

# Bay Area WTP

## Monthly Operations Report



September, 2023

Water Systems Serial Number: 0465

Carl Overly  
Carl Overly

Water Plant Superintendent  
Title

F-1  
Classification

Mike Wagar  
Mike Wagar

Operations Supervisor  
Title

F-1  
Classification

# Bay Area Water Treatment Plant

## Monthly Operations Report

Supply Name: Bay Area Water System  
 WSSN: 0465

September, 2023  
 Month, Year

F-1  
 Water Plant Classification

Bay  
 County

Carl Overly  
 Operator-in-charge

F-1  
 Certification of 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>8.6</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>15.22</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>27.84</u>	gpd/sq.ft.

### Chemical Data

Sodium Hypochlorite on hand:	<u>4,007</u>	Gallons	Estimated Supply:	<u>39.0</u>	days
Caustic Soda on hand:	<u>3,790</u>	Gallons	Estimated Supply:	<u>259.6</u>	days
Corrosion Inhibitor on hand:	<u>1,420</u>	Gallons	Estimated Supply:	<u>63.5</u>	days
Hydrofluosilicic Acid on hand:	<u>1,674</u>	Gallons	Estimated Supply:	<u>79.3</u>	days
Aluminum Chlorohydrate on hand:	<u>986</u>	Gallons	Estimated Supply:	<u>108.4</u>	days
Sulfuric Acid on hand:	<u>234</u>	Gallons	Estimated Supply:	<u>116.8</u>	days
Sodium Bisulfite on hand:	<u>539</u>	Gallons	Estimated Supply:	<u>186.0</u>	days
Citric Acid on hand:	<u>2,692</u>	Gallons	Estimated Supply:	<u>215.3</u>	days
Cost of All Chemicals per Million Gallons:	<u>122.83</u>	Dollars			
Estimated Electrical Cost per Million Gallons:		Dollars			
Estimated Natural Gas Cost per Million Gallons:		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
9/1/2023	4.62	4.81	9.43	0.12	0.26	7.72	3.73	3.38	7.10
9/2/2023	4.57	4.75	9.32	0.14	0.26	7.27	3.58	3.23	6.80
9/3/2023	4.13	4.41	8.54	0.18	0.26	7.26	3.55	3.22	6.77
9/4/2023	3.19	3.84	7.04	0.15	0.26	8.33	4.01	3.69	7.69
9/5/2023	3.69	4.32	8.01	0.16	0.26	8.58	4.17	3.79	7.96
9/6/2023	3.98	5.55	9.54	0.20	0.21	7.82	3.91	3.44	7.36
9/7/2023	3.71	5.12	8.83	0.29	0.08	8.33	4.09	3.73	7.82
9/8/2023	3.83	4.05	7.88	0.31	0.08	7.63	3.68	3.31	6.99
9/9/2023	4.31	2.62	6.92	0.22	0.15	7.40	3.65	3.30	6.95
9/10/2023	4.23	3.75	7.97	0.25	0.11	7.53	3.60	3.24	6.84
9/11/2023	3.92	3.71	7.63	0.26	0.09	7.48	3.68	3.29	6.97
9/12/2023	3.64	3.82	7.46	0.19	0.20	7.64	3.77	3.33	7.09
9/13/2023	3.66	3.59	7.25	0.21	0.19	7.98	3.87	3.41	7.28
9/14/2023	3.68	3.85	7.53	0.09	0.25	6.43	3.33	2.84	6.17
9/15/2023	3.51	3.99	7.51	0.19	0.16	7.07	3.47	2.94	6.41
9/16/2023	2.90	4.01	6.91	0.14	0.22	7.16	3.49	2.96	6.45
9/17/2023	3.37	3.64	7.01	0.13	0.26	6.58	3.37	2.87	6.24
9/18/2023	3.48	3.81	7.28	0.13	0.26	7.10	3.53	3.12	6.65
9/19/2023	3.31	3.95	7.27	0.16	0.26	7.40	3.59	3.08	6.66
9/20/2023	3.28	3.98	7.26	0.14	0.26	7.58	3.79	3.23	7.02
9/21/2023	3.02	4.88	7.90	0.15	0.21	7.00	3.49	2.97	6.46
9/22/2023	2.47	5.70	8.17	0.16	0.26	7.90	4.00	3.36	7.36
9/23/2023	2.84	5.29	8.12	0.17	0.20	7.41	3.69	3.17	6.87
9/24/2023	2.67	4.29	6.96	0.14	0.25	7.25	3.55	3.03	6.58
9/25/2023	2.40	4.75	7.15	0.12	0.25	6.86	3.45	3.01	6.45
9/26/2023	2.34	4.96	7.30	0.10	0.25	6.69	3.30	2.83	6.13
9/27/2023	2.09	4.74	6.83	0.13	0.22	7.15	3.47	3.05	6.52
9/28/2023	2.72	4.34	7.06	0.13	0.25	6.64	3.32	2.79	6.11
9/29/2023	2.69	3.95	6.64	0.09	0.23	6.97	3.48	2.94	6.42
9/30/2023	2.64	3.61	6.25	0.15	0.24	6.90	3.41	2.88	6.29
Total	100.90	128.08	228.98	5.01	6.43	221.05	108.99	95.43	204.43
Avg	3.36	4.27	7.63	0.17	0.21	7.37	3.63	3.18	6.81
Min	2.09	2.62	6.25	0.09	0.08	6.43	3.30	2.79	6.11
Max	4.62	5.70	9.54	0.31	0.26	8.58	4.17	3.79	7.96



