


Bay Area WTP

Monthly Operations Report



July, 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

July, 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>11.6</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>14.50</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>28.96</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,350</u>	Gallons	Estimated Supply:	<u>29.4</u>	days
Caustic Soda on hand:	<u>1,536</u>	Gallons	Estimated Supply:	<u>105.2</u>	days
Corrosion Inhibitor on hand:	<u>810</u>	Gallons	Estimated Supply:	<u>24.7</u>	days
Hydrofluosilicic Acid on hand:	<u>1,548</u>	Gallons	Estimated Supply:	<u>54.8</u>	days
Aluminum Chlorohydrate on hand:	<u>644</u>	Gallons	Estimated Supply:	<u>42.1</u>	days
Sulfuric Acid on hand:	<u>593</u>	Gallons	Estimated Supply:	<u>296.7</u>	days
Sodium Bisulfite on hand:	<u>839</u>	Gallons	Estimated Supply:	<u>289.2</u>	days
Citric Acid on hand:	<u>769</u>	Gallons	Estimated Supply:	<u>61.6</u>	days
Cost of All Chemicals per Million Gallons:	<u>107.23</u>	Dollars			
Estimated Electrical Cost per Million Gallons:	<u>77.03</u>	Dollars			
Estimated Natural Gas Cost per Million Gallons:	<u>3.35</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
7/1/2022	3.75	7.56	11.31	0.39	0.08	10.88	5.18	5.01	10.19
7/2/2022	6.22	5.38	11.60	0.39	0.08	10.02	4.75	4.58	9.33
7/3/2022	2.95	5.99	8.94	0.38	0.08	10.26	4.93	4.76	9.69
7/4/2022	2.50	8.30	10.80	0.30	0.16	11.00	5.19	5.04	10.23
7/5/2022	2.48	8.19	10.67	0.29	0.18	9.83	4.75	4.58	9.33
7/6/2022	2.43	8.46	10.88	0.31	0.19	11.03	5.19	5.02	10.21
7/7/2022	2.41	8.70	11.10	0.40	0.08	11.22	5.34	5.17	10.51
7/8/2022	2.48	8.39	10.87	0.41	0.12	10.72	5.08	4.91	9.99
7/9/2022	2.63	8.26	10.90	0.41	0.09	10.45	4.98	4.81	9.79
7/10/2022	2.68	7.46	10.14	0.35	0.16	11.12	5.32	5.15	10.47
7/11/2022	2.86	8.90	11.76	0.40	0.09	10.61	5.09	4.92	10.01
7/12/2022	2.83	6.89	9.72	0.33	0.12	9.50	4.54	4.37	8.91
7/13/2022	2.76	5.87	8.63	0.33	0.08	9.03	4.24	4.07	8.31
7/14/2022	2.64	6.78	9.42	0.25	0.19	9.47	4.48	4.31	8.79
7/15/2022	2.70	7.27	9.97	0.22	0.25	10.16	4.81	4.64	9.45
7/16/2022	3.12	7.02	10.14	0.20	0.25	9.05	4.32	4.15	8.47
7/17/2022	3.10	6.78	9.88	0.23	0.25	9.89	4.65	4.48	9.13
7/18/2022	2.91	7.86	10.78	0.30	0.25	11.59	5.50	5.33	10.83
7/19/2022	2.97	8.81	11.78	0.33	0.23	11.24	5.47	5.30	10.77
7/20/2022	2.80	8.56	11.36	0.30	0.24	10.68	5.04	4.87	9.91
7/21/2022	2.63	7.64	10.28	0.37	0.11	11.17	5.34	5.17	10.51
7/22/2022	2.69	8.46	11.15	0.42	0.09	11.21	5.37	5.20	10.57
7/23/2022	2.98	8.27	11.25	0.41	0.08	10.48	4.99	4.82	9.81
7/24/2022	2.82	5.89	8.72	0.32	0.08	8.16	3.88	3.71	7.59
7/25/2022	2.54	6.22	8.77	0.33	0.08	8.95	4.34	4.17	8.51
7/26/2022	2.47	6.12	8.58	0.30	0.10	9.44	4.49	4.32	8.81
7/27/2022	2.48	6.83	9.31	0.43	0.08	10.02	4.78	4.61	9.39
7/28/2022	2.48	8.28	10.76	0.31	0.08	9.78	4.70	4.53	9.23
7/29/2022	2.57	8.14	10.71	0.41	0.08	10.31	4.92	4.75	9.67
7/30/2022	2.91	7.00	9.90	0.36	0.08	9.79	4.70	4.53	9.23
7/31/2022	2.82	6.92	9.74	0.37	0.08	10.15	4.85	4.68	9.53
Total	88.60	231.22	319.82	10.54	4.11	317.20	151.21	145.98	297.19
Avg	2.86	7.46	10.32	0.34	0.13	10.23	4.88	4.71	9.59
Min	2.41	5.38	8.58	0.20	0.08	8.16	3.88	3.71	7.59
Max	6.22	8.90	11.78	0.43	0.25	11.59	5.50	5.33	10.83



