10/20/2024	15.5	7.74	1.99	3.10	0.10	0.14	Negative	Negative
10/21/2024	15.5	7.76	1.40	10.01	0.09	0.13	Negative	Negative
10/22/2024	15.4	7.87	0.90	9.98	0.09	0.19	Negative	Negative
10/23/2024	15.6	7.96	0.76	1.01	0.09	0.17	Negative	Negative
10/24/2024	15.3	7.95	0.70	0.92	0.09	0.17	Negative	Negative
10/25/2024	15.4	7.96	0.68	0.86	0.08	0.16	Negative	Negative
10/26/2024	15.0	8.00	0.89	1.10	0.09	0.12	Negative	Negative
10/27/2024	14.8	7.98	0.86	1.10	0.09	0.16	Negative	Negative
10/28/2024	14.6	7.95	0.79	1.31	0.09	0.21	Negative	Negative
10/29/2024	15.4	7.96	0.63	0.74	0.08	0.21	Negative	Negative
10/30/2024	15.8	7.98	0.77	0.98	0.09	0.16	Negative	Negative
10/31/2024	15.9	8.00	0.92	1.34	0.09	0.10	Negative	Negative
Avg	16.5	7.81	1.41	2.91	0.09	0.15	NA	NA
Min	14.6	7.67	0.56	0.65	0.08	0.04	NA	NA
Max	20.1	8.00	6.06	10.01	0.10	0.25	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				Total Coliform	E. coli
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab		Lab	Lab	Lab	Lab	Lab				Calculated	
10/1/2024	20.3	7.62	3.39	0.68		1.30	0	80	14	11	78	8.7	260	-0.54	1.25	0.48	Negative	Negative
10/2/2024	20.0	7.58	3.40	0.69		1.30	0	82	11	12	76	7.9	258	-0.59	0.95	0.43	Negative	Negative
10/3/2024	19.8	7.53	3.40	0.68		1.30	0	84	13	11	72	8.6	261	-0.66	1.21	0.44	Negative	Negative
10/4/2024	19.8	7.46	3.41	0.68		1.30	0	82	14	11	70	8.7	259	-0.75	1.23	0.46	Negative	Negative
10/5/2024	19.6	7.49	3.39	0.68		1.30	0	83	14	12	70	8.6	265	-0.73	1.18	0.48	Negative	Negative
10/6/2024	19.6	7.49	3.40	0.70		1.30	0	85	14	12	76	8.7	267	-0.68	1.16	0.46	Negative	Negative
10/7/2024	19.1	7.65	3.39	0.69	0.67	1.30	0	84	14	10	72	8.7	270	-0.56	1.43	0.45	Negative	Negative
10/8/2024	18.7	7.78	3.38	0.69		1.29	0	84	14	12	72	8.6	270	-0.44	1.13	0.46	Negative	Negative
10/9/2024	18.4	7.84	3.38	0.70		1.31	0	80	14	12	70	8.8	274	-0.42	1.13	0.48	Negative	Negative
10/10/2024	18.0	7.67	3.36	0.69		1.31	0	83	15	12	74	8.9	269	-0.56	1.22	0.49	Negative	Negative
10/11/2024	18.3	7.44	3.38	0.69		1.33	0	80	14	11	74	9.0	261	-0.79	1.25	0.48	Negative	Negative
10/12/2024	18.2	7.50	3.38	0.69		1.30	0	80	14	12	76	9.0	265	-0.72	1.13	0.49	Negative	Negative
10/13/2024	17.9	7.53	3.37	0.69		1.29	0	80	13	12	78	8.8	264	-0.69	1.08	0.47	Negative	Negative
10/14/2024	17.3	7.59	3.36	0.69	0.67	1.29	0	81	13	12	76	9.5	261	-0.65	1.08	0.47	Negative	Negative
10/15/2024	17.2	7.53	3.36	0.69		1.28	0	80	13	12	76	9.3	265	-0.72	1.11	0.48	Negative	Negative
10/16/2024	16.9	7.57	3.37	0.69		1.27	0	83	15	12	76	9.0	270	-0.67	1.22	0.49	Negative	Negative
10/17/2024	16.6	7.53	3.38	0.70		1.29	0	82	13	12	74	9.4	260	-0.73	1.10	0.47	Negative	Negative
10/18/2024	16.2	7.54	3.38	0.72		1.30	0	84	13	13	70	9.2	268	-0.74	1.03	0.47	Negative	Negative