Raw Water Analysis								
Date	Temp	pH	Turbidity		F <sup>-</sup>	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	
9/1/2023	20.1	7.99	1.30	2.03	0.08	0.06	Negative	Negative
9/2/2023	20.1	8.01	2.00	2.81	0.08	0.08	Positive	Negative
9/3/2023	20.2	8.02	1.45	2.85	0.08	0.09	Negative	Negative
9/4/2023	20.3	7.97	1.22	2.57	0.09	0.07	Negative	Negative
9/5/2023	20.4	7.84	1.01	2.06	0.08	0.10	Negative	Negative
9/6/2023	20.3	7.65	0.69	1.13	0.08	0.23	Negative	Negative
9/7/2023	20.1	7.63	0.57	0.85	0.08	0.25	Negative	Negative
9/8/2023	19.6	7.68	0.62	0.84	0.08	0.24	Negative	Negative
9/9/2023	19.7	7.89	1.03	1.55	0.08	0.22	Negative	Negative
9/10/2023	19.9	7.93	0.96	1.82	0.08	0.23	Negative	Negative
9/11/2023	20.0	7.92	0.93	2.17	0.08	0.21	Negative	Negative
9/12/2023	20.1	7.94	1.00	1.31	0.09	0.11	Positive	Negative
9/13/2023	19.8	8.04	0.78	1.21	0.09	0.08	Negative	Negative
9/14/2023	19.8	8.01	0.87	1.18	0.08	0.06	Negative	Negative
9/15/2023	19.6	8.02	1.01	1.22	0.08	0.05	Negative	Negative
9/16/2023	19.5	8.06	1.46	1.77	0.08	0.05	Negative	Negative
9/17/2023	19.5	8.10	1.82	2.24	0.08	0.05	Negative	Negative
9/18/2023	19.6	8.03	1.57	1.82	0.08	0.05	Negative	Negative
9/19/2023	19.6	7.99	1.35	1.75	0.08	0.04	Negative	Negative
9/20/2023	19.6	7.96	0.94	1.47	0.08	0.05	Negative	Negative
9/21/2023	19.5	7.93	0.90	1.14	0.08	0.06	Negative	Negative
9/22/2023	19.6	7.94	1.42	2.10	0.08	0.04	Negative	Negative
9/23/2023	19.6	7.82	1.39	1.97	0.08	0.14	Negative	Negative
9/24/2023	19.6	7.79	0.97	1.18	0.08	0.25	Negative	Negative
9/25/2023	19.7	7.83	0.91	1.67	0.08	0.19	Negative	Negative
9/26/2023	19.7	7.88	1.28	2.34	0.08	0.08	Negative	Negative
9/27/2023	19.7	7.96	1.41	2.27	0.08	0.05	Negative	Negative
9/28/2023	19.6	8.01	2.04	2.69	0.08	0.04	Negative	Negative
9/29/2023	19.6	7.93	2.43	2.95	0.09	0.04	Negative	Negative
9/30/2023	19.7	7.92	2.36	2.50	0.08	0.04	Negative	Negative
Avg	19.8	7.92	1.26	1.85	0.08	0.11	NA	NA
Min	19.5	7.63	0.57	0.84	0.08	0.04	NA	NA
Max	20.4	8.10	2.43	2.95	0.09	0.25	NA	NA



