

Bay Area WTP


Monthly Operations Report



December, 2022

Water Systems Serial Number:

0465



Ryan Goebel

Water Plant Superintendent

Title

F-1

Classification



Mike Wagar

Operations Supervisor

Title

F-2

Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
 WSSN: 0465

Ryan Goebel
 Operator-in-charge

December, 2022
 Month, Year

F-1
 Certification of Operator-in-charge

F-1
 Water Plant Classification

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>7.6</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>15.13</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>21.29</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>4,100</u>	Gallons	Estimated Supply:	<u>66.4</u>	days
Caustic Soda on hand:	<u>3,300</u>	Gallons	Estimated Supply:	<u>226.0</u>	days
Corrosion Inhibitor on hand:	<u>1,155</u>	Gallons	Estimated Supply:	<u>53.5</u>	days
Hydrofluosilicic Acid on hand:	<u>1,676</u>	Gallons	Estimated Supply:	<u>92.1</u>	days
Aluminum Chlorohydrate on hand:	<u>582</u>	Gallons	Estimated Supply:	<u>94.6</u>	days
Sulfuric Acid on hand:	<u>605</u>	Gallons	Estimated Supply:	<u>302.3</u>	days
Sodium Bisulfite on hand:	<u>366</u>	Gallons	Estimated Supply:	<u>126.2</u>	days
Citric Acid on hand:	<u>776</u>	Gallons	Estimated Supply:	<u>62.1</u>	days
Cost of All Chemicals per Million Gallons:	<u>102.46</u>	Dollars			
Estimated Electrical Cost per Million Gallons:	<u>117.03</u>	Dollars			
Estimated Natural Gas Cost per Million Gallons:	<u>19.8</u>	Dollars			

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

Bay Area WTP Monthly Operating Report

Date	Flows								
	Raw Water (MG)			Clarified (MG)	Sludge (MG)	Treated (MG)	Finished Water Pumped (MG)		
	North	South	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	
12/1/2022	0.00	6.51	6.51	0.34	0.08	6.53	3.20	3.03	6.22
12/2/2022	0.00	6.58	6.58	0.31	0.08	6.60	3.21	3.04	6.26
12/3/2022	0.00	6.62	6.62	0.33	0.08	6.36	3.17	3.00	6.16
12/4/2022	0.00	6.48	6.48	0.34	0.08	6.76	3.29	3.12	6.40
12/5/2022	0.00	6.64	6.64	0.37	0.08	7.12	3.49	3.32	6.81
12/6/2022	0.00	7.54	7.54	0.33	0.08	7.05	3.43	3.26	6.68
12/7/2022	0.00	8.24	8.24	0.32	0.08	6.77	3.36	3.19	6.55
12/8/2022	0.00	6.62	6.62	0.32	0.08	6.77	3.31	3.14	6.45
12/9/2022	0.00	6.15	6.15	0.32	0.08	6.37	3.18	3.01	6.19
12/10/2022	0.00	6.10	6.10	0.32	0.08	6.46	3.14	2.97	6.11
12/11/2022	0.00	6.33	6.33	0.32	0.08	6.52	3.27	3.10	6.36
12/12/2022	0.00	6.42	6.42	0.32	0.08	6.68	3.33	3.16	6.50
12/13/2022	0.00	6.72	6.72	0.33	0.08	6.84	3.33	3.16	6.49
12/14/2022	0.00	6.89	6.89	0.34	0.08	6.74	3.35	3.18	6.52
12/15/2022	0.00	6.89	6.89	0.33	0.08	6.63	3.25	3.08	6.32
12/16/2022	0.00	6.81	6.81	0.31	0.08	6.82	3.40	3.23	6.64
12/17/2022	0.00	7.09	7.09	0.33	0.10	7.23	3.54	3.37	6.92
12/18/2022	0.00	7.23	7.23	0.34	0.08	7.06	3.48	3.31	6.80
12/19/2022	0.00	6.92	6.92	0.37	0.08	6.97	3.40	3.23	6.64
12/20/2022	0.00	7.12	7.12	0.38	0.08	6.60	3.27	3.10	6.38
12/21/2022	0.00	6.67	6.67	0.34	0.08	6.89	3.43	3.26	6.69
12/22/2022	0.00	6.52	6.52	0.34	0.08	6.91	3.35	3.18	6.53
12/23/2022	0.00	6.51	6.51	0.34	0.08	6.65	3.34	3.17	6.51
12/24/2022	0.00	7.34	7.34	0.35	0.08	7.30	3.56	3.39	6.95
12/25/2022	0.00	7.64	7.64	0.34	0.08	6.37	3.20	3.03	6.22
12/26/2022	0.00	6.38	6.38	0.32	0.10	7.12	3.52	3.35	6.86
12/27/2022	0.00	6.87	6.87	0.34	0.08	6.99	3.46	3.29	6.75
12/28/2022	0.00	6.88	6.88	0.35	0.08	6.98	3.41	3.24	6.65
12/29/2022	0.00	7.47	7.47	0.40	0.08	7.61	3.75	3.58	7.33
12/30/2022	0.00	7.37	7.37	0.37	0.08	6.87	3.37	3.20	6.58
12/31/2022	0.00	7.03	7.03	0.35	0.08	6.90	3.42	3.25	6.67
Total	0.00	212.58	212.58	10.51	2.47	211.50	104.21	98.94	203.15
Avg	0.00	6.86	6.86	0.34	0.08	6.82	3.36	3.19	6.55
Min	0.00	6.10	6.10	0.31	0.08	6.36	3.14	2.97	6.11
Max	0.00	8.24	8.24	0.40	0.10	7.61	3.75	3.58	7.33