10/19/2024	15.8	7.60	3.39	0.73		1.27	0	80	14	12	70	10.0	284	-0.73	1.13	0.49	Negative	Negative
10/20/2024	15.5	7.65	3.37	0.73		1.29	0	83	14	12	72	9.9	288	-0.65	1.13	0.47	Negative	Negative
10/21/2024	15.6	7.58	3.36	0.72	0.68	1.29	0	86	14	13	74	9.7	282	-0.69	1.09	0.48	Negative	Negative
10/22/2024	15.5	7.63	3.37	0.72		1.29	0	87	14	12	70	9.9	275	-0.66	1.20	0.46	Negative	Negative
10/23/2024	15.5	7.77	3.37	0.72		1.31	0	87	13	14	82	9.8	265	-0.45	0.95	0.47	Negative	Negative
10/24/2024	15.2	7.69	3.37	0.70		1.32	0	81	13	11	76	9.7	264	-0.60	1.20	0.46	Negative	Negative
10/25/2024	15.1	7.70	3.38	0.70		1.31	0	81	13	13	74	9.9	282	-0.61	1.00	0.48	Negative	Negative
10/26/2024	15.0	7.76	3.36	0.70		1.31	0	82	13	13	74	9.8	244	-0.53	0.98	0.47	Negative	Negative
10/27/2024	14.8	7.83	3.36	0.71		1.28	0	81	13	14	74	16.5	224	-0.47	0.94	0.50	Negative	Negative
10/28/2024	14.7	7.82	3.36	0.70	0.72	1.31	0	82	13	13	76	13.2	222	-0.47	0.98	0.47	Negative	Negative
10/29/2024	14.6	7.77	3.36	0.70		1.29	0	81	13	13	72	15.7	219	-0.54	0.98	0.48	Negative	Negative
10/30/2024	14.8	7.67	3.36	0.70		1.30	0	82	13	13	76	9.9	221	-0.61	0.97	0.47	Negative	Negative
10/31/2024	14.7	7.67	3.37	0.71		1.28	0	82	13	12	76	9.0	239	-0.62	1.08	0.46	Negative	Negative
Avg	17.1	7.63	3.38	0.70	0.69	1.30	0	82	13	12	74	9.8	261	-0.62	1.11	0.47	NA	NA
Min	14.6	7.44	3.36	0.68	0.67	1.27	0	80	11	10	70	7.9	219	-0.79	0.94	0.43	NA	NA
Max	20.3	7.84	3.41	0.73	0.72	1.33	0	87	15	14	82	16.5	288	-0.42	1.43	0.50	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
10/1/2024	0.97	1.39	27.19	1.12	0.032	0.033	96	0	0.0	0.026
10/2/2024	1.05	1.45	17.37	0.95	0.031	0.032	96	0	0.0	0.026
10/3/2024	0.73	10.01	9.20	0.90	0.029	0.033	96	0	0.0	0.025
10/4/2024	0.98	1.22	18.00	0.82	0.027	0.029	96	0	0.0	0.023
10/5/2024	0.94	1.63	35.95	0.91	0.027	0.028	96	0	0.0	0.023
10/6/2024	0.88	1.58	55.65	0.97	0.027	0.028	96	0	0.0	0.023
10/7/2024	0.99	1.10	66.95	0.97	0.027	0.029	96	0	0.0	0.023
10/8/2024	0.79	0.99	75.86	0.99	0.027	0.028	96	0	0.0	0.023
10/9/2024	0.74	1.07	65.64	0.94	0.026	0.027	96	0	0.0	0.023
10/10/2024	0.59	0.65	51.52	0.79	0.025	0.027	96	0	0.0	0.023
10/11/2024	0.56	0.75	6.55	0.65	0.025	0.026	96	0	0.0	0.023
10/12/2024	1.04	1.29	6.83	0.76	0.025	0.027	96	0	0.0	0.023
10/13/2024	0.72	1.16	13.54	0.81	0.025	0.027	96	0	0.0	0.023
10/14/2024	0.91	1.27	5.97	0.76	0.025	0.026	96	0	0.0	0.023
10/15/2024	3.61	6.06	12.44	1.27	0.026	0.027	96	0	0.0	0.023
10/16/2024	6.06	8.06	21.28	2.76	0.026	0.028	96	0	0.0	0.023
10/17/2024	4.77	10.01	5.50	3.67	0.026	0.027	96	0	0.0	0.023
10/18/2024	3.11	4.57	8.14	3.46	0.026	0.026	96	0	0.0	0.023
10/19/2024	3.01	3.56	22.09	2.87	0.026	0.027	96	0	0.0	0.024
10/20/2024	1.99	3.10	17.99	2.55	0.027	0.027	96	0	0.0	0.024