Finished Water Analysis

Date	Temp	pH	Phosphate	Fluoride		Free Cl <sub>2</sub>	Alkalinity (as CaCO <sub>3</sub> )		Chloride	Sulfate	Calcium (as CaCO <sub>3</sub> )	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	
9/1/2023	20.7	7.54	3.37	0.75		1.31	0	79	12	11	76	8.6	240	-0.63	1.09	0.44	Negative	Negative
9/2/2023	20.5	7.59	3.37	0.75		1.28	0	81	13	10	78	8.8	247	-0.57	1.30	0.44	Negative	Negative
9/3/2023	20.5	7.59	3.37	0.75		1.30	0	81	12	11	76	8.6	246	-0.58	1.09	0.43	Negative	Negative
9/4/2023	20.5	7.56	3.37	0.75		1.30	0	81	13	11	80	8.6	245	-0.58	1.18	0.45	Negative	Negative
9/5/2023	20.5	7.48	3.38	0.76	0.76	1.30	0	80	13	10	78	8.7	241	-0.68	1.30	0.44	Negative	Negative
9/6/2023	20.4	7.46	3.41	0.79		1.33	0	78	12	13	76	8.4	235	-0.72	0.92	0.48	Negative	Negative
9/7/2023	20.0	7.44	3.37	0.78		1.32	0	79	12	10	68	8.1	229	-0.79	1.20	0.43	Negative	Negative
9/8/2023	19.5	7.48	3.36	0.76		1.32	0	79	12	11	70	8.3	228	-0.75	1.09	0.44	Negative	Negative
9/9/2023	19.2	7.49	3.35	0.77		1.32	0	78	11	10	66	8.3	230	-0.77	1.10	0.41	Negative	Negative
9/10/2023	19.5	7.52	3.35	0.77		1.31	0	79	12	11	72	8.6	234	-0.70	1.09	0.44	Negative	Negative
9/11/2023	19.8	7.51	3.35	0.78	0.79	1.30	0	81	12	11	64	9.2	234	-0.73	1.09	0.43	Negative	Negative
9/12/2023	19.9	7.53	3.35	0.77		1.29	0	83	12	11	68	9.0	237	-0.68	1.09	0.42	Negative	Negative
9/13/2023	19.9	7.58	3.35	0.79		1.29	0	80	12	13	68	8.7	239	-0.65	0.92	0.47	Negative	Negative
9/14/2023	19.9	7.57	3.37	0.79		1.29	0	78	12	12	76	9.0	241	-0.63	1.00	0.46	Negative	Negative
9/15/2023	19.8	7.60	3.37	0.79		1.28	0	79	13	11	76	8.8	241	-0.59	1.18	0.46	Negative	Negative
9/16/2023	19.7	7.62	3.37	0.79		1.29	0	80	12	11	76	8.9	243	-0.56	1.09	0.44	Negative	Negative
9/17/2023	19.6	7.63	3.36	0.79		1.30	0	80	14	11	78	9.0	245	-0.55	1.27	0.48	Negative	Negative
9/18/2023	19.6	7.64	3.35	0.79	0.79	1.30	0	80	14	12	80	8.8	248	-0.53	1.17	0.50	Negative	Negative
9/19/2023	19.5	7.62	3.37	0.78		1.28	0	79	14	11	80	8.8	246	-0.55	1.27	0.49	Negative	Negative
9/20/2023	19.5	7.57	3.37	0.79		1.30	0	81	11	12	76	8.8	242	-0.61	0.92	0.42	Negative	Negative
9/21/2023	19.3	7.57	3.36	0.77		1.32	0	81	13	12	72	8.7	238	-0.64	1.08	0.47	Negative	Negative
9/22/2023	19.4	7.52	3.36	0.78		1.33	0	83	11	12	70	8.4	240	-0.69	0.92	0.41	Negative	Negative
9/23/2023	19.2	7.56	3.37	0.79		1.30	0	81	12	11	72	8.5	239	-0.65	1.09	0.43	Negative	Negative
9/24/2023	19.1	7.57	3.36	0.78		1.30	0	80	12	13	70	9.0	240	-0.67	0.92	0.47	Negative	Negative
9/25/2023	19.2	7.54	3.36	0.78	0.80	1.30	0	81	13	12	68	8.5	239	-0.69	1.08	0.47	Negative	Negative
9/26/2023	19.3	7.53	3.36	0.78		1.31	0	79	13	11	70	8.4	238	-0.70	1.18	0.46	Negative	Negative
9/27/2023	19.3	7.55	3.35	0.79		1.29	0	77	12	13	74	8.8	234	-0.67	0.92	0.49	Negative	Negative
9/28/2023	19.2	7.61	3.37	0.80		1.28	0	78	12	12	78	8.9	236	-0.58	1.00	0.46	Negative	Negative
9/29/2023	19.2	7.59	3.37	0.80		1.27	0	79	12	13	76	8.7	243	-0.61	0.92	0.47	Negative	Negative
9/30/2023	19.2	7.61	3.38	0.79		1.27	0	78	14	11	78	8.6	244	-0.59	1.27	0.49	Negative	Negative
Avg	19.7	7.56	3.36	0.78	0.79	1.30	0	80	12	11	74	8.7	239	-0.64	1.09	0.45	NA	NA
Min	19.1	7.44	3.35	0.75	0.76	1.27	0	77	11	10	64	8.1	228	-0.79	0.92	0.41	NA	NA
Max	20.7	7.64	3.41	0.80	0.80	1.33	0	83	14	13	80	9.2	248	-0.53	1.30	0.50	NA	NA