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	
12/1/2022	7.8	8.14	0.48	0.66	0.08	0.38	Negative	Negative
12/2/2022	7.7	8.11	0.45	0.59	0.07	0.48	Negative	Negative
12/3/2022	7.6	8.08	0.65	0.85	0.07	0.56	Negative	Negative
12/4/2022	7.5	8.10	0.57	1.02	0.07	0.47	Negative	Negative
12/5/2022	7.4	8.12	0.41	0.50	0.07	0.46	Negative	Negative
12/6/2022	7.5	8.11	0.58	1.62	0.08	0.43	Negative	Negative
12/7/2022	7.6	8.11	0.48	0.80	0.08	0.37	Negative	Negative
12/8/2022	7.3	8.14	0.43	0.65	0.08	0.34	Negative	Negative
12/9/2022	7.2	8.14	0.44	0.56	0.08	0.32	Negative	Negative
12/10/2022	7.1	8.13	0.43	0.60	0.08	0.41	Negative	Negative
12/11/2022	6.9	8.12	1.73	66.87	0.08	0.42	Negative	Negative
12/12/2022	6.5	8.12	1.55	3.25	0.08	0.43	Negative	Negative
12/13/2022	6.4	8.13	0.70	1.46	0.09	0.42	Negative	Negative
12/14/2022	6.2	8.14	0.55	0.93	0.09	0.42	Negative	Negative
12/15/2022	6.2	8.14	0.54	1.68	0.08	0.42	Negative	Negative
12/16/2022	6.2	8.12	3.97	13.78	0.08	0.34	Negative	Negative
12/17/2022	5.9	8.11	6.13	17.09	0.08	0.35	Negative	Negative
12/18/2022	5.7	8.16	9.06	11.79	0.09	0.50	Negative	Negative
12/19/2022	5.5	8.12	3.51	9.52	0.09	0.48	Negative	Negative
12/20/2022	5.6	8.12	0.81	2.06	0.08	0.49	Negative	Negative
12/21/2022	5.7	8.12	0.57	0.81	0.09	0.48	Negative	Negative
12/22/2022	5.7	8.12	0.55	1.24	0.08	0.47	Negative	Negative
12/23/2022	5.7	8.12	0.45	1.46	0.08	0.47	Negative	Negative
12/24/2022	5.6	8.13	0.57	1.20	0.08	0.45	Negative	Negative
12/25/2022	5.8	8.12	3.47	8.00	0.08	0.37	Negative	Negative
12/26/2022	6.0	8.10	2.93	14.08	0.08	0.39	Negative	Negative
12/27/2022	6.7	8.11	1.29	38.51	0.08	0.47	Negative	Negative
12/28/2022	7.7	8.12	0.52	0.89	0.08	0.46	Negative	Negative
12/29/2022	7.9	8.11	0.48	4.52	0.08	0.48	Negative	Negative
12/30/2022	7.6	8.10	0.47	0.71	0.07	0.55	Negative	Negative
12/31/2022	7.5	8.09	0.56	0.73	0.10	0.56	Negative	Negative
Avg	6.7	8.12	1.46	6.72	0.08	0.44	NA	NA
Min	5.5	8.08	0.41	0.50	0.07	0.32	NA	NA
Max	7.9	8.16	9.06	66.87	0.10	0.56	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	Total Coliform	E. coli
	°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						
12/1/2022	7.6	7.72	3.36	0.71		1.14	0	72	10	11	76	11.0	213	-0.80	0.91	0.44	Negative	Negative	
12/2/2022	7.6	7.70	3.36	0.69		1.02	0	73	11	12	78	11.4	211	-0.79	0.92	0.47	Negative	Negative	
12/3/2022	7.5	7.70	3.36	0.71		1.04	0	72	10	12	70	11.6	212	-0.85	0.83	0.45	Negative	Negative	
12/4/2022	7.3	7.71	3.36	0.70		1.04	0	73	10	13	70	11.4	212	-0.85	0.77	0.47	Negative	Negative	
12/5/2022	7.2	7.70	3.37	0.70	0.71	1.03	0	73	11	10	78	11.0	223	-0.81	1.10	0.44	Negative	Negative	
12/6/2022	7.1	7.68	3.40	0.70		1.03	0	72	11	11	71	11.7	221	-0.88	1.00	0.46	Negative	Negative	
12/7/2022	7.0	7.68	3.40	0.73		1.03	0	75	10	10	72	11.8	218	-0.86	1.00	0.40	Negative	Negative	
12/8/2022	6.8	7.68	3.41	0.79		1.01	0	75	9	9	74	12.6	220	-0.85	1.00	0.36	Negative	Negative	
12/9/2022	6.7	7.69	3.40	0.78		1.00	0	75	10	8	74	12.6	220	-0.84	1.25	0.37	Negative	Negative	
12/10/2022	6.7	7.70	3.40	0.80		1.01	0	75	10	8	74	12.0	221	-0.83	1.25	0.37	Negative	Negative	
12/11/2022	6.6	7.69	3.39	0.79		1.03	0	74	9	8	74	12.6	220	-0.85	1.13	0.35	Negative	Negative	
12/12/2022	6.5	7.69	3.38	0.79	0.77	1.03	0	75	10	8	76	12.9	218	-0.83	1.25	0.37	Negative	Negative	
12/13/2022	6.3	7.70	3.39	0.80		1.03	0	75	10	8	76	12.3	217	-0.83	1.25	0.37	Negative	Negative	
12/14/2022	6.1	7.71	3.39	0.80		1.03	0	76	11	10	72	12.9	219	-0.85	1.08	0.41	Negative	Negative	
12/15/2022	6.0	7.71	3.38	0.79		1.03	0	74	10	8	76	12.6	214	-0.83	1.28	0.38	Negative	Negative	
12/16/2022	5.9	7.71	3.38	0.80		1.03	0	72	10	12	74	11.4	211	-0.86	0.85	0.46	Negative	Negative	