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	
7/1/2022	16.7	7.98	0.52	3.53	0.09	0.46	Negative	Negative
7/2/2022	16.3	7.99	0.52	0.95	0.08	0.49	Negative	Negative
7/3/2022	16.5	8.04	0.48	0.60	0.09	0.44	Negative	Negative
7/4/2022	17.2	8.07	0.42	0.55	0.09	0.31	Negative	Negative
7/5/2022	18.1	8.07	0.44	0.59	0.09	0.22	Negative	Negative
7/6/2022	18.4	8.06	0.46	0.64	0.09	0.24	Negative	Negative
7/7/2022	18.6	8.07	0.45	0.83	0.08	0.21	Negative	Negative
7/8/2022	19.1	8.00	0.54	1.40	0.11	0.29	Negative	Negative
7/9/2022	18.7	7.99	0.64	1.09	0.09	0.37	Negative	Negative
7/10/2022	19.0	8.01	0.77	2.00	0.10	0.30	Negative	Negative
7/11/2022	19.1	7.90	0.80	2.00	0.10	0.35	Negative	Negative
7/12/2022	19.0	7.90	0.85	4.90	0.09	0.31	Negative	Negative
7/13/2022	18.5	7.95	0.70	2.08	0.09	0.24	Negative	Negative
7/14/2022	17.8	7.92	0.56	1.12	0.09	0.32	Negative	Negative
7/15/2022	17.2	7.90	0.61	2.40	0.09	0.36	Negative	Negative
7/16/2022	17.8	7.98	0.95	2.06	0.09	0.26	Negative	Negative
7/17/2022	18.0	8.20	0.63	0.99	0.09	0.34	Negative	Negative
7/18/2022	17.8	8.24	0.75	26.11	0.08	0.32	Negative	Negative
7/19/2022	18.9	8.09	0.64	1.42	0.09	0.12	Negative	Negative
7/20/2022	19.6	7.98	0.62	1.54	0.09	0.24	Negative	Negative
7/21/2022	19.4	7.91	0.60	1.23	0.09	0.30	Negative	Negative
7/22/2022	18.8	7.84	0.68	1.58	0.08	0.36	Negative	Negative
7/23/2022	18.0	7.84	0.70	1.49	0.08	0.44	Negative	Negative
7/24/2022	17.5	7.84	0.58	1.37	0.07	0.41	Negative	Negative
7/25/2022	17.7	7.83	0.45	0.75	0.07	0.46	Negative	Negative
7/26/2022	17.6	7.83	0.44	1.65	0.07	0.52	Negative	Negative
7/27/2022	17.3	7.86	0.46	1.42	0.07	0.55	Negative	Negative
7/28/2022	16.5	7.93	0.76	14.12	0.07	0.53	Negative	Negative
7/29/2022	16.7	8.04	0.53	1.14	0.07	0.42	Negative	Negative
7/30/2022	17.2	8.07	0.75	1.57	0.07	0.34	Negative	Negative
7/31/2022	17.5	8.04	0.86	1.37	0.07	0.36	Negative	Negative
Avg	18.0	7.98	0.62	2.73	0.08	0.35	NA	NA
Min	16.3	7.83	0.42	0.55	0.07	0.12	NA	NA
Max	19.6	8.24	0.95	26.11	0.11	0.55	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	Bacteriological		
	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				Calculated		Lab
7/1/2022	15.6	7.57	3.40	0.82		1.25	0	80	11	10	72	9.6	248	-0.73	1.10	0.40	Negative	Negative	
7/2/2022	15.1	7.59	3.40	0.79		1.31	0	80	11	10	72	10.6	246	-0.73	1.12	0.40	Negative	Negative	
7/3/2022	15.2	7.59	3.40	0.80		1.30	0	79	12	9	74	10.3	249	-0.72	1.33	0.41	Negative	Negative	
7/4/2022	16.0	7.59	3.40	0.79		1.29	0	80	12	11	76	9.9	256	-0.69	1.09	0.44	Negative	Negative	
7/5/2022	17.1	7.57	3.39	0.79	0.77	1.31	0	81	13	11	76	9.4	260	-0.67	1.15	0.45	Negative	Negative	
7/6/2022	17.7	7.56	3.37	0.81		1.32	0	83	12	11	80	9.2	262	-0.64	1.07	0.42	Negative	Negative	
7/7/2022	17.9	7.53	3.38	1.05		1.32	0	81	13	10	72	8.6	262	-0.72	1.26	0.43	Negative	Negative	
7/8/2022	18.5	7.55	3.38	0.78		1.31	0	78	12	9	76	8.5	264	-0.68	1.33	0.41	Negative	Negative	
7/9/2022	18.4	7.54	3.37	0.78		1.32	0	77	12	10	74	8.9	257	-0.70	1.17	0.43	Negative	Negative	
7/10/2022	18.5	7.54	3.36	0.78		1.29	0	85	13	11	72	8.7	268	-0.68	1.21	0.44	Negative	Negative	
7/11/2022	18.7	7.52	3.36	0.78	0.80	1.32	0	84	13	12	76	8.5	268	-0.67	1.08	0.45	Negative	Negative	
7/12/2022	18.5	7.52	3.37	0.78		1.30	0	85	13	10	68	8.7	266	-0.73	1.30	0.42	Negative	Negative	