Turbidity												
Date	Raw Water		Clarified Water	Membrane Feed Water	Combined Membrane Filtrate					Finished Water (N. Euclid)	Finished Water (Lauria)	Finished Water
	Avg	Max	Avg	Avg	Avg	Max	# Samples	# > 0.3	% Exceeded	Avg	Avg	Avg
	NTU											
	AIT-1000-1		AIT-5030-1	AIT-1035-3	AIT-4000-1					AIT-4040-4	AIT-4050-4	Calculated
9/1/2023	1.30	2.03	4.13	1.29	0.024	0.025	96	0	0.0	0.03	#DIV/0!	0.025
9/2/2023	2.00	2.81	8.11	1.88	0.025	0.025	96	0	0.0	0.03	#DIV/0!	0.025
9/3/2023	1.45	2.85	4.24	1.93	0.025	0.025	96	0	0.0	0.03	#DIV/0!	0.025
9/4/2023	1.22	2.57	5.71	1.72	0.025	0.025	96	0	0.0	0.03	#DIV/0!	0.025
9/5/2023	1.01	2.06	6.31	1.45	0.025	0.026	96	0	0.0	0.03	#DIV/0!	0.025
9/6/2023	0.69	1.13	2.93	1.00	0.025	0.026	96	0	0.0	0.03	#DIV/0!	0.025
9/7/2023	0.57	0.85	3.80	0.76	0.025	0.025	96	0	0.0	0.01	#DIV/0!	0.015
9/8/2023	0.62	0.84	4.04	0.70	0.025	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/9/2023	1.03	1.55	5.21	0.80	0.026	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/10/2023	0.96	1.82	12.43	1.05	0.026	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/11/2023	0.93	2.17	18.71	1.07	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/12/2023	1.00	1.31	25.39	1.11	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/13/2023	0.78	1.21	21.53	1.58	0.027	0.047	96	0	0.0	0.02	#DIV/0!	0.015
9/14/2023	0.87	1.18	5.27	1.10	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/15/2023	1.01	1.22	8.26	1.13	0.026	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/16/2023	1.46	1.77	6.71	1.35	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/17/2023	1.82	2.24	8.56	1.66	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/18/2023	1.57	1.82	11.42	1.74	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/19/2023	1.35	1.75	11.29	1.63	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/20/2023	0.94	1.47	8.90	1.30	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/21/2023	0.90	1.14	10.32	1.10	0.026	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/22/2023	1.42	2.10	13.21	1.22	0.026	0.026	96	0	0.0	0.01	#DIV/0!	0.015
9/23/2023	1.39	1.97	25.28	1.62	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/24/2023	0.97	1.18	15.17	1.39	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/25/2023	0.91	1.67	11.23	1.06	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/26/2023	1.28	2.34	8.73	1.00	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/27/2023	1.41	2.27	15.16	1.21	0.026	0.037	96	0	0.0	0.02	#DIV/0!	0.015
9/28/2023	2.04	2.69	8.33	1.43	0.026	0.027	96	0	0.0	0.02	#DIV/0!	0.015
9/29/2023	2.43	2.95	10.77	1.77	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
9/30/2023	2.36	2.50	9.99	1.92	0.026	0.026	96	0	0.0	0.02	#DIV/0!	0.015
Avg	1.26	1.85	10.37	1.33	0.025	0.027	96	0	0.0	0.02	NA	0.017
Min	0.57	0.84	2.93	0.70	0.024	0.025	96	0	0.0	0.01	NA	0.015
Max	2.43	2.95	25.39	1.93	0.027	0.047	96	0	0.0	0.03	NA	0.025