12/17/2022	5.7	7.72	3.38	0.79		1.03	0	71	11	10	72	12.3	215	-0.88	1.08	0.44	Negative	Negative	
12/18/2022	5.3	7.74	3.38	0.81		1.04	0	73	11	10	76	12.5	219	-0.83	1.07	0.43	Negative	Negative	
12/19/2022	4.9	7.75	3.37	0.80	0.80	1.03	0	73	11	11	74	12.6	224	-0.85	0.96	0.44	Negative	Negative	
12/20/2022	4.7	7.74	3.37	0.75		1.04	0	74	11	10	76	12.7	223	-0.84	1.09	0.43	Negative	Negative	
12/21/2022	4.8	7.73	3.37	0.75		1.03	0	73	10	9	76	11.1	214	-0.85	1.11	0.40	Negative	Negative	
12/22/2022	5.1	7.72	3.37	0.76		1.02	0	76	10	8	76	13.1	217	-0.84	1.24	0.36	Negative	Negative	
12/23/2022	5.2	7.72	3.37	0.77		1.01	0	74	10	8	74	12.2	216	-0.86	1.26	0.38	Negative	Negative	
12/24/2022	5.2	7.72	3.36	0.76		1.01	0	75	10	7	76	12.4	216	-0.84	1.41	0.35	Negative	Negative	
12/25/2022	5.2	7.72	3.36	0.76		1.00	0	75	10	9	76	12.1	217	-0.84	1.11	0.38	Negative	Negative	
12/26/2022	5.0	7.72	3.36	0.76		1.01	0	73	10	8	74	12.1	217	-0.87	1.21	0.37	Negative	Negative	
12/27/2022	4.9	7.72	3.36	0.76	0.74	1.02	0	75	10	8	74	12.7	216	-0.86	1.20	0.36	Negative	Negative	
12/28/2022	4.9	7.72	3.36	0.75		1.03	0	78	10	10	72	13.0	215	-0.85	1.01	0.39	Negative	Negative	
12/29/2022	4.9	7.71	3.36	0.76		1.02	0	72	10	11	72	12.5	211	-0.90	0.95	0.45	Negative	Negative	
12/30/2022	4.9	7.70	3.35	0.74		1.04	0	70	11	10	74	11.5	213	-0.90	1.08	0.45	Negative	Negative	
12/31/2022	4.9	7.70	3.35	0.79		1.03	0	74	10	11	74	12.2	215	-0.88	0.90	0.42	Negative	Negative	
Avg	6.0	7.71	3.37	0.76	0.75	1.03	0	74	10	10	74	12.2	217	-0.85	1.08	0.41	NA	NA	
Min	4.7	7.68	3.35	0.69	0.71	1.00	0	70	9	7	70	11.0	211	-0.90	0.77	0.35	NA	NA	
Max	7.6	7.75	3.41	0.81	0.80	1.14	0	78	11	13	78	13.1	224	-0.79	1.41	0.47	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
12/1/2022	0.48	0.66	3.14	0.46	0.024	0.024	96	0	0.0	0.017
12/2/2022	0.45	0.59	2.61	0.46	0.024	0.024	96	0	0.0	0.017
12/3/2022	0.65	0.85	2.02	0.53	0.024	0.024	96	0	0.0	0.017
12/4/2022	0.57	1.02	2.38	0.59	0.024	0.024	96	0	0.0	0.017
12/5/2022	0.41	0.50	2.19	0.52	0.024	0.024	96	0	0.0	0.017
12/6/2022	0.58	1.62	2.54	0.45	0.024	0.024	96	0	0.0	0.017
12/7/2022	0.48	0.80	3.21	0.59	0.024	0.024	96	0	0.0	0.017
12/8/2022	0.43	0.65	2.81	0.49	0.024	0.024	96	0	0.0	0.017
12/9/2022	0.44	0.56	2.59	0.46	0.024	0.024	96	0	0.0	0.017
12/10/2022	0.43	0.60	2.92	0.47	0.024	0.024	96	0	0.0	0.017
12/11/2022	1.73	66.87	2.77	0.67	0.024	0.024	96	0	0.0	0.017
12/12/2022	1.55	3.25	4.16	0.92	0.023	0.024	96	0	0.0	0.017
12/13/2022	0.70	1.46	3.54	0.77	0.021	0.021	96	0	0.0	0.016
12/14/2022	0.55	0.93	3.05	0.62	0.021	0.021	96	0	0.0	0.018
12/15/2022	0.54	1.68	2.83	0.55	0.021	0.021	96	0	0.0	0.017
12/16/2022	3.97	13.78	2.86	0.84	0.021	0.021	96	0	0.0	0.017
12/17/2022	6.13	17.09	1.91	1.74	0.021	0.021	96	0	0.0	0.019
12/18/2022	9.06	11.79	1.24	4.25	0.022	0.023	96	0	0.0	0.016
12/19/2022	3.51	9.52	1.80	5.21	0.022	0.022	96	0	0.0	0.016
12/20/2022	0.81	2.06	1.89	3.48	0.022	0.022	96	0	0.0	0.016
12/21/2022	0.57	0.81	2.12	1.82	0.021	0.022	96	0	0.0	0.016
12/22/2022	0.55	1.24	2.89	1.32	0.021	0.022	96	0	0.0	0.016
12/23/2022	0.45	1.46	2.65	0.71	0.021	0.022	96	0	0.0	0.016
12/24/2022	0.57	1.20	2.61	0.55	0.021	0.022	96	0	0.0	0.016
12/25/2022	3.47	8.00	2.61	1.27	0.021	0.022	96	0	0.0	0.016
12/26/2022	2.93	14.08	2.81	2.22	0.021	0.022	96	0	0.0	0.017
12/27/2022	1.29	38.51	2.20	1.88	0.021	0.022	96	0	0.0	0.016
12/28/2022	0.52	0.89	2.50	0.92	0.021	0.022	96	0	0.0	0.016
12/29/2022	0.48	4.52	2.07	0.70	0.021	0.022	96	0	0.0	0.016
12/30/2022	0.47	0.71	1.53	0.52	0.021	0.022	96	0	0.0	0.016
12/31/2022	0.56	0.73	1.50	0.48	0.021	0.021	96	0	0.0	0.016
Avg	1.46	6.72	2.51	1.18	0.022	0.022	96	0	0.0	0.017
Min	0.41	0.50	1.24	0.45	0.021	0.021	96	0	0.0	0.016
Max	9.06	66.87	4.16	5.21	0.024	0.024	96	0	0.0	0.019