10/21/2024	1.40	10.01	19.01	2.05	0.026	0.036	96	0	0.0	0.024
10/22/2024	0.90	9.98	10.19	1.56	0.026	0.028	96	0	0.0	0.024
10/23/2024	0.76	1.01	21.87	1.21	0.024	0.026	96	0	0.0	0.023
10/24/2024	0.70	0.92	24.17	1.13	0.024	0.026	96	0	0.0	0.023
10/25/2024	0.68	0.86	6.80	1.03	0.024	0.025	96	0	0.0	0.022
10/26/2024	0.89	1.10	5.50	1.05	0.024	0.026	96	0	0.0	0.023
10/27/2024	0.86	1.10	3.96	1.11	0.025	0.026	96	0	0.0	0.023
10/28/2024	0.79	1.31	9.71	1.10	0.024	0.025	96	0	0.0	0.023
10/29/2024	0.63	0.74	9.06	1.01	0.024	0.025	96	0	0.0	0.022
10/30/2024	0.77	0.98	10.52	0.99	0.024	0.025	96	0	0.0	0.022
10/31/2024	0.92	1.34	15.08	1.08	0.025	0.026	96	0	0.0	0.023
Avg	1.41	2.91	21.92	1.36	0.026	0.028	96	0	0.0	0.023
Min	0.56	0.65	3.96	0.65	0.024	0.025	96	0	0.0	0.022
Max	6.06	10.01	75.86	3.67	0.032	0.036	96	0	0.0	0.026

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

Date	Membrane LRV/Integrity/Max Turbidity																									
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8				
	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity		
	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max		
Daily Value	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	Daily Value	Pass/Fail	NTU
10/1/2024	5.41	PASS	0.030	5.15	PASS	0.035	5.38	PASS	0.029	4.06	PASS	0.029	5.25	PASS	0.028	4.08	PASS	0.029	3.96	PASS	0.029	5.30	PASS	0.031		
10/2/2024	5.41	PASS	0.030	5.15	PASS	0.034	5.40	PASS	0.030	4.10	PASS	0.029	5.22	PASS	0.028	4.03	PASS	0.029	4.03	PASS	0.029	5.35	PASS	0.029		
10/3/2024	5.44	PASS	0.030	5.16	PASS	0.034	5.39	PASS	0.029	4.08	PASS	0.029	5.21	PASS	0.028	4.05	PASS	0.029	4.00	PASS	0.029	5.36	PASS	0.029		
10/4/2024	5.46	PASS	0.023	5.13	PASS	0.026	5.38	PASS	0.024	4.07	PASS	0.024	5.27	PASS	0.022	4.07	PASS	0.023	3.97	PASS	0.023	5.36	PASS	0.023		
10/5/2024	5.37	PASS	0.023	5.08	PASS	0.027	5.37	PASS	0.024	4.04	PASS	0.024	5.25	PASS	0.023	4.04	PASS	0.023	3.96	PASS	0.023	5.33	PASS	0.023		
10/6/2024	5.30	PASS	0.023	5.05	PASS	0.026	5.32	PASS	0.024	3.99	PASS	0.024	5.18	PASS	0.022	3.97	PASS	0.023	3.94	PASS	0.024	5.24	PASS	0.023		
10/7/2024	5.34	PASS	0.024	5.06	PASS	0.027	5.33	PASS	0.025	4.01	PASS	0.025	5.20	PASS	0.023	3.99	PASS	0.044	3.95	PASS	0.024	5.12	PASS	0.025		
10/8/2024	5.25	PASS	0.024	4.92	PASS	0.027	5.14	PASS	0.024	3.96	PASS	0.025	5.19	PASS	0.023	3.94	PASS	0.024	3.91	PASS	0.024	5.12	PASS	0.024		
10/9/2024	5.26	PASS	0.024	4.93	PASS	0.026	5.13	PASS	0.024	3.95	PASS	0.024	5.09	PASS	0.023	3.93	PASS	0.024	3.91	PASS	0.023	5.12	PASS	0.023		
10/10/2024	5.32	PASS	0.023	4.89	PASS	0.026	5.23	PASS	0.024	3.99	PASS	0.024	5.12	PASS	0.023	3.96	PASS	0.023	3.93	PASS	0.023	5.20	PASS	0.023		