7/13/2022	18.2	7.51	3.37	0.79		1.28	0	81	13	12	76	9.4	265	-0.71	1.08	0.47	Negative	Negative	
7/14/2022	17.7	7.53	3.36	0.78		1.32	0	82	11	8	78	9.0	258	-0.68	1.38	0.36	Negative	Negative	
7/15/2022	16.6	7.55	3.36	0.76		1.34	0	76	10	7	70	10.1	247	-0.77	1.36	0.33	Negative	Negative	
7/16/2022	16.3	7.55	3.36	0.77		1.33	0	74	10	10	76	9.1	249	-0.75	1.00	0.41	Negative	Negative	
7/17/2022	16.5	7.57	3.35	0.78		1.32	0	80	11	9	72	10.2	247	-0.71	1.20	0.38	Negative	Negative	
7/18/2022	16.8	7.56	3.32	0.76	0.70	1.34	0	76	10	9	74	9.8	247	-0.72	1.11	0.38	Negative	Negative	
7/19/2022	18.0	7.56	3.37	0.72		1.28	0	78	10	12	78	8.7	260	-0.67	0.83	0.42	Negative	Negative	
7/20/2022	19.3	7.54	3.38	0.73		1.30	0	78	10	11	80	8.9	261	-0.65	0.91	0.40	Negative	Negative	
7/21/2022	19.1	7.51	3.37	0.73		1.32	0	77	11	9	72	9.2	249	-0.73	1.22	0.40	Negative	Negative	
7/22/2022	18.0	7.51	3.37	0.74		1.33	0	76	12	8	68	9.0	243	-0.79	1.50	0.41	Negative	Negative	
7/23/2022	16.5	7.52	3.36	0.76		1.32	0	75	11	9	78	9.6	240	-0.76	1.22	0.41	Negative	Negative	
7/24/2022	15.4	7.54	3.37	0.77		1.30	0	78	11	8	74	11.1	238	-0.77	1.38	0.38	Negative	Negative	
7/25/2022	14.0	7.57	3.37	0.76	0.74	1.32	0	77	11	8	76	10.6	238	-0.77	1.38	0.38	Negative	Negative	
7/26/2022	13.2	7.57	3.36	0.77		1.33	0	75	10	9	72	11.7	232	-0.81	1.11	0.38	Negative	Negative	
7/27/2022	12.9	7.57	3.38	0.76		1.34	0	77	9	9	78	11.0	237	-0.77	1.00	0.35	Negative	Negative	
7/28/2022	12.7	7.58	3.38	0.78		1.34	0	76	9	9	72	9.5	234	-0.81	1.04	0.37	Negative	Negative	
7/29/2022	13.1	7.59	3.37	0.77		1.33	0	75	10	9	76	9.2	235	-0.77	1.11	0.38	Negative	Negative	
7/30/2022	14.0	7.59	3.38	0.78		1.33	0	76	11	8	82	9.9	238	-0.71	1.38	0.39	Negative	Negative	
7/31/2022	14.6	7.59	3.38	0.79		1.33	0	76	10	9	70	9.3	238	-0.77	1.11	0.38	Negative	Negative	
Avg	16.5	7.55	3.37	0.78	0.75	1.31	0	79	11	10	75	9.6	250	-0.73	1.18	0.40	NA	NA	
Min	12.7	7.51	3.32	0.72	0.70	1.25	0	74	9	7	68	8.5	232	-0.81	0.83	0.33	NA	NA	
Max	19.3	7.59	3.40	1.05	0.80	1.34	0	85	13	12	82	11.7	268	-0.64	1.50	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
7/1/2022	0.52	3.53	2.90	0.38	0.021	0.021	96	0	0.0	0.017
7/2/2022	0.52	0.95	3.78	0.50	0.021	0.021	96	0	0.0	0.018
7/3/2022	0.48	0.60	4.80	0.52	0.021	0.021	96	0	0.0	0.018
7/4/2022	0.42	0.55	4.62	0.45	0.021	0.021	96	0	0.0	0.018
7/5/2022	0.44	0.59	5.00	0.43	0.021	0.021	96	0	0.0	0.018
7/6/2022	0.46	0.64	4.24	0.44	0.021	0.021	96	0	0.0	0.018
7/7/2022	0.45	0.83	2.90	0.44	0.021	0.021	96	0	0.0	0.018
7/8/2022	0.54	1.40	2.90	0.49	0.021	0.021	96	0	0.0	0.018
7/9/2022	0.64	1.09	2.10	0.54	0.021	0.021	96	0	0.0	0.018
7/10/2022	0.77	2.00	2.52	0.72	0.021	0.021	96	0	0.0	0.018
7/11/2022	0.80	2.00	2.68	0.77	0.021	0.021	96	0	0.0	0.018
7/12/2022	0.85	4.90	2.71	0.84	0.021	0.021	96	0	0.0	0.018
7/13/2022	0.70	2.08	2.82	0.75	0.021	0.021	96	0	0.0	0.018
7/14/2022	0.56	1.12	4.71	0.64	0.021	0.021	96	0	0.0	0.018
7/15/2022	0.61	2.40	3.49	0.52	0.021	0.021	96	0	0.0	0.018
7/16/2022	0.95	2.06	4.30	0.59	0.021	0.021	96	0	0.0	0.018
7/17/2022	0.63	0.99	5.23	0.65	0.021	0.021	96	0	0.0	0.018
7/18/2022	0.75	26.11	4.59	0.61	0.021	0.021	96	0	0.0	0.018
7/19/2022	0.64	1.42	5.62	0.66	0.021	0.021	96	0	0.0	0.018
7/20/2022	0.62	1.54	5.14	0.65	0.021	0.021	96	0	0.0	0.018
7/21/2022	0.60	1.23	5.23	0.63	0.021	0.021	96	0	0.0	0.018