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



Membrane LRV/Integrity/Max Turbidity																										
Date	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		
	Average	Max		Average	Max		Average	Max		Average	Max		Average	Max		Average	Max		Average	Max		Average	Max			
	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail
12/1/2022	4.32	PASS	0.014	4.13	PASS	0.024	4.23	PASS	0.018	4.39	PASS	0.015	4.30	PASS	0.017	4.38	PASS	0.021	4.38	PASS	0.026	4.21	PASS	0.029		
12/2/2022	4.34	PASS	0.016	4.10	PASS	0.024	4.21	PASS	0.018	4.39	PASS	0.015	4.30	PASS	0.017	4.37	PASS	0.022	4.38	PASS	0.027	4.19	PASS	0.023		
12/3/2022	4.30	PASS	0.016	4.08	PASS	0.023	4.20	PASS	0.018	4.32	PASS	0.015	4.30	PASS	0.017	4.34	PASS	0.021	4.43	PASS	0.026	4.21	PASS	0.021		
12/4/2022	4.29	PASS	0.014	4.08	PASS	0.023	4.20	PASS	0.018	4.56	PASS	0.015	4.30	PASS	0.017	4.36	PASS	0.021	4.47	PASS	0.027	4.21	PASS	0.020		
12/5/2022	4.28	PASS	0.016	4.07	PASS	0.022	4.26	PASS	0.018	4.51	PASS	0.015	4.35	PASS	0.017	4.37	PASS	0.021	4.42	PASS	0.027	4.20	PASS	0.019		
12/6/2022	4.27	PASS	0.014	4.05	PASS	0.021	4.25	PASS	0.018	4.47	PASS	0.015	4.30	PASS	0.017	4.33	PASS	0.021	4.43	PASS	0.027	4.18	PASS	0.019		
12/7/2022	4.25	PASS	0.015	4.05	PASS	0.024	4.24	PASS	0.019	4.43	PASS	0.015	4.28	PASS	0.017	4.52	PASS	0.022	4.38	PASS	0.027	4.14	PASS	0.020		
12/8/2022	4.24	PASS	0.014	4.04	PASS	0.023	4.18	PASS	0.018	4.44	PASS	0.015	4.32	PASS	0.017	4.48	PASS	0.022	4.37	PASS	0.027	4.15	PASS	0.019		
12/9/2022	4.28	PASS	0.016	4.25	PASS	0.022	4.18	PASS	0.018	4.45	PASS	0.015	4.28	PASS	0.017	4.48	PASS	0.022	4.36	PASS	0.027	4.18	PASS	0.018		
12/10/2022	4.26	PASS	0.017	4.20	PASS	0.021	4.48	PASS	0.018	4.43	PASS	0.015	4.29	PASS	0.018	4.45	PASS	0.022	4.35	PASS	0.027	4.20	PASS	0.018		
12/11/2022	4.26	PASS	0.016	4.16	PASS	0.022	4.37	PASS	0.018	4.42	PASS	0.015	4.29	PASS	0.017	4.47	PASS	0.022	4.38	PASS	0.027	4.16	PASS	0.018		
12/12/2022	4.22	PASS	0.018	4.15	PASS	0.023	4.29	PASS	0.018	4.44	PASS	0.015	4.28	PASS	0.017	4.49	PASS	0.022	4.40	PASS	0.027	4.19	PASS	0.019		
12/13/2022	4.27	PASS	0.021	4.15	PASS	0.024	4.27	PASS	0.023	4.44	PASS	0.016	4.28	PASS	0.022	4.47	PASS	0.023	4.32	PASS	0.030	4.19	PASS	0.021		
12/14/2022	4.26	PASS	0.021	4.16	PASS	0.026	4.27	PASS	0.020	4.43	PASS	0.017	4.28	PASS	0.022	4.44	PASS	0.022	4.35	PASS	0.029	4.17	PASS	0.021		
12/15/2022	4.25	PASS	0.020	4.13	PASS	0.024	4.34	PASS	0.020	4.43	PASS	0.017	4.27	PASS	0.021	4.45	PASS	0.022	4.36	PASS	0.027	4.18	PASS	0.020		