10/11/2024	5.39	PASS	0.022	4.95	PASS	0.026	5.38	PASS	0.023	4.08	PASS	0.023	5.19	PASS	0.022	4.06	PASS	0.023	4.03	PASS	0.022	5.29	PASS	0.022		
10/12/2024	5.44	PASS	0.023	5.10	PASS	0.025	5.39	PASS	0.024	4.07	PASS	0.024	5.26	PASS	0.022	4.11	PASS	0.023	4.01	PASS	0.023	5.35	PASS	0.023		
10/13/2024	5.39	PASS	0.023	5.13	PASS	0.025	5.38	PASS	0.024	4.06	PASS	0.023	5.24	PASS	0.022	4.10	PASS	0.023	3.99	PASS	0.023	5.34	PASS	0.023		
10/14/2024	5.40	PASS	0.023	5.13	PASS	0.025	5.39	PASS	0.023	4.10	PASS	0.024	5.24	PASS	0.022	4.14	PASS	0.022	3.99	PASS	0.023	5.36	PASS	0.023		
10/15/2024	5.37	PASS	0.023	5.10	PASS	0.026	5.36	PASS	0.024	4.04	PASS	0.029	5.23	PASS	0.023				4.00	PASS	0.023	5.33	PASS	0.023		
10/16/2024	5.36	PASS	0.024	5.05	PASS	0.027	5.29	PASS	0.024	4.03	PASS	0.025	5.15	PASS	0.023				3.96	PASS	0.024	5.38	PASS	0.024		
10/17/2024	5.40	PASS	0.023	5.11	PASS	0.027	5.38	PASS	0.024	4.04	PASS	0.025	5.23	PASS	0.023				3.93	PASS	0.023	5.39	PASS	0.023		
10/18/2024	5.43	PASS	0.024	5.09	PASS	0.027	4.96	PASS	0.025	3.99	PASS	0.025	5.16	PASS	0.024				3.91	PASS	0.024	5.24	PASS	0.024		
10/19/2024	5.32	PASS	0.025	5.07	PASS	0.027	4.95	PASS	0.025	3.88	PASS	0.025	5.23	PASS	0.024				3.92	PASS	0.024	5.21	PASS	0.024		
10/20/2024	5.37	PASS	0.025	5.09	PASS	0.028	5.35	PASS	0.026	3.88	PASS	0.026	5.21	PASS	0.024				3.91	PASS	0.025	5.49	PASS	0.024		
10/21/2024	5.35	PASS	0.024	5.06	PASS	0.028	5.29	PASS	0.025	3.88	PASS	0.025	5.17	PASS	0.024	Skid out of service for membrane replacement			3.93	PASS	0.024	5.28	PASS	0.024		
10/22/2024	5.34	PASS	0.024	5.10	PASS	0.028	5.34	PASS	0.025	3.88	PASS	0.025	5.21	PASS	0.031				3.93	PASS	0.024	5.33	PASS	0.023		
10/23/2024	5.36	PASS	0.023	5.11	PASS	0.026	5.39	PASS	0.024	3.91	PASS	0.024	5.27	PASS	0.023				3.94	PASS	0.023	5.34	PASS	0.022		
10/24/2024	5.43	PASS	0.023	5.10	PASS	0.025	5.45	PASS	0.024	3.91	PASS	0.023	5.28	PASS	0.022				3.94	PASS	0.023	5.38	PASS	0.022		
10/25/2024	5.51	PASS	0.023	5.11	PASS	0.025	5.49	PASS	0.023	3.93	PASS	0.023	5.29	PASS	0.022				3.98	PASS	0.022	5.41	PASS	0.022		
10/26/2024	5.41	PASS	0.023	5.13	PASS	0.025	5.40	PASS	0.024	3.92	PASS	0.024	5.27	PASS	0.027				3.97	PASS	0.023	5.43	PASS	0.022		
10/27/2024	5.39	PASS	0.023	5.12	PASS	0.026	5.40	PASS	0.024	3.95	PASS	0.024	5.27	PASS	0.023				3.98	PASS	0.023	5.65	PASS	0.023		
10/28/2024	5.38	PASS	0.023	5.08	PASS	0.026	5.40	PASS	0.024	3.93	PASS	0.024	5.29	PASS	0.023				3.95	PASS	0.023	5.41	PASS	0.023		
10/29/2024	5.41	PASS	0.023	5.08	PASS	0.025	5.43	PASS	0.024	3.92	PASS	0.023	5.26	PASS	0.023	5.51	PASS	0.028	3.95	PASS	0.022	5.39	PASS	0.022		
10/30/2024	5.40	PASS	0.023	5.09	PASS	0.025	5.38	PASS	0.024	3.91	PASS	0.023	5.24	PASS	0.026	4.88	PASS	0.023	3.98	PASS	0.023	5.33	PASS	0.022		