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	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max		
psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU
9/1/2023	4.54	PASS	0.020	4.14	PASS	0.025	4.17	PASS	0.021	4.37	PASS	0.017	4.51	PASS	0.024	4.24	PASS	0.024	4.16	PASS	0.030	4.62	PASS	0.025		
9/2/2023	4.37	PASS	0.020	4.13	PASS	0.025	4.15	PASS	0.020	4.35	PASS	0.018	4.55	PASS	0.024	4.21	PASS	0.024	4.21	PASS	0.030	4.60	PASS	0.026		
9/3/2023	4.23	PASS	0.020	4.13	PASS	0.025	4.15	PASS	0.020	4.35	PASS	0.018	4.56	PASS	0.024	4.21	PASS	0.024	4.21	PASS	0.030	4.62	PASS	0.026		
9/4/2023	4.20	PASS	0.021	4.09	PASS	0.025	4.16	PASS	0.020	4.33	PASS	0.018	4.62	PASS	0.024	4.20	PASS	0.024	4.16	PASS	0.030	4.61	PASS	0.026		
9/5/2023	4.17	PASS	0.020	4.13	PASS	0.025	4.15	PASS	0.020	4.30	PASS	0.017	4.54	PASS	0.025	4.21	PASS	0.024	4.12	PASS	0.029	4.60	PASS	0.025		
9/6/2023	4.25	PASS	0.020	4.16	PASS	0.025	4.16	PASS	0.020	4.31	PASS	0.017	4.60	PASS	0.025	4.23	PASS	0.024	4.21	PASS	0.029	4.61	PASS	0.025		
9/7/2023	4.21	PASS	0.020	4.15	PASS	0.025	4.16	PASS	0.019	4.32	PASS	0.017	5.24	PASS	0.022	4.24	PASS	0.024	4.21	PASS	0.029	4.60	PASS	0.025		
9/8/2023	4.21	PASS	0.020	4.16	PASS	0.025	4.18	PASS	0.019	4.41	PASS	0.017	5.37	PASS	0.022	4.31	PASS	0.023	4.22	PASS	0.029	4.67	PASS	0.024		
9/9/2023	4.22	PASS	0.020	4.16	PASS	0.025	4.24	PASS	0.019	4.42	PASS	0.017	5.38	PASS	0.024	4.32	PASS	0.024	4.22	PASS	0.028	4.69	PASS	0.025		
9/10/2023	4.20	PASS	0.022	4.15	PASS	0.025	4.20	PASS	0.019	4.38	PASS	0.017	5.39	PASS	0.023	4.28	PASS	0.024	4.23	PASS	0.029	4.66	PASS	0.025		
9/11/2023	4.15	PASS	0.022	4.14	PASS	0.025	4.13	PASS	0.020	4.37	PASS	0.018	5.35	PASS	0.023	4.29	PASS	0.024	4.23	PASS	0.029	4.64	PASS	0.026		
9/12/2023	4.16	PASS	0.022	4.13	PASS	0.025	4.11	PASS	0.020	4.37	PASS	0.018	5.37	PASS	0.023	4.24	PASS	0.024	4.21	PASS	0.029	4.64	PASS	0.025		
9/13/2023	4.12	PASS	0.022	4.10	PASS	0.025	4.14	PASS	0.021	4.36	PASS	0.018	5.30	PASS	0.023	4.25	PASS	0.024	4.24	PASS	0.030	4.60	PASS	0.023		
9/14/2023	4.13	PASS	0.022	4.13	PASS	0.025	4.15	PASS	0.020	4.34	PASS	0.018	5.32	PASS	0.023	4.21	PASS	0.024	4.30	PASS	0.030	4.62	PASS	0.023		
9/15/2023	4.13	PASS	0.022	4.11	PASS	0.025	4.15	PASS	0.027	4.33	PASS	0.018	5.35	PASS	0.023	4.36	PASS	0.024	4.21	PASS	0.029	4.64	PASS	0.024		
9/16/2023	4.13	PASS	0.023	4.10	PASS	0.025	4.12	PASS	0.020	4.34	PASS	0.018	5.33	PASS	0.023	4.30	PASS	0.025	4.17	PASS	0.029	4.61	PASS	0.025		
9/17/2023	4.12	PASS	0.022	4.07	PASS	0.025	4.11	PASS	0.020	4.35	PASS	0.018	5.32	PASS	0.023	4.21	PASS	0.025	4.12	PASS	0.029	4.60	PASS	0.025		
9/18/2023	4.10	PASS	0.022	4.07	PASS	0.025	4.14	PASS	0.020	4.32	PASS	0.018	5.33	PASS	0.025	4.18	PASS	0.025	4.15	PASS	0.029	4.57	PASS	0.027		
9/19/2023	4.16	PASS	0.022	4.09	PASS	0.025	4.11	PASS	0.020	4.29	PASS	0.018	5.34	PASS	0.023	4.17	PASS	0.025	4.16	PASS	0.029	4.61	PASS	0.033		
9/20/2023	4.14	PASS	0.022	4.08	PASS	0.025	4.10	PASS	0.020	4.36	PASS	0.018	5.33	PASS	0.023	4.22	PASS	0.024	4.15	PASS	0.029	4.61	PASS	0.032		
9/21/2023	4.12	PASS	0.022	4.05	PASS	0.025	4.35	PASS	0.020	4.34	PASS	0.018	5.59	PASS	0.023	4.18	PASS	0.025	4.11	PASS	0.030	4.59	PASS	0.031		
9/22/2023	4.09	PASS	0.022	4.04	PASS	0.025	4.23	PASS	0.020	4.43	PASS	0.018	5.55	PASS	0.023	4.17	PASS	0.025	4.13	PASS	0.029	4.59	PASS	0.031		
9/23/2023	4.12	PASS	0.022	4.07	PASS	0.026	4.15	PASS	0.020	4.48	PASS	0.018	5.53	PASS	0.023	4.15	PASS	0.024	4.12	PASS	0.029	4.60	PASS	0.032		
9/24/2023	4.14	PASS	0.022	4.07	PASS	0.025	4.12	PASS	0.020	4.45	PASS	0.018	5.60	PASS	0.023	4.39	PASS	0.025	4.12	PASS	0.029	4.59	PASS	0.031		
9/25/2023	4.13	PASS	0.023	4.07	PASS	0.026	4.22	PASS	0.021	4.45	PASS	0.018	5.58	PASS	0.024	4.34	PASS	0.025	4.13	PASS	0.029	4.61	PASS	0.032		
9/26/2023	4.13	PASS	0.026	4.06	PASS	0.026	4.16	PASS	0.021	4.43	PASS	0.018	5.53	PASS	0.023	4.30	PASS	0.024	4.18	PASS	0.036	4.60	PASS	0.042		
9/27/2023	4.15	PASS	0.021	4.06	PASS	0.026	4.09	PASS	0.022	4.40	PASS	0.018	5.61	PASS	0.025	4.23	PASS	0.025	4.17	PASS	0.028	4.59	PASS	0.024		
9/28/2023	4.14	PASS	0.021	4.05	PASS	0.026	4.07	PASS	0.021	4.37	PASS	0.018	5.57	PASS	0.023	4.18	PASS	0.026	4.14	PASS	0.028	4.59	PASS	0.024		
9/29/2023	4.10	PASS	0.021	4.03	PASS	0.026	4.12	PASS	0.021	4.34	PASS	0.018	5.57	PASS	0.024	4.19	PASS	0.025	4.10	PASS	0.029	4.57	PASS	0.026		
9/30/2023	4.11	PASS	0.021	3.43	PASS	0.026	3.56	PASS	0.021	4.24	PASS	0.018	4.76	PASS	0.024	4.14	PASS	0.025	4.08	PASS	0.028	4.52	PASS	0.026		
Avg	4.17		0.021	4.08		0.025	4.13		0.020	4.36		0.018	5.23		0.023	4.24		0.024	4.17		0.029	4.61		0.027		
Min	4.09		0.020	3.43		0.025	3.56		0.019	4.24		0.017	4.51		0.022	4.14		0.023	4.08		0.028	4.52		0.023		
Max	4.54		0.026	4.16		0.026	4.35		0.027	4.48		0.018	5.61		0.025	4.39		0.026	4.30		0.036	4.69		0.042		