12/16/2022	4.21	PASS	0.020	4.14	PASS	0.025	4.26	PASS	0.019	4.43	PASS	0.017	4.24	PASS	0.021	4.44	PASS	0.022	4.30	PASS	0.029	4.22	PASS	0.021		
12/17/2022	4.22	PASS	0.020	4.16	PASS	0.025	4.25	PASS	0.020	4.41	PASS	0.017	4.24	PASS	0.021	4.41	PASS	0.022	4.31	PASS	0.028	4.22	PASS	0.021		
12/18/2022	4.20	PASS	0.021	4.14	PASS	0.025	4.22	PASS	0.020	4.38	PASS	0.017	4.27	PASS	0.021	4.37	PASS	0.024	4.37	PASS	0.030	4.16	PASS	0.021		
12/19/2022	4.19	PASS	0.021	4.08	PASS	0.026	4.17	PASS	0.020	4.33	PASS	0.017	4.20	PASS	0.021	4.39	PASS	0.024	4.29	PASS	0.029	4.14	PASS	0.022		
12/20/2022	4.19	PASS	0.021	4.10	PASS	0.025	4.18	PASS	0.020	4.36	PASS	0.017	4.20	PASS	0.021	4.41	PASS	0.026	4.31	PASS	0.030	4.20	PASS	0.021		
12/21/2022	4.19	PASS	0.020	4.13	PASS	0.028	4.16	PASS	0.020	4.39	PASS	0.016	4.19	PASS	0.020	4.37	PASS	0.025	4.30	PASS	0.030	4.17	PASS	0.021		
12/22/2022	4.18	PASS	0.020	4.10	PASS	0.025	4.20	PASS	0.020	4.38	PASS	0.016	4.23	PASS	0.022	4.39	PASS	0.027	4.41	PASS	0.028	4.16	PASS	0.021		
12/23/2022	4.22	PASS	0.019	4.11	PASS	0.024	4.22	PASS	0.019	4.43	PASS	0.015	4.30	PASS	0.021	4.41	PASS	0.022	4.36	PASS	0.029	4.18	PASS	0.020		
12/24/2022	4.22	PASS	0.019	4.12	PASS	0.024	4.20	PASS	0.019	4.43	PASS	0.015	4.25	PASS	0.021	4.41	PASS	0.024	4.30	PASS	0.029	4.23	PASS	0.021		
12/25/2022	4.23	PASS	0.020	4.12	PASS	0.025	4.21	PASS	0.020	4.38	PASS	0.015	4.26	PASS	0.021	4.44	PASS	0.022	4.30	PASS	0.029	4.23	PASS	0.021		
12/26/2022	4.23	PASS	0.019	4.10	PASS	0.023	4.22	PASS	0.019	4.33	PASS	0.016	4.29	PASS	0.021	4.44	PASS	0.025	4.32	PASS	0.027	4.17	PASS	0.021		
12/27/2022	4.22	PASS	0.019	4.07	PASS	0.024	4.20	PASS	0.019	4.34	PASS	0.016	4.31	PASS	0.021	4.43	PASS	0.023	4.30	PASS	0.029	4.17	PASS	0.021		
12/28/2022	4.22	PASS	0.019	4.06	PASS	0.024	4.23	PASS	0.019	4.37	PASS	0.016	4.23	PASS	0.021	4.38	PASS	0.025	4.32	PASS	0.028	4.41	PASS	0.020		
12/29/2022	4.22	PASS	0.019	4.12	PASS	0.025	4.23	PASS	0.019	4.43	PASS	0.015	4.23	PASS	0.021	4.39	PASS	0.025	4.30	PASS	0.028	4.39	PASS	0.020		
12/30/2022	4.22	PASS	0.019	4.11	PASS	0.024	4.25	PASS	0.019	4.43	PASS	0.015	4.29	PASS	0.021	4.43	PASS	0.024	4.34	PASS	0.027	4.30	PASS	0.020		
12/31/2022	4.23	PASS	0.019	4.09	PASS	0.024	4.23	PASS	0.019	4.41	PASS	0.015	4.27	PASS	0.021	4.43	PASS	0.022	4.35	PASS	0.029	4.27	PASS	0.020		
Avg	4.24		0.018	4.12		0.024	4.24		0.019	4.41		0.015	4.27		0.020	4.42		0.023	4.35		0.028	4.21		0.020		
Min	4.18		0.014	4.04		0.021	4.16		0.018	4.32		0.015	4.19		0.017	4.33		0.021	4.29		0.026	4.14		0.018		
Max	4.34		0.021	4.25		0.028	4.48		0.023	4.56		0.017	4.35		0.022	4.52		0.027	4.47		0.030	4.41		0.029		