10/31/2024	5.40	PASS	0.023	5.08	PASS	0.026	5.37	PASS	0.024	3.89	PASS	0.024	5.25	PASS	0.023	4.87	PASS	0.024	3.96	PASS	0.023	5.34	PASS	0.023		
Avg	5.38		0.024	5.08		0.027	5.33		0.025	3.98		0.025	5.22		0.024	4.29		0.026	3.96		0.024	5.33		0.024		
Min	5.25		0.022	4.89		0.025	4.95		0.023	3.88		0.023	5.09		0.022	3.93		0.022	3.91		0.022	5.12		0.022		
Max	5.51		0.030	5.16		0.035	5.49		0.030	4.10		0.029	5.29		0.031	5.51		0.044	4.03		0.029	5.65		0.031		

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	10/2024	Skid 6
Skid 7	8/2015	1/2023	Skid 8

Treatment Chemical Dosages											
Date	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydrofluorosilicic Acid		
		Raw Water	Membrane Feed Water	Dose pre-FW Tanks	Treated Water	Post FW Tanks	Dose pre-FW Tanks	Post FW Tanks	Raw Water	Dose pre-FW Tanks	Post FW Tanks
	Volume	Free Cl ₂					PO ₄		F		
	MG	mg/L					mg/L		mg/L		
	FIT-4000-1	AIT-1035-2	AIT-1035-4	Added	AIT-4030-1	AIT-4050-1	Added	AIT-4040-5	Lab	Added	Lab
10/1/2024	7.4	0.06	0.02	1.36	1.52	1.30	3.29	3.39	0.08	0.55	0.68
10/2/2024	7.5	0.09	0.02	1.38	1.51	1.30	3.29	3.40	0.08	0.55	0.69
10/3/2024	7.7	0.18	0.03	1.32	1.50	1.30	3.29	3.40	0.08	0.55	0.68
10/4/2024	7.5	0.11	0.04	1.34	1.47	1.30	3.29	3.41	0.09	0.55	0.68
10/5/2024	8.2	0.25	0.05	1.32	1.51	1.30	3.29	3.39	0.09	0.55	0.68
10/6/2024	7.8	0.19	0.05	1.34	1.50	1.30	3.29	3.40	0.09	0.55	0.70
10/7/2024	8.1	0.07	0.04	1.34	1.48	1.30	3.29	3.39	0.09	0.55	0.69
10/8/2024	7.9	0.11	0.03	1.42	1.54	1.29	3.29	3.38	0.09	0.55	0.69
10/9/2024	7.6	0.17	0.03	1.38	1.51	1.31	3.29	3.38	0.09	0.55	0.70
10/10/2024	7.4	0.21	0.05	1.36	1.51	1.31	3.29	3.36	0.09	0.55	0.69
10/11/2024	8.1	0.25	0.07	1.30	1.50	1.33	3.29	3.38	0.08	0.55	0.69
10/12/2024	7.0	0.17	0.06	1.34	1.46	1.30	3.29	3.38	0.09	0.55	0.69
10/13/2024	7.5	0.22	0.07	1.34	1.49	1.29	3.29	3.37	0.09	0.55	0.69
10/14/2024	7.5	0.21	0.07	1.36	1.50	1.29	3.29	3.36	0.08	0.55	0.69
10/15/2024	7.0	0.08	0.04	1.43	1.48	1.28	3.29	3.36	0.09	0.55	0.69
10/16/2024	7.3	0.07	0.02	1.46	1.52	1.27	3.29	3.37	0.09	0.55	0.69
10/17/2024	6.9	0.07	0.02	1.48	1.55	1.29	3.29	3.38	0.09	0.55	0.70
10/18/2024	7.1	0.04	0.02	1.46	1.53	1.30	3.29	3.38	0.10	0.55	0.72
10/19/2024	6.7	0.07	0.02	1.50	1.54	1.27	3.29	3.39	0.10	0.55	0.73
10/20/2024	7.3	0.14	0.02	1.50	1.56	1.29	3.29	3.37	0.10	0.55	0.73
10/21/2024	6.9	0.13	0.03	1.44	1.51	1.29	3.29	3.36	0.09	0.55	0.72
10/22/2024	7.4	0.19	0.04	1.40	1.51	1.29	3.29	3.37	0.09	0.55	0.72
10/23/2024	7.0	0.17	0.07	1.40	1.52	1.31	3.29	3.37	0.09	0.55	0.72
10/24/2024	7.0	0.17	0.05	1.04	1.51	1.32	3.29	3.37	0.09	0.55	0.70
10/25/2024	6.7	0.16	0.05	1.10	1.52	1.31	3.29	3.38	0.08	0.55	0.70
10/26/2024	6.2	0.12	0.04	0.98	1.49	1.31	3.29	3.36	0.09	0.55	0.70