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



Treatment Chemical Dosages											
Date	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydroflourosilicic 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 <sub>2</sub>					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
9/1/2023	7.7	0.06	0.04	1.46	1.46	1.31	3.30	3.37	0.08	0.64	0.75
9/2/2023	7.3	0.08	0.03	1.58	1.52	1.28	3.30	3.37	0.08	0.64	0.75
9/3/2023	7.3	0.09	0.04	1.54	1.49	1.30	3.30	3.37	0.08	0.64	0.75
9/4/2023	8.3	0.07	0.03	1.54	1.50	1.30	3.30	3.37	0.09	0.64	0.75
9/5/2023	8.6	0.10	0.04	1.56	1.49	1.30	3.30	3.38	0.08	0.66	0.76
9/6/2023	7.8	0.23	0.08	1.42	1.48	1.33	3.30	3.41	0.08	0.68	0.79
9/7/2023	8.3	0.25	0.11	1.40	1.45	1.32	3.30	3.37	0.08	0.68	0.78
9/8/2023	7.6	0.24	0.11	1.40	1.44	1.32	3.30	3.36	0.08	0.68	0.76
9/9/2023	7.4	0.22	0.10	1.44	1.45	1.32	3.30	3.35	0.08	0.68	0.77
9/10/2023	7.5	0.23	0.10	1.44	1.44	1.31	3.30	3.35	0.08	0.68	0.77
9/11/2023	7.5	0.21	0.09	1.48	1.45	1.30	3.30	3.35	0.08	0.68	0.78
9/12/2023	7.6	0.11	0.06	1.52	1.44	1.29	3.30	3.35	0.09	0.68	0.77
9/13/2023	8.0	0.08	0.04	1.60	1.46	1.29	3.31	3.35	0.09	0.68	0.79
9/14/2023	6.4	0.06	0.04	1.60	1.47	1.29	3.32	3.37	0.08	0.68	0.79
9/15/2023	7.1	0.05	0.03	1.64	1.46	1.28	3.32	3.37	0.08	0.68	0.79
9/16/2023	7.2	0.05	0.03	1.72	1.49	1.29	3.32	3.37	0.08	0.68	0.79
9/17/2023	6.6	0.05	0.03	1.70	1.50	1.30	3.32	3.36	0.08	0.68	0.79
9/18/2023	7.1	0.05	0.03	1.68	1.48	1.30	3.33	3.35	0.08	0.68	0.79
9/19/2023	7.4	0.04	0.02	1.72	1.48	1.28	3.34	3.37	0.08	0.68	0.78
9/20/2023	7.6	0.05	0.02	1.72	1.50	1.30	3.34	3.37	0.08	0.68	0.79
9/21/2023	7.0	0.06	0.02	1.72	1.51	1.32	3.34	3.36	0.08	0.68	0.77
9/22/2023	7.9	0.04	0.03	1.72	1.50	1.33	3.34	3.36	0.08	0.68	0.78
9/23/2023	7.4	0.14	0.03	1.72	1.50	1.30	3.34	3.37	0.08	0.68	0.79
9/24/2023	7.2	0.25	0.05	1.60	1.49	1.30	3.34	3.36	0.08	0.68	0.78
9/25/2023	6.9	0.19	0.06	1.64	1.49	1.30	3.34	3.36	0.08	0.68	0.78
9/26/2023	6.7	0.08	0.04	1.68	1.48	1.31	3.34	3.36	0.08	0.68	0.78
9/27/2023	7.2	0.05	0.03	1.78	1.48	1.29	3.35	3.35	0.08	0.68	0.79
9/28/2023	6.6	0.04	0.03	1.80	1.50	1.28	3.36	3.37	0.08	0.68	0.80
9/29/2023	7.0	0.04	0.03	1.84	1.50	1.27	3.36	3.37	0.09	0.68	0.80
9/30/2023	6.9	0.04	0.03	1.86	1.52	1.27	3.36	3.38	0.08	0.68	0.79
Avg	7.4	0.11	0.05	1.62	1.48	1.30	3.32	3.36	0.08	0.67	0.78
Min	6.4	0.04	0.02	1.40	1.44	1.27	3.30	3.35	0.08	0.64	0.75
Max	8.6	0.25	0.11	1.86	1.52	1.33	3.36	3.41	0.09	0.68	0.80