7/22/2022	0.68	1.58	3.99	0.60	0.021	0.021	96	0	0.0	0.018
7/23/2022	0.70	1.49	3.21	0.58	0.021	0.021	96	0	0.0	0.018
7/24/2022	0.58	1.37	2.05	0.60	0.021	0.021	96	0	0.0	0.018
7/25/2022	0.45	0.75	1.85	0.53	0.021	0.021	96	0	0.0	0.018
7/26/2022	0.44	1.65	1.82	0.46	0.021	0.021	96	0	0.0	0.018
7/27/2022	0.46	1.42	2.60	0.41	0.021	0.021	96	0	0.0	0.018
7/28/2022	0.76	14.12	3.00	0.45	0.021	0.021	96	0	0.0	0.018
7/29/2022	0.53	1.14	4.71	0.43	0.021	0.021	96	0	0.0	0.018
7/30/2022	0.75	1.57	2.88	0.43	0.021	0.021	96	0	0.0	0.018
7/31/2022	0.86	1.37	3.72	0.51	0.021	0.021	96	0	0.0	0.018
Avg	0.62	2.73	3.62	0.56	0.021	0.021	96	0	0.0	0.018
Min	0.42	0.55	1.82	0.38	0.021	0.021	96	0	0.0	0.017
Max	0.95	26.11	5.62	0.84	0.021	0.021	96	0	0.0	0.018

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		
	Average	Max	Max	Average	Max	Max	Average	Max	Max	Average	Max	Max	Average	Max	Max	Average	Max	Max	Average	Max	Max	Average	Max	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	NTU
7/1/2022	4.33	PASS	0.019	4.24	PASS	0.025	4.30	PASS	0.020	4.58	PASS	0.017	4.13	PASS	0.022	4.40	PASS	0.020	4.33	PASS	0.027	4.27	PASS	0.021		
7/2/2022	4.26	PASS	0.019	4.17	PASS	0.025	4.29	PASS	0.022	4.55	PASS	0.017	4.13	PASS	0.021	4.44	PASS	0.020	4.31	PASS	0.028	4.21	PASS	0.022		
7/3/2022	4.23	PASS	0.019	4.05	PASS	0.025	4.24	PASS	0.020	4.51	PASS	0.016	4.12	PASS	0.022	4.42	PASS	0.020	4.30	PASS	0.028	4.21	PASS	0.021		
7/4/2022	4.28	PASS	0.019	4.04	PASS	0.025	4.22	PASS	0.020	4.53	PASS	0.017	4.09	PASS	0.021	4.38	PASS	0.019	4.30	PASS	0.028	4.21	PASS	0.022		
7/5/2022	4.22	PASS	0.019	4.03	PASS	0.025	4.24	PASS	0.021	4.52	PASS	0.018	4.11	PASS	0.023	4.38	PASS	0.019	4.30	PASS	0.027	4.16	PASS	0.022		
7/6/2022	4.20	PASS	0.019	4.02	PASS	0.025	4.25	PASS	0.021	4.47	PASS	0.017	4.10	PASS	0.023	4.34	PASS	0.020	4.28	PASS	0.028	4.15	PASS	0.022		
7/7/2022	4.20	PASS	0.019	4.01	PASS	0.026	4.22	PASS	0.021	4.51	PASS	0.017	4.11	PASS	0.023	4.38	PASS	0.020	4.31	PASS	0.028	4.16	PASS	0.036		
7/8/2022	4.22	PASS	0.019	4.04	PASS	0.026	4.20	PASS	0.021	4.56	PASS	0.017	4.12	PASS	0.022	4.36	PASS	0.021	4.33	PASS	0.029	4.15	PASS	0.029		
7/9/2022	4.22	PASS	0.019	4.05	PASS	0.026	4.22	PASS	0.021	4.52	PASS	0.017	4.13	PASS	0.021	4.38	PASS	0.020	4.33	PASS	0.029	4.17	PASS	0.032		
7/10/2022	4.22	PASS	0.019	4.00	PASS	0.026	4.20	PASS	0.021	4.45	PASS	0.017	4.13	PASS	0.022	4.39	PASS	0.020	4.32	PASS	0.028	4.17	PASS	0.029		
7/11/2022	4.22	PASS	0.019	3.99	PASS	0.026	4.19	PASS	0.021	4.52	PASS	0.017	4.11	PASS	0.021	4.35	PASS	0.020	4.35	PASS	0.029	4.15	PASS	0.035		
7/12/2022	4.20	PASS	0.019	4.01	PASS	0.025	4.20	PASS	0.021	4.49	PASS	0.017	4.14	PASS	0.021	4.34	PASS	0.020	4.31	PASS	0.028	4.17	PASS	0.031		
7/13/2022	4.20	PASS	0.019	4.01	PASS	0.025	4.20	PASS	0.021	4.50	PASS	0.017	4.12	PASS	0.021	4.36	PASS	0.020	4.29	PASS	0.028	4.14	PASS	0.030		
7/14/2022	4.23	PASS	0.019	3.99	PASS	0.026	4.17	PASS	0.021	4.46	PASS	0.016	4.10	PASS	0.021	4.32	PASS	0.020	4.27	PASS	0.028	4.14	PASS	0.027		
7/15/2022	4.23	PASS	0.019	4.02	PASS	0.025	4.20	PASS	0.022	4.50	PASS	0.016	4.10	PASS	0.021	4.32	PASS	0.019	4.29	PASS	0.028	4.14	PASS	0.026		
7/16/2022	4.23	PASS	0.019	4.03	PASS	0.026	4.52	PASS	0.021	4.44	PASS	0.016	4.09	PASS	0.021	4.31	PASS	0.020	4.25	PASS	0.028	4.14	PASS	0.025		