10/27/2024	6.6	0.16	0.05	1.02	1.49	1.28	3.29	3.36	0.09	0.55	0.71
10/28/2024	7.2	0.21	0.07	0.94	1.48	1.31	3.29	3.36	0.09	0.55	0.70
10/29/2024	6.9	0.21	0.08	0.96	1.52	1.29	3.29	3.36	0.08	0.55	0.70
10/30/2024	7.1	0.16	0.07	0.94	1.50	1.30	3.29	3.36	0.09	0.55	0.70
10/31/2024	6.7	0.10	0.05	1.00	1.51	1.28	3.29	3.37	0.09	0.55	0.71
Avg	7.3	0.15	0.04	1.29	1.51	1.30	3.29	3.38	0.09	0.55	0.70
Min	6.2	0.04	0.02	0.94	1.46	1.27	3.29	3.36	0.08	0.55	0.68
Max	8.2	0.25	0.08	1.50	1.56	1.33	3.29	3.41	0.10	0.55	0.73

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
10/1/2024	56.5	2,216	0.06	140	28.7	21.8	6.9	505	1.22	308	448	20.1	2.00	Y
10/2/2024	49.6	2,522	0.09	233	28.7	24.6	6.8	536	1.22	327	560	18.4	4.00	Y
10/3/2024	49.4	2,531	0.18	456	28.5	22.6	7.1	497	1.23	305	761	18.4	4.00	Y
10/4/2024	56.3	2,221	0.11	241	28.6	23.3	6.9	515	1.19	307	548	18.8	4.00	Y
10/5/2024	68.5	1,825	0.25	458	28.8	22.4	7.6	460	1.22	281	739	18.0	4.00	Y
10/6/2024	70.8	1,768	0.19	344	28.6	21.8	7.1	484	1.18	285	630	17.9	4.00	Y
10/7/2024	64.6	1,938	0.07	140	28.5	23.0	7.3	485	1.12	273	413	17.5	4.00	Y
10/8/2024	55.9	2,237	0.11	253	28.7	23.4	7.3	489	0.90	219	472	17.2	4.00	Y
10/9/2024	53.9	2,320	0.17	402	28.7	24.3	7.0	517	1.19	308	710	16.8	4.00	Y
10/10/2024	54.4	2,300	0.21	476	28.7	22.9	6.9	516	1.27	327	803	16.2	4.00	Y
10/11/2024	52.6	2,377	0.25	599	28.7	23.0	7.2	490	1.19	292	891	16.7	4.00	Y
10/12/2024	61.9	2,021	0.17	342	28.7	22.8	6.6	538	1.14	308	650	16.5	4.00	Y
10/13/2024	63.5	1,969	0.22	438	28.7	22.8	6.7	525	1.26	331	769	16.2	4.00	Y
10/14/2024	64.3	1,944	0.21	416	28.6	24.1	6.7	537	1.26	339	755	16.9	4.00	Y
10/15/2024	52.3	2,392	0.08	190	28.7	22.4	6.4	546	1.23	335	525	17.1	4.00	Y
10/16/2024	45.3	2,764	0.07	190	28.2	17.2	6.7	466	1.18	274	465	16.8	4.00	Y
10/17/2024	45.8	2,729	0.07	203	28.3	23.5	6.1	579	1.25	361	564	16.3	4.00	Y
10/18/2024	47.1	2,654	0.04	107	28.7	24.7	6.5	565	1.27	360	468	16.0	4.00	Y
10/19/2024	60.8	2,058	0.07	147	28.6	22.5	6.3	556	1.25	347	494	15.7	4.00	Y
10/20/2024	61.6	2,031	0.14	289	28.7	22.4	6.6	527	1.26	332	621	15.5	4.00	Y
10/21/2024	56.8	2,201	0.13	290	28.5	21.9	6.4	542	1.27	344	634	15.5	4.00	Y
10/22/2024	50.2	2,493	0.19	475	28.6	23.3	6.6	537	1.27	342	817	15.4	4.00	Y
10/23/2024	45.4	2,752	0.17	478	28.6	23.5	6.5	548	1.28	352	830	15.6	4.00	Y
10/24/2024	43.5	2,879	0.17	490	28.7	23.1	6.2	569	1.30	369	859	15.3	4.00	Y
10/25/2024	45.6	2,741	0.16	434	28.7	24.1	6.1	595	1.27	377	811	15.4	4.00	Y
10/26/2024	53.9	2,320	0.12	284	28.5	21.9	5.8	596	1.25	374	658	15.0	4.00	Y
10/27/2024	54.6	2,289	0.16	370	28.5	21.8	6.0	576	1.23	353	724	14.8	6.00	Y
10/28/2024	54.8	2,284	0.21	479	28.7	21.9	6.4	541	1.25	339	818	14.6	6.00	Y
10/29/2024	46.1	2,711	0.21	564	28.7	22.2	6.4	545	1.24	338	902	15.4	4.00	Y