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 <sub>2</sub>	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
9/1/2023	48.5	2,581	0.06	143	28.8	24.9	7.1	518	1.28	664	808	20.1	2.00	Y
9/2/2023	67.8	1,846	0.08	145	28.8	25.9	6.8	551	1.22	672	817	20.1	2.00	Y
9/3/2023	68.5	1,826	0.09	163	28.7	25.2	6.8	546	1.23	670	833	20.2	2.00	Y
9/4/2023	68.2	1,834	0.07	134	28.8	24.8	7.7	478	1.22	583	717	20.3	2.00	Y
9/5/2023	53.2	2,350	0.10	241	28.8	24.3	8.0	457	1.25	574	815	20.4	2.00	Y
9/6/2023	50.8	2,464	0.23	560	28.6	24.8	7.4	498	1.27	631	1191	20.3	2.00	Y
9/7/2023	51.3	2,439	0.25	614	28.8	23.7	7.8	460	1.26	580	1193	20.1	2.00	Y
9/8/2023	47.4	2,642	0.24	630	28.8	24.2	7.0	519	1.26	655	1285	19.6	4.00	Y
9/9/2023	61.5	2,033	0.22	449	28.7	23.7	7.0	517	1.28	659	1108	19.7	4.00	Y
9/10/2023	65.2	1,917	0.23	432	28.7	23.9	6.8	527	1.23	650	1083	19.9	4.00	Y
9/11/2023	66.0	1,896	0.21	400	28.7	25.2	7.0	530	1.23	650	1050	20.0	2.00	Y
9/12/2023	52.5	2,384	0.11	270	28.8	23.6	7.1	506	1.28	645	915	20.1	2.00	Y
9/13/2023	42.4	2,949	0.08	233	28.2	17.0	7.3	426	1.23	525	758	19.8	4.00	Y
9/14/2023	43.0	2,907	0.06	173	28.6	21.8	6.2	559	1.25	698	871	19.8	4.00	Y
9/15/2023	47.5	2,632	0.05	126	28.7	21.8	6.4	540	1.22	659	786	19.6	4.00	Y
9/16/2023	61.4	2,037	0.05	99	28.7	24.4	6.4	565	1.25	704	804	19.5	4.00	Y
9/17/2023	62.0	2,016	0.05	101	28.7	24.0	6.2	579	1.23	710	811	19.5	4.00	Y
9/18/2023	61.2	2,044	0.05	104	28.7	22.2	6.7	524	1.23	643	747	19.6	4.00	Y
9/19/2023	49.0	2,552	0.04	114	28.6	21.1	6.7	511	1.19	609	724	19.6	4.00	Y
9/20/2023	41.7	2,998	0.05	159	28.8	25.1	7.0	526	1.25	656	815	19.6	4.00	Y
9/21/2023	41.2	3,033	0.06	172	28.6	23.2	6.5	549	1.28	703	875	19.5	4.00	Y
9/22/2023	49.3	2,537	0.04	110	28.7	22.8	7.4	480	1.28	612	722	19.6	4.00	Y
9/23/2023	66.8	1,873	0.14	259	28.8	24.5	6.9	532	1.27	675	934	19.6	4.00	Y
9/24/2023	67.5	1,853	0.25	470	28.7	24.5	6.6	554	1.25	695	1165	19.6	4.00	Y
9/25/2023	61.1	2,047	0.19	395	28.7	24.0	6.5	560	1.23	687	1082	19.7	4.00	Y
9/26/2023	46.4	2,698	0.08	211	28.6	23.0	6.1	577	1.26	728	939	19.7	4.00	Y
9/27/2023	41.2	3,038	0.05	138	28.7	23.8	6.5	552	1.23	677	815	19.7	4.00	Y
9/28/2023	38.2	3,274	0.04	131	28.6	24.9	6.1	600	1.20	720	850	19.6	4.00	Y
9/29/2023	35.8	3,499	0.04	136	28.6	24.1	6.4	564	1.23	691	827	19.6	4.00	Y
9/30/2023	36.3	3,450	0.04	144	28.7	24.2	6.3	576	1.23	707	851	19.7	4.00	Y
Avg	53.1	2,455	0.11	249	28.7	23.7	6.8	529	1.24	658	906	19.8	3.40	NA
Min	35.8	1,826	0.04	99	28.2	17.0	6.1	426	1.19	525	717	19.5	2.00	NA
Max	68.5	3,499	0.25	630	28.8	25.9	8.0	600	1.28	728	1285	20.4	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 <sub>2</sub> )																								
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
9/1/2023																								
9/2/2023																								
9/3/2023																								
9/4/2023																								
9/5/2023	0.06	0.55	0.54	0.34	0.92				0.87	0.47	0.66	0.82	0.49	1.14	0.76	0.78	0.73	0.87	0.53	0.30		0.21		0.98
9/6/2023																								
9/7/2023						0.94	1.06		0.85	0.72	0.53			1.13	0.76									
9/8/2023																								
9/9/2023																								
9/10/2023																								
9/11/2023																								0.91
9/12/2023		0.47	0.76																			0.21		
9/13/2023									1.13	0.75	0.92	0.64	0.35	0.96	0.87									
9/14/2023								1.01													0.54			
9/15/2023																								
9/16/2023																								
9/17/2023																								
9/18/2023																								1.00
9/19/2023		0.49	0.36	0.42	0.76				0.79	0.52	0.59	0.82	0.41	1.11	0.65									
9/20/2023									0.74															
9/21/2023									0.81	0.54	0.58	0.70	0.37	1.04	0.64									
9/22/2023																								
9/23/2023																								
9/24/2023																								
9/25/2023																								1.01
9/26/2023																								
9/27/2023									0.79	0.44	0.53	0.83	0.26	0.96	0.62									
9/28/2023																								
9/29/2023																								
9/30/2023																								
Average	0.06	0.56				1.00			0.72							0.70					0.54	0.21		0.98
Min	0.06	0.34				0.94			0.26							0.30					0.54	0.21		0.91
Max	0.06	0.92				1.06			1.14							0.89					0.54	0.21		1.01