*LRV must remain above Upper Control Limit of 3.32 psi/min

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
12/1/2022	6.5	0.38	0.31	0.70	1.15	1.14	3.18	3.36	0.08	0.60	0.71
12/2/2022	6.6	0.48	0.34	0.70	1.10	1.02	3.18	3.36	0.07	0.60	0.69
12/3/2022	6.4	0.56	0.39	0.64	1.12	1.04	3.18	3.36	0.07	0.60	0.71
12/4/2022	6.8	0.47	0.41	0.62	1.11	1.04	3.18	3.36	0.07	0.60	0.70
12/5/2022	7.1	0.46	0.39	0.62	1.09	1.03	3.18	3.37	0.07	0.60	0.70
12/6/2022	7.1	0.43	0.38	0.64	1.10	1.03	3.18	3.40	0.08	0.60	0.70
12/7/2022	6.8	0.37	0.35	0.66	1.09	1.03	3.18	3.40	0.08	0.62	0.73
12/8/2022	6.8	0.34	0.30	0.70	1.08	1.01	3.18	3.41	0.08	0.64	0.79
12/9/2022	6.4	0.32	0.28	0.70	1.07	1.00	3.18	3.40	0.08	0.64	0.78
12/10/2022	6.5	0.41	0.29	0.70	1.10	1.01	3.18	3.40	0.08	0.64	0.80
12/11/2022	6.5	0.42	0.32	0.70	1.10	1.03	3.18	3.39	0.08	0.64	0.79
12/12/2022	6.7	0.43	0.33	0.68	1.09	1.03	3.18	3.38	0.08	0.64	0.79
12/13/2022	6.8	0.42	0.34	0.68	1.10	1.03	3.18	3.39	0.09	0.64	0.80
12/14/2022	6.7	0.42	0.34	0.68	1.10	1.03	3.18	3.39	0.09	0.64	0.80
12/15/2022	6.6	0.42	0.35	0.66	1.09	1.03	3.18	3.38	0.08	0.64	0.79
12/16/2022	6.8	0.34	0.34	0.66	1.08	1.03	3.18	3.38	0.08	0.64	0.80
12/17/2022	7.2	0.35	0.27	0.67	1.09	1.03	3.18	3.38	0.08	0.64	0.79
12/18/2022	7.1	0.50	0.34	0.63	1.10	1.04	3.18	3.38	0.09	0.64	0.81
12/19/2022	7.0	0.48	0.36	0.61	1.09	1.03	3.18	3.37	0.09	0.62	0.80
12/20/2022	6.6	0.49	0.39	0.58	1.09	1.04	3.18	3.37	0.08	0.60	0.75
12/21/2022	6.9	0.48	0.40	0.56	1.09	1.03	3.18	3.37	0.09	0.60	0.75
12/22/2022	6.9	0.47	0.41	0.56	1.07	1.02	3.18	3.37	0.08	0.60	0.76
12/23/2022	6.7	0.47	0.41	0.56	1.07	1.01	3.18	3.37	0.08	0.60	0.77
12/24/2022	7.3	0.45	0.40	0.56	1.06	1.01	3.18	3.36	0.08	0.60	0.76
12/25/2022	6.4	0.37	0.37	0.63	1.06	1.00	3.18	3.36	0.08	0.60	0.76
12/26/2022	7.1	0.39	0.32	0.64	1.07	1.01	3.18	3.36	0.08	0.60	0.76
12/27/2022	7.0	0.47	0.35	0.62	1.09	1.02	3.18	3.36	0.08	0.60	0.76
12/28/2022	7.0	0.46	0.38	0.59	1.08	1.03	3.18	3.36	0.08	0.61	0.75
12/29/2022	7.6	0.48	0.39	0.58	1.08	1.02	3.18	3.36	0.08	0.62	0.76
12/30/2022	6.9	0.55	0.44	0.54	1.10	1.04	3.18	3.35	0.07	0.62	0.74
12/31/2022	6.9	0.56	0.46	0.52	1.09	1.03	3.18	3.35	0.10	0.62	0.79
Avg	6.8	0.44	0.36	0.63	1.09	1.03	3.18	3.37	0.08	0.62	0.76
Min	6.4	0.32	0.27	0.52	1.06	1.00	3.18	3.35	0.07	0.60	0.69
Max	7.6	0.56	0.46	0.70	1.15	1.14	3.18	3.41	0.10	0.64	0.81