10/30/2024	42.0	2,977	0.16	472	28.6	23.7	6.4	557	1.21	336	808	15.8	4.00	Y
10/31/2024	41.5	3,015	0.10	309	28.6	22.0	6.1	571	1.17	334	644	15.9	4.00	Y
Avg	53.9	2,370	0.15	345	28.6	22.7	6.6	533	1.22	325	671	16.5	4.06	NA
Min	41.5	1,768	0.04	107	28.2	17.2	5.8	460	0.90	219	413	14.6	2.00	NA
Max	70.8	3,015	0.25	599	28.8	24.7	7.6	596	1.30	377	902	20.1	6.00	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		
Date	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City						Bay County					Beaver Rd	Beaver Twp		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	
10/1/2024	0.04	0.74	0.30	0.35	0.90											0.80	0.86	0.89	0.67	0.39				0.98	
10/2/2024									0.81	0.48	0.51	0.88	0.41	1.05	0.59										
10/3/2024						0.82	0.92																		
10/4/2024																									
10/5/2024																									
10/6/2024																									
10/7/2024																									1.01
10/8/2024				0.36	1.01				0.88	0.58	0.68	0.91	0.51	1.19	0.65	0.82	0.87	0.96	0.45	0.42			0.21		
10/9/2024																					0.92				
10/10/2024								1.01	0.71	0.52	0.64	0.75	0.47	1.14	0.53										
10/11/2024																									
10/12/2024																									
10/13/2024																									
10/14/2024																									
10/15/2024		0.34	0.32	0.27	0.89																				1.06
10/16/2024									0.84	0.51	0.59	0.86	0.38	1.04	0.64										
10/17/2024																									
10/18/2024																									
10/19/2024																									
10/20/2024																									
10/21/2024																									
10/22/2024																									
10/23/2024									0.80	0.56	0.69	0.70	0.33	1.14	0.77										
10/24/2024																									
10/25/2024																									
10/26/2024																									
10/27/2024																									
10/28/2024																									
10/29/2024																									
10/30/2024									0.87	0.52	0.74	0.93	0.41	1.17	0.70										
10/31/2024																									
Average	0.04			0.55				0.92					0.72						0.71		0.92		0.27		0.99
Min	0.04			0.27				0.82					0.33						0.39		0.92		0.21		0.89
Max	0.04			1.01				1.01					1.19						0.96		0.92		0.32		1.06

MONITORING STATION ADDRESSES

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

Distribution System Monitoring																											
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl ₂)																											
WSSN:	2465		2960				3565			3570		3910		4280		4440			5330		5335		5540	7125			7134
	Fraser Twp.		Hampton Twp.				Kawkawlin Twp.			Kawkawlin Met.		Linwood, LMWD		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
Date	34	35	36	37	38	39	40	41	42	43	45	73	74	46	48	49	52	55	58	59	61	63	65	68	69	70	72