7/17/2022	4.22	PASS	0.019	4.02	PASS	0.026	4.39	PASS	0.021	4.49	PASS	0.016	4.07	PASS	0.022	4.31	PASS	0.020	4.21	PASS	0.028	4.14	PASS	0.025		
7/18/2022	4.19	PASS	0.019	4.01	PASS	0.026	4.27	PASS	0.021	4.48	PASS	0.016	4.08	PASS	0.021	4.28	PASS	0.019	4.26	PASS	0.028	4.12	PASS	0.025		
7/19/2022	4.15	PASS	0.019	4.15	PASS	0.027	4.22	PASS	0.021	4.43	PASS	0.017	4.06	PASS	0.021	4.29	PASS	0.020	4.22	PASS	0.028	4.12	PASS	0.030		
7/20/2022	4.14	PASS	0.019	4.27	PASS	0.026	4.23	PASS	0.021	4.43	PASS	0.017	4.03	PASS	0.021	4.27	PASS	0.020	4.19	PASS	0.028	4.08	PASS	0.024		
7/21/2022	4.20	PASS	0.019	4.29	PASS	0.027	4.21	PASS	0.022	4.43	PASS	0.017	4.06	PASS	0.021	4.22	PASS	0.021	4.24	PASS	0.029	4.08	PASS	0.025		
7/22/2022	4.17	PASS	0.019	4.33	PASS	0.031	4.26	PASS	0.021	4.45	PASS	0.016	4.19	PASS	0.024	4.34	PASS	0.020	4.28	PASS	0.028	4.07	PASS	0.023		
7/23/2022	4.16	PASS	0.019	4.34	PASS	0.025	4.32	PASS	0.022	4.47	PASS	0.016	4.15	PASS	0.021	4.40	PASS	0.019	4.29	PASS	0.028	4.11	PASS	0.024		
7/24/2022	4.20	PASS	0.019	4.36	PASS	0.024	4.30	PASS	0.021	4.53	PASS	0.016	4.15	PASS	0.023	4.40	PASS	0.021	4.32	PASS	0.028	4.16	PASS	0.023		
7/25/2022	4.30	PASS	0.019	4.37	PASS	0.024	4.29	PASS	0.022	4.52	PASS	0.016	4.17	PASS	0.022	4.37	PASS	0.020	4.28	PASS	0.028	4.13	PASS	0.025		
7/26/2022	4.36	PASS	0.019	4.41	PASS	0.024	4.31	PASS	0.021	4.54	PASS	0.016	4.19	PASS	0.023	4.42	PASS	0.020	4.43	PASS	0.028	4.12	PASS	0.024		
7/27/2022	4.31	PASS	0.018	4.36	PASS	0.024	4.31	PASS	0.020	4.50	PASS	0.016	4.18	PASS	0.021	4.44	PASS	0.020	4.45	PASS	0.028	4.15	PASS	0.023		
7/28/2022	4.30	PASS	0.019	4.34	PASS	0.026	4.28	PASS	0.020	4.43	PASS	0.016	4.17	PASS	0.022	4.38	PASS	0.020	4.35	PASS	0.028	4.13	PASS	0.023		
7/29/2022	4.30	PASS	0.020	4.37	PASS	0.027	4.27	PASS	0.020	4.44	PASS	0.016	4.16	PASS	0.021	4.39	PASS	0.020	4.56	PASS	0.028	4.14	PASS	0.022		
7/30/2022	4.31	PASS	0.019	4.40	PASS	0.026	4.30	PASS	0.020	4.41	PASS	0.016	4.17	PASS	0.021	4.42	PASS	0.019	4.53	PASS	0.028	4.14	PASS	0.024		
7/31/2022	4.30	PASS	0.019	4.35	PASS	0.025	4.32	PASS	0.020	4.51	PASS	0.016	4.16	PASS	0.021	4.39	PASS	0.020	4.48	PASS	0.028	4.14	PASS	0.023		
Avg	4.23		0.019	4.16		0.026	4.26		0.021	4.49		0.017	4.12		0.022	4.36		0.020	4.32		0.028	4.15		0.026		
Min	4.14		0.018	3.99		0.024	4.17		0.020	4.41		0.016	4.03		0.021	4.22		0.019	4.19		0.027	4.07		0.021		
Max	4.36		0.020	4.41		0.031	4.52		0.022	4.58		0.018	4.19		0.024	4.44		0.021	4.56		0.029	4.27		0.036		



*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
7/1/2022	10.9	0.46	0.35	0.93	1.39	1.25	3.20	3.40	0.09	0.63	0.82
7/2/2022	10.0	0.49	0.39	0.90	1.42	1.31	3.20	3.40	0.08	0.63	0.79
7/3/2022	10.3	0.44	0.35	0.98	1.43	1.30	3.20	3.40	0.09	0.63	0.80
7/4/2022	11.0	0.31	0.26	1.06	1.43	1.29	3.20	3.40	0.09	0.63	0.79
7/5/2022	9.8	0.22	0.18	1.04	1.45	1.31	3.20	3.39	0.09	0.63	0.79
7/6/2022	11.0	0.24	0.15	1.04	1.45	1.32	3.23	3.37	0.09	0.89	0.81
7/7/2022	11.2	0.21	0.15	1.04	1.44	1.32	3.23	3.38	0.08	0.54	1.05
7/8/2022	10.7	0.29	0.16	1.04	1.45	1.31	3.23	3.38	0.11	0.62	0.78
7/9/2022	10.4	0.37	0.25	0.93	1.44	1.32	3.23	3.37	0.09	0.61	0.78
7/10/2022	11.1	0.30	0.19	1.03	1.44	1.29	3.23	3.36	0.10	0.60	0.78
7/11/2022	10.6	0.35	0.23	1.00	1.46	1.32	3.23	3.36	0.10	0.59	0.78
7/12/2022	9.5	0.31	0.22	1.01	1.42	1.30	3.24	3.37	0.09	0.59	0.78