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
12/1/2022	37.5	3,333	0.38	1273	28.7	24.7	6.2	588	1.04	612	1884	7.8	8.00	Y
12/2/2022	41.9	2,986	0.48	1426	28.7	25.1	6.3	589	1.00	588	2014	7.7	8.00	Y
12/3/2022	55.1	2,271	0.56	1262	28.6	24.8	6.2	594	0.98	585	1847	7.6	8.00	Y
12/4/2022	50.1	2,496	0.47	1185	28.7	23.8	6.4	561	1.01	564	1749	7.5	8.00	Y
12/5/2022	42.8	2,924	0.46	1348	28.7	24.7	6.8	537	1.00	536	1885	7.4	8.00	Y
12/6/2022	41.9	2,984	0.43	1280	28.7	24.8	6.7	549	1.01	556	1836	7.5	8.00	Y
12/7/2022	41.0	3,054	0.37	1129	28.7	25.1	6.6	563	1.01	566	1695	7.6	8.00	Y
12/8/2022	37.8	3,305	0.34	1118	28.7	25.2	6.5	572	0.98	560	1678	7.3	8.00	Y
12/9/2022	41.6	3,007	0.32	973	28.7	25.5	6.2	600	0.99	595	1568	7.2	8.00	Y
12/10/2022	42.4	2,953	0.41	1202	28.7	25.0	6.1	602	0.98	593	1795	7.1	8.00	Y
12/11/2022	50.1	2,496	0.42	1037	28.6	24.3	6.4	570	0.99	565	1602	6.9	8.00	Y
12/12/2022	49.0	2,553	0.43	1089	28.7	24.7	6.5	563	0.96	543	1632	6.5	8.00	Y
12/13/2022	43.7	2,861	0.42	1193	28.8	24.6	6.5	564	0.98	555	1748	6.4	8.00	Y
12/14/2022	40.7	3,071	0.42	1275	28.7	25.7	6.5	571	1.01	574	1849	6.2	8.00	Y
12/15/2022	41.2	3,038	0.42	1275	28.7	25.9	6.3	591	0.97	574	1849	6.2	8.00	Y
12/16/2022	44.5	2,814	0.34	944	28.7	24.7	6.6	552	1.01	559	1503	6.2	8.00	Y
12/17/2022	54.6	2,292	0.35	791	28.7	24.9	6.9	531	1.01	534	1325	5.9	8.00	Y
12/18/2022	53.2	2,352	0.50	1177	28.6	25.0	6.8	541	1.01	548	1725	5.7	8.00	Y
12/19/2022	44.3	2,823	0.48	1352	28.7	24.2	6.6	546	1.01	549	1901	5.5	8.00	Y
12/20/2022	42.1	2,968	0.49	1450	28.7	25.6	6.4	583	1.02	594	2044	5.6	8.00	Y
12/21/2022	42.8	2,920	0.48	1407	28.7	24.9	6.7	549	1.01	552	1959	5.7	8.00	Y
12/22/2022	39.9	3,138	0.47	1472	28.7	25.6	6.5	570	1.00	569	2042	5.7	8.00	Y
12/23/2022	41.6	3,007	0.47	1419	28.7	25.3	6.5	568	0.98	559	1978	5.7	8.00	Y
12/24/2022	53.1	2,356	0.45	1049	28.7	24.9	7.0	529	0.99	525	1574	5.6	8.00	Y
12/25/2022	53.9	2,320	0.37	847	28.7	26.1	6.2	603	0.97	586	1433	5.8	8.00	Y
12/26/2022	44.8	2,793	0.39	1082	28.7	25.0	6.9	536	0.98	528	1610	6.0	8.00	Y
12/27/2022	39.0	3,207	0.47	1513	28.7	24.1	6.8	536	0.99	532	2045	6.7	8.00	Y
12/28/2022	40.1	3,120	0.46	1450	28.7	24.1	6.7	544	1.01	547	1997	7.7	8.00	Y
12/29/2022	44.1	2,835	0.48	1368	28.7	24.9	7.3	501	1.00	500	1868	7.9	8.00	Y
12/30/2022	45.8	2,729	0.55	1501	28.7	25.8	6.6	567	1.02	578	2079	7.6	8.00	Y
12/31/2022	54.7	2,287	0.56	1291	28.7	25.5	6.7	557	1.00	556	1847	7.5	8.00	Y
Avg	45.0	2,816	0.44	1232	28.7	25.0	6.6	562	1.00	561	1792	6.7	8.00	NA
Min	37.5	2,271	0.32	791	28.6	23.8	6.1	501	0.96	500	1325	5.5	8.00	NA
Max	55.1	3,333	0.56	1513	28.8	26.1	7.3	603	1.04	612	2079	7.9	8.00	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 Cl ₂)																									
WSSN:	0072 Akron	0390 Bangor Twp.				0400 Bangor Monitor Dist.			0470 Bay City							0485 Bay County					0517 Beaver Rd	0518 Beaver Twp		2180 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	
12/1/2022		0.33	0.57			0.91	1.10		0.75	0.55	0.71	0.71	0.42	1.12	0.69										
12/2/2022																									
12/3/2022																									
12/4/2022																									
12/5/2022																									
12/6/2022	0.20							0.93																	0.99
12/7/2022									0.71	0.63	0.62	0.62	0.43	1.00	0.74	0.73	0.69	0.65	0.70	0.47					
12/8/2022		0.65	0.34	0.45	0.94											0.97	0.76	0.79	0.75	0.59		0.33			
12/9/2022																									
12/10/2022																									
12/11/2022																									
12/12/2022																									
12/13/2022									0.84	0.53	0.58	0.81	0.41	0.99	0.63						0.83				0.93
12/14/2022																									
12/15/2022		0.54	0.35	0.43	0.82				0.76	0.53	0.61	0.86	0.33	0.85	0.58										0.42
12/16/2022																									
12/17/2022																									
12/18/2022																									
12/19/2022																									
12/20/2022																									
12/21/2022									0.82	0.33	0.53	0.83	0.40	0.75	0.69										0.94
12/22/2022																									
12/23/2022																									
12/24/2022																									
12/25/2022																									
12/26/2022																									
12/27/2022									0.81	0.51	0.61	0.77	0.43	0.94											
12/28/2022																									0.97
12/29/2022									0.34	0.69	0.68	0.78	0.44	0.71											
12/30/2022																									
12/31/2022																									
Average	0.20		0.54				0.98					0.66					0.71				0.83		0.38		0.96
Min	0.20		0.33				0.91					0.33					0.47				0.83		0.33		0.93
Max	0.20		0.94				1.10					1.12					0.97				0.83		0.42		0.99