10/1/2024														0.21									0.37	0.50	0.69	0.29	0.22
10/2/2024																											
10/3/2024		0.78	0.70	0.23	0.35	0.34	0.98	0.66				0.46				0.64	0.54	0.62	0.51		0.63						
10/4/2024																											
10/5/2024																											
10/6/2024																											
10/7/2024																											
10/8/2024														0.22										0.61	0.67	0.62	
10/9/2024																											
10/10/2024	0.42			0.46	0.41	0.27			0.89	0.63						0.88	0.57	0.62	0.39		0.57						
10/11/2024																											
10/12/2024																											
10/13/2024																											
10/14/2024																											
10/15/2024																											
10/16/2024																											
10/17/2024				0.35	0.30	0.31				0.71						0.85	0.91										
10/18/2024																											
10/19/2024																											
10/20/2024																											
10/21/2024																											
10/22/2024																											
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10/27/2024																											
10/28/2024																											
10/29/2024																											
10/30/2024																											
10/31/2024																											
Average	0.60		0.37				0.84			0.67		0.46		0.22		0.70			0.45		0.60		0.37	0.56			0.22
Min	0.42		0.23				0.66			0.63		0.46		0.21		0.54			0.39		0.57		0.37	0.29			0.22
Max	0.78		0.70				0.98			0.71		0.46		0.22		0.91			0.51		0.63		0.37	0.69			0.22

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			
				October, 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	0.04	1	1	0	0
BAY	Bangor Township	0390	0.55	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.92	3	3	0	0
BAY	Bay City	0470	0.72	30	42	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	9	10	0	0
BAY	Beaver Road Area	0517	0.92	1	1	0	0
BAY	Beaver Township	0518	0.27	2	2	0	0
BAY	Essexville	2180	0.99	4	4	0	0
BAY	Fraser Township	2465	0.60	2	2	0	0
BAY	Hampton Township	2960	0.37	10	10	0	0
BAY	Kawkawlin Township	3565	0.84	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.67	2	2	0	0
BAY	Linwood Metro Water District	3910	0.46	1	1	0	0
BAY	Merritt Township	4280	0.22	2	2	0	0
BAY	Monitor Township	4440	0.70	6	8	0	0
BAY	City of Pinconning	5330	0.45	2	2	0	0
BAY	Pinconning Township	5335	0.60	2	2	0	0
BAY	Portsmouth Township	5540	0.37	1	1	0	0
BAY	Williams Township	7125	0.56	6	6	0	0
Tuscola	Wisner	7134	0.22	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites				0.56	98	mg/L	
1. Total distribution samples				113			
2. Total distribution samples with detectable free cl2 residual				113			
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%			