7/13/2022	9.0	0.24	0.16	1.08	1.44	1.28	3.24	3.37	0.09	0.59	0.79
7/14/2022	9.5	0.32	0.17	0.97	1.47	1.32	3.24	3.36	0.09	0.59	0.78
7/15/2022	10.2	0.36	0.24	0.92	1.44	1.34	3.24	3.36	0.09	0.59	0.76
7/16/2022	9.1	0.26	0.20	0.90	1.44	1.33	3.24	3.36	0.09	0.59	0.77
7/17/2022	9.9	0.34	0.23	0.87	1.44	1.32	3.24	3.35	0.09	0.59	0.78
7/18/2022	11.6	0.32	0.24	0.84	1.44	1.34	3.24	3.32	0.08	0.59	0.76
7/19/2022	11.2	0.12	0.12	0.93	1.39	1.28	3.24	3.37	0.09	0.60	0.72
7/20/2022	10.7	0.24	0.11	0.96	1.47	1.30	3.24	3.38	0.09	0.61	0.73
7/21/2022	11.2	0.30	0.17	0.92	1.44	1.32	3.24	3.37	0.09	0.62	0.73
7/22/2022	11.2	0.36	0.22	0.86	1.44	1.33	3.24	3.37	0.08	0.64	0.74
7/23/2022	10.5	0.44	0.29	0.82	1.41	1.32	3.25	3.36	0.08	0.65	0.76
7/24/2022	8.2	0.41	0.30	0.88	1.41	1.30	3.26	3.37	0.07	0.65	0.77
7/25/2022	9.0	0.46	0.30	0.82	1.41	1.32	3.26	3.37	0.07	0.65	0.76
7/26/2022	9.4	0.52	0.35	0.78	1.41	1.33	3.27	3.36	0.07	0.65	0.77
7/27/2022	10.0	0.55	0.40	0.74	1.42	1.34	3.28	3.38	0.07	0.65	0.76
7/28/2022	9.8	0.53	0.43	0.74	1.41	1.34	3.28	3.38	0.07	0.65	0.78
7/29/2022	10.3	0.42	0.38	0.82	1.42	1.33	3.28	3.37	0.07	0.65	0.77
7/30/2022	9.8	0.34	0.30	0.90	1.43	1.33	3.28	3.38	0.07	0.65	0.78
7/31/2022	10.1	0.36	0.26	0.90	1.42	1.33	3.28	3.38	0.07	0.65	0.79
Avg	10.2	0.35	0.25	0.92	1.43	1.31	3.24	3.37	0.08	0.63	0.78
Min	8.2	0.12	0.11	0.74	1.39	1.25	3.20	3.32	0.07	0.54	0.72
Max	11.6	0.55	0.43	1.08	1.47	1.34	3.28	3.40	0.11	0.89	1.05



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	TIT-1000	Calculated	Calculated	
7/1/2022	64.7	1,932	0.46	884	28.9	24.8	10.2	361	1.19	428	1312	16.7	4.00	Y
7/2/2022	77.1	1,622	0.49	792	28.9	25.1	9.3	396	1.27	503	1295	16.3	4.00	Y
7/3/2022	77.7	1,609	0.44	700	28.9	24.8	9.7	380	1.25	474	1174	16.5	4.00	Y
7/4/2022	71.5	1,748	0.31	537	29.1	24.7	10.2	360	1.25	449	986	17.2	4.00	Y
7/5/2022	65.0	1,923	0.22	427	28.9	23.1	9.3	382	1.23	471	898	18.1	4.00	Y
7/6/2022	63.7	1,963	0.24	462	29.1	23.1	10.2	351	1.27	445	907	18.4	4.00	Y
7/7/2022	63.0	1,987	0.21	415	29.0	22.6	10.5	336	1.30	438	854	18.6	4.00	Y
7/8/2022	66.2	1,890	0.29	548	29.0	24.2	10.0	365	1.28	468	1016	19.1	4.00	Y
7/9/2022	70.4	1,777	0.37	653	29.0	24.4	9.8	374	1.26	472	1124	18.7	4.00	Y
7/10/2022	70.9	1,763	0.30	521	28.9	24.4	10.5	348	1.21	423	944	19.0	4.00	Y
7/11/2022	70.7	1,770	0.35	623	28.9	24.6	10.0	366	1.29	472	1096	19.1	4.00	Y
7/12/2022	70.8	1,767	0.31	554	28.9	22.1	8.9	392	1.25	489	1043	19.0	4.00	Y
7/13/2022	61.3	2,040	0.24	491	28.8	23.0	8.3	427	1.26	539	1030	18.5	4.00	Y
7/14/2022	56.5	2,214	0.32	709	28.8	24.2	8.8	413	1.28	526	1235	17.8	4.00	Y
7/15/2022	53.9	2,323	0.36	841	28.8	22.5	9.5	372	1.32	489	1331	17.2	4.00	Y
7/16/2022	69.5	1,799	0.26	476	28.8	24.1	8.5	428	1.30	558	1034	17.8	4.00	Y
7/17/2022	70.1	1,785	0.34	610	29.0	23.9	9.1	397	1.30	514	1124	18.0	4.00	Y
7/18/2022	69.9	1,789	0.32	578	29.0	24.4	10.8	338	1.31	443	1021	17.8	4.00	Y
7/19/2022	68.2	1,834	0.12	222	29.0	21.3	10.8	320	1.21	389	610	18.9	4.00	Y
7/20/2022	71.3	1,754	0.24	418	28.9	22.1	9.9	353	1.24	438	856	19.6	4.00	Y
7/21/2022	71.8	1,741	0.30	521	28.9	22.6	10.5	336	1.26	424	945	19.4	4.00	Y
7/22/2022	70.1	1,785	0.36	650	29.1	20.7	10.6	323	1.28	414	1064	18.8	4.00	Y
7/23/2022	79.7	1,570	0.44	684	28.9	23.9	9.8	369	1.29	475	1160	18.0	4.00	Y