MONITORING STATION ADDRESSES

- | | | |
|--|---|---|
| 1. Sample station at corner of 5758 M-25 & F | 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. Skizak's Sport Shop, 807 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. B's Boutique, 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		4280		4440			5330		5335		5540	7125			7134
Date	Fraser Twp.		Hampton Twp.			Kawkawlin Twp.			Kawkawlin Met.		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
	34	35	37	38	39	40	41	42	43	45	46	48	49	52	55	58	59	61	63	65	68	69	70	72
12/1/2022			0.51	0.65	0.46								1.07	0.82	0.76									
12/2/2022																								
12/3/2022																								
12/4/2022																								
12/5/2022																								
12/6/2022			0.51	0.46	0.54						0.47		0.90	0.78	0.67				0.57					0.47
12/7/2022																								
12/8/2022											0.49										0.58	0.63	0.62	
12/9/2022																								
12/10/2022																								
12/11/2022																								
12/12/2022			0.42	0.67	0.50																			
12/13/2022								0.84	0.73							0.52								
12/14/2022																								
12/15/2022																					0.63	0.61	0.58	
12/16/2022																								
12/17/2022																								
12/18/2022																								
12/19/2022																								
12/20/2022	0.64		0.48			0.95	0.76		0.77							0.48		0.73		0.57				
12/21/2022																								
12/22/2022																								
12/23/2022																								
12/24/2022																								
12/25/2022																								
12/26/2022																								
12/27/2022		0.67																	0.50					
12/28/2022																								
12/29/2022																								
12/30/2022																								
12/31/2022																								
Average	0.66		0.52			0.85			0.75		0.48		0.83			0.50		0.62		0.57				0.47
Min	0.64		0.42			0.76			0.73		0.47		0.67			0.48		0.50		0.57				0.47
Max	0.67		0.67			0.95			0.77		0.49		1.07			0.52		0.73		0.57				0.47



MONITORING STATION ADDRESSES

- | | | |
|---|--|---|
| 34. Fraser Elevated Tank, 2949 1/2 N. Huron Rd | 43. Kawkawlin Party Store, 105 Grove St | 59. Marathon Gas Station, 511 S Mabel St |
| 35. Lloyd's Cabinet, 1947 N Huron Rd | 45. Kawkawlin Restaurant, 103 S Huron Rd | 61. Pinconning Meter Pit, 3005 N Huron Rd |
| 37. Hampton DPW, 950 Wagner Rd. | 46. John's Bar, 1476 S Tuscola Rd | 63. Master Meter Pit, 2865 Pinconning Rd |
| 38. Bay County Golf Course, 584 W Hampton Rd. | 48. Tool Shed Bar, 12 W Munger Rd | 65. Ike's Welding, 50 N Finn Rd |
| 39. Sewer Lift Station, 902 Nebobish Rd. | 49. Wilder Rd Party Store, 2951 E Wilder Rd | 68. Williams Township Hall, 1080 W Midland Rd |
| 40. Bay Co. Road Commisison, 2600 E Beaver Rd | 52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd | 69. Pump Station, 490 W. Salzburg & 9 Mile Rd |
| 41. Parish Rd. Elevated Tank, 1770 E. Parish Rd | 55. Auburn Fertilizer, 4640 S 7 Mile Rd | 70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd |
| 42. Linwood Tile, 205 S Huron Rd | 58. Pinconning City Hall, 208 S Manitou St | 72. Lindy's Sales, 9051 M-25 |

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			
				December, 2022			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.20	1	1	0	0
BAY	Bangor Township	0390	0.54	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.98	3	3	0	0
BAY	Bay City	0470	0.66	30	47	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	9	10	0	0
BAY	Beaver Road Area	0517	0.83	1	1	0	0
BAY	Beaver Township	0518	0.38	2	2	0	0
BAY	Essexville	2180	0.96	4	4	0	0
BAY	Fraser Township	2465	0.66	2	2	0	0
BAY	Hampton Township	2960	0.52	10	10	0	0
BAY	Kawkawlin Township	3565	0.85	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.75	2	2	0	0
BAY	Merritt Township	4280	0.48	2	2	0	0
BAY	Monitor Township	4440	0.83	6	6	0	0
BAY	City of Pinconning	5330	0.50	2	2	0	0
BAY	Pinconning Township	5335	0.62	2	2	0	0
BAY	Portsmouth Township	5540	0.57	1	1	0	0
BAY	Williams Township	7125	0.61	6	6	0	0
Tuscola	Wisner	7134	0.47	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.64	mg/L			
1. Total distribution samples			115				
2. Total distribution samples with detectable free cl2 residual			115				
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			NA				
5. Total distribution samples with no detectable free cl2 residual and HPC was >500			NA				
6. Percent of distribution samples with no detectable free cl2 residual			0.00%				
7. Percent shown line #6 in previous monthly report			0.00%				