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. 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 Cl2)																								
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
9/1/2023																								
9/2/2023																								
9/3/2023																								
9/4/2023																								
9/5/2023											0.36									0.22	0.35	0.66	0.44	0.23
9/6/2023																								
9/7/2023		0.62				1.01	0.50		0.68				1.04	0.59		0.20		0.78						
9/8/2023			0.30																					
9/9/2023																								
9/10/2023																								
9/11/2023																								
9/12/2023			0.52	0.71	0.55					0.38											0.47	0.64	0.36	
9/13/2023																								
9/14/2023	0.30							0.63	0.45				0.99	0.63		0.46		0.49						
9/15/2023																								
9/16/2023																								
9/17/2023																								
9/18/2023																								
9/19/2023			0.23	0.52	0.28																			
9/20/2023													0.68	0.63										
9/21/2023																								
9/22/2023																								
9/23/2023																								
9/24/2023																								
9/25/2023																								
9/26/2023																								
9/27/2023			0.22	0.69	0.37																			
9/28/2023																								
9/29/2023																								
9/30/2023																								
Average	0.46		0.44			0.71			0.57		0.37		0.76			0.33		0.64		0.22		0.49		0.23
Min	0.30		0.22			0.50			0.45		0.36		0.59			0.20		0.49		0.22		0.35		0.23
Max	0.62		0.71			1.01			0.68		0.38		1.04			0.46		0.78		0.22		0.66		0.23

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. Speedway, 106 S. Huron Rd.
- 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

Name of Water Supply

**Bay Area Water Treatment Plant**

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

Bureau of Environmental Health

Water Supplier Bacteriological Analysis Report

September, 2023

COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.06	1	1	0	0
BAY	Bangor Township	0390	0.56	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	1.00	3	3	0	0
BAY	Bay City	0470	0.72	30	41	1	3
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.70	9	10	0	0
BAY	Beaver Road Area	0517	0.54	1	1	0	0
BAY	Beaver Township	0518	0.21	2	2	0	0
BAY	Essexville	2180	0.98	4	4	0	0
BAY	Fraser Township	2465	0.46	2	2	0	0
BAY	Hampton Township	2960	0.44	10	10	0	0
BAY	Kawkawlin Township	3565	0.71	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.57	2	2	0	0
BAY	Merritt Township	4280	0.37	2	2	0	0
BAY	Monitor Township	4440	0.76	6	6	0	0
BAY	City of Pinconning	5330	0.33	2	2	0	0
BAY	Pinconning Township	5335	0.64	2	2	0	0
BAY	Portsmouth Township	5540	0.22	1	1	0	0
BAY	Williams Township	7125	0.49	6	6	0	0
Tuscola	Wisner	7134	0.23	1	1	0	0

Average Free Cl2 Residual of All Distribution Sites

0.53 mg/L

- 1. Total distribution samples 109
- 2. Total distribution samples with detectable free cl2 residual 109
- 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%



-09/19/2023 sample #11, #1 Fire Station 1401 Center Ave. was Total Coliform pos, E.coli neg.

-9/20/23 site #11, #1 Fire Station 1401 Center Ave., Site 11a, (upstream) 813 N. Lincoln and Site 11b, (downstream) 701 N. Lincoln all tested tested Negative for Total Coliforms

-Free Chlorine for site #11 on 9/20 was .74mg/L, #11a was .71mg/L and site 11b was .67mg/L