7/24/2022	80.2	1,559	0.41	632	28.8	24.2	7.6	478	1.24	593	1225	17.5	4.00	Y
7/25/2022	68.6	1,823	0.46	840	28.8	22.7	8.5	415	1.28	532	1371	17.7	4.00	Y
7/26/2022	58.9	2,123	0.52	1107	28.8	24.1	8.8	412	1.30	534	1641	17.6	4.00	Y
7/27/2022	59.9	2,088	0.55	1141	28.8	24.7	9.4	390	1.32	514	1655	17.3	4.00	Y
7/28/2022	60.5	2,069	0.53	1103	28.9	24.4	9.2	395	1.32	520	1623	16.5	4.00	Y
7/29/2022	62.5	2,003	0.42	846	29.0	23.5	9.7	372	1.30	482	1327	16.7	4.00	Y
7/30/2022	73.1	1,712	0.34	577	28.9	24.7	9.2	397	1.30	517	1095	17.2	4.00	Y
7/31/2022	73.7	1,698	0.36	610	28.9	24.3	9.5	382	1.30	495	1106	17.5	4.00	Y
Avg	68.1	1,854	0.35	651	28.9	23.7	9.6	378	1.27	482	1132	18.0	4.00	NA
Min	53.9	1,559	0.12	222	28.8	20.7	7.6	320	1.19	389	610	16.3	4.00	NA
Max	80.2	2,323	0.55	1141	29.1	25.1	10.8	478	1.32	593	1655	19.6	4.00	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	0390				0400			0470							0485					0517	0518		2180
	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City							Bay County					Beaver Rd	Beaver Twp		Essexville
Date	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32
7/1/2022																								
7/2/2022																								
7/3/2022																								
7/4/2022																								
7/5/2022				0.88	1.02	0.93	1.01																	1.06
7/6/2022									0.84	0.47	0.68	0.83	0.36	1.16	0.68									
7/7/2022	0.30															0.94	0.75	0.92	0.83	0.85				
7/8/2022																								
7/9/2022																								
7/10/2022																								
7/11/2022																								
7/12/2022		0.57	0.25	0.63	0.98			0.94	0.75	0.48	0.52	0.84	0.25	1.09	0.61							0.41		
7/13/2022																								1.04
7/14/2022									0.74	0.42	0.42	0.77	0.23	1.07	0.63	0.76	0.78	0.76	0.73	0.80	1.03			
7/15/2022																								
7/16/2022																								
7/17/2022																								
7/18/2022																								
7/19/2022		0.22	0.37	0.66	1.01																	0.31		
7/20/2022									0.83	0.47	0.66	0.66	0.26	1.08	0.71									1.06
7/21/2022																								
7/22/2022																								
7/23/2022																								
7/24/2022																								
7/25/2022																								1.14
7/26/2022									0.91	0.39	0.63	0.78	0.35	1.14	0.74									
7/27/2022																								
7/28/2022									1.08	0.55	0.67	0.68	0.38	1.19	0.80									
7/29/2022																								
7/30/2022																								
7/31/2022																								
Average	0.30	0.66				0.96			0.69							0.81					1.03	0.36		1.08
Min	0.30	0.22				0.93			0.23							0.73					1.03	0.31		1.04
Max	0.30	1.02				1.01			1.19							0.94					1.03	0.41		1.14



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
	Fraser Twp.		Hampton Twp.			Kawkawlin Twp.			Kawkawlin Met.		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
Date	34	35	37	38	39	40	41	42	43	45	46	48	49	52	55	58	59	61	63	65	68	69	70	72
7/1/2022																								
7/2/2022																								
7/3/2022																								
7/4/2022																								
7/5/2022													0.97	0.88	0.88									
7/6/2022			0.56	0.59	0.59																			
7/7/2022	0.40	1.01				1.02	0.66		0.81		0.51					0.49		0.38	0.70	0.52				0.56
7/8/2022																								
7/9/2022																								
7/10/2022																								
7/11/2022																								
7/12/2022													0.95	0.77	0.81						0.75	0.69	0.59	
7/13/2022			0.43	0.54	0.43			0.95	0.83		0.44					0.56								
7/14/2022																								
7/15/2022																								
7/16/2022																								
7/17/2022																								
7/18/2022																								
7/19/2022			0.64	0.40	0.61																0.78	0.76	0.46	
7/20/2022																								
7/21/2022																								
7/22/2022																								
7/23/2022																								
7/24/2022																								
7/25/2022																								
7/26/2022																								
7/27/2022																								
7/28/2022																								
7/29/2022			0.81																					
7/30/2022																								
7/31/2022																								
Average	0.71		0.56			0.88			0.82		0.48		0.88			0.53		0.54		0.52		0.67		0.56
Min	0.40		0.40			0.66			0.81		0.44		0.77			0.49		0.38		0.52		0.46		0.56
Max	1.01		0.81			1.02			0.83		0.51		0.97			0.56		0.70		0.52		0.78		0.56



MONITORING STATION ADDRESSES

- 34. Fraser Elevated Tank, 2949 1/2 N. Huron Rd
- 35. Lloyd's Cabinet, 1947 N Huron Rd
- 37. Hampton DPW, 950 Wagner Rd.
- 38. Bay County Golf Course, 584 W Hampton Rd.
- 39. Sewer Lift Station, 902 Nebobish Rd.
- 40. Bay Co. Road Commisison, 2600 E Beaver Rd
- 41. Parish Rd. Elevated Tank, 1770 E. Parish Rd
- 42. Linwood Tile, 205 S Huron Rd

- 43. Kawkawlin Party Store, 105 Grove St
- 45. Kawkawlin Restaurant, 103 S Huron Rd
- 46. John's Bar, 1476 S Tuscola Rd
- 48. Tool Shed Bar, 12 W Munger Rd
- 49. Wilder Rd Party Store, 2951 E Wilder Rd
- 52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd
- 55. Auburn Fertilizer, 4640 S 7 Mile Rd
- 58. Pinconning City Hall, 208 S Manitou St

- 59. Marathon Gas Station, 511 S Mabel St
- 61. Pinconning Meter Pit, 3005 N Huron Rd
- 63. Master Meter Pit, 2865 Pinconning Rd
- 65. Ike's Welding, 50 N Finn Rd
- 68. Williams Township Hall, 1080 W Midland Rd
- 69. Pump Station, 490 W. Salzburg & 9 Mile Rd
- 70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd
- 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			
				July, 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	0.30	1	1	0	0
BAY	Bangor Township	0390	0.66	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.96	3	3	0	0
BAY	Bay City	0470	0.69	30	42	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.81	9	10	0	0
BAY	Beaver Road Area	0517	1.03	1	1	0	0
BAY	Beaver Township	0518	0.36	2	2	0	0
BAY	Essexville	2180	1.08	4	4	0	0
BAY	Fraser Township	2465	0.71	2	2	0	0
BAY	Hampton Township	2960	0.56	10	10	0	0
BAY	Kawkawlin Township	3565	0.88	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.82	2	2	0	0
BAY	Merritt Township	4280	0.48	2	2	0	0
BAY	Monitor Township	4440	0.88	6	6	0	0
BAY	City of Pinconning	5330	0.53	2	2	0	0
BAY	Pinconning Township	5335	0.54	2	2	0	0
BAY	Portsmouth Township	5540	0.52	1	1	0	0
BAY	Williams Township	7125	0.67	6	6	0	0
Tuscola	Wisner	7134	0.56	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.68	mg/L			
1. Total distribution samples			110				
2. Total distribution samples with detectable free cl2 residual			110				
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%				

