

# Bay Area WTP

## Monthly Operations Report



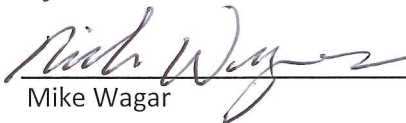
March, 2022

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

March, 2022  
 Month, Year

F-1  
 Water Plant Classification

Bay  
 County

Ryan Goebel  
 Operator-in-charge

F-1  
 Certification of Operator-in-charge

### Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	17.4	Millions of Gallons per Day
Treatment Rate, Maximum	7.8	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	17.29	PSI
Maximum Approved Flux Rate	36.25	gpd/sq.ft.
Maximum Operating Flux Rate	27.94	gpd/sq.ft.

### Chemical Data

Sodium Hypochlorite on hand:	4,670	Gallons	Estimated Supply:	63.0	days
Caustic Soda on hand:	2,747	Gallons	Estimated Supply:	188.1	days
Corrosion Inhibitor on hand:	1,133	Gallons	Estimated Supply:	50.7	days
Hydrofluosilicic Acid on hand:	598	Gallons	Estimated Supply:	31.0	days
Aluminum Chlorohydrate on hand:	511	Gallons	Estimated Supply:	52.9	days
Sulfuric Acid on hand:	508	Gallons	Estimated Supply:	254.0	days
Sodium Bisulfite on hand:	479	Gallons	Estimated Supply:	165.0	days
Citric Acid on hand:	1,657	Gallons	Estimated Supply:	132.6	days
Cost of All Chemicals per Million Gallons:	76.98	Dollars			
Estimated Electrical Cost per Million Gallons:	91.91	Dollars			
Estimated Natural Gas Cost per Million Gallons:	33.48	Dollars			

### Remarks

Number of periods of filter confluence turbidity samples > 0.3 NTU	0
Percent of membrane period confluence samples > 0.3 NTU:	0.00%
Was continuous (every 15 minutes) filter monitoring equipment off-line during the month? If yes, indicate date(s), duration, and individual filter grab sampling frequency on a separate sheet.	No
Did POE disinfectant residual fall below 0.2 ppm during the month? If yes, indicate date(s) and duration on a separate sheet.	No
Was minimum C*T credit achieved for the entire month? If no, indicate on a separate sheet the date(s) not achieved.	Yes
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.	No



### Notes

Filters 1,3,5 out at 7:30am on Monday the 7th for Raw bypass installation and back in on Wed the 9th.  
 Filter #7 out at 7:30am on Monday the 7th for Raw bypass installation and back in on Thurs the 10th.

# 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
3/1/2022	0.00	6.99	6.99	0.32	0.07	6.30	3.04	2.91	5.95
3/2/2022	0.00	8.64	8.64	0.46	0.14	7.75	3.95	3.76	7.72
3/3/2022	0.00	7.19	7.19	0.32	0.17	7.11	3.39	3.39	6.78
3/4/2022	0.00	7.30	7.30	0.39	0.23	7.63	3.68	3.65	7.33
3/5/2022	0.00	8.01	8.01	0.30	0.24	7.25	3.53	3.42	6.94
3/6/2022	0.00	8.02	8.02	0.33	0.24	7.85	3.77	3.68	7.45
3/7/2022	0.00	7.41	7.41	0.22	0.23	7.35	3.58	3.48	7.05
3/8/2022	0.00	7.60	7.60	0.21	0.12	6.98	3.50	3.47	6.97
3/9/2022	0.00	7.00	7.00	0.31	0.07	7.38	3.35	3.34	6.69
3/10/2022	0.00	6.85	6.85	0.41	0.07	6.85	3.31	3.29	6.60
3/11/2022	0.00	6.57	6.57	0.45	0.07	6.88	3.23	3.21	6.44
3/12/2022	0.00	6.63	6.63	0.46	0.07	6.96	3.35	3.34	6.69
3/13/2022	0.00	6.70	6.70	0.41	0.07	6.68	3.23	3.22	6.45
3/14/2022	0.00	7.41	7.41	0.48	0.07	6.97	3.35	3.33	6.68
3/15/2022	0.00	7.23	7.23	0.31	0.11	6.60	3.23	3.21	6.44
3/16/2022	0.00	6.74	6.74	0.53	0.10	7.30	3.40	3.37	6.76
3/17/2022	0.00	7.58	7.58	0.48	0.07	7.46	3.59	3.54	7.13
3/18/2022	0.00	6.74	6.74	0.42	0.07	6.75	3.30	3.24	6.54
3/19/2022	0.00	6.79	6.79	0.44	0.07	6.64	3.18	3.17	6.35
3/20/2022	0.00	7.06	7.06	0.44	0.07	7.10	3.38	3.38	6.77
3/21/2022	0.00	7.51	7.51	0.45	0.07	7.02	3.37	3.32	6.69
3/22/2022	0.00	6.84	6.84	0.41	0.08	6.90	3.35	3.22	6.57
3/23/2022	0.00	6.11	6.11	0.41	0.08	6.81	3.28	3.13	6.41
3/24/2022	0.00	6.80	6.80	0.46	0.08	6.99	3.43	3.25	6.69
3/25/2022	0.00	7.55	7.55	0.44	0.08	6.79	3.32	3.16	6.49
3/26/2022	0.00	7.01	7.01	0.39	0.15	6.88	3.33	3.24	6.57
3/27/2022	0.00	6.45	6.45	0.38	0.16	6.88	3.31	3.28	6.59
3/28/2022	0.00	6.76	6.76	0.41	0.10	6.83	3.32	3.21	6.54
3/29/2022	0.00	6.98	6.98	0.38	0.11	6.60	3.22	3.06	6.28
3/30/2022	0.00	7.00	7.00	0.45	0.07	6.81	3.34	3.20	6.54
3/31/2022	0.00	7.00	7.00	0.44	0.09	6.48	3.21	3.07	6.28
Total	0.00	220.47	220.47	12.30	3.45	216.76	104.82	102.54	207.36
Avg	0.00	7.11	7.11	0.40	0.11	6.99	3.38	3.31	6.69
Min	0.00	6.11	6.11	0.21	0.07	6.30	3.04	2.91	5.95
Max	0.00	8.64	8.64	0.53	0.24	7.85	3.95	3.76	7.72



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	
3/1/2022	2.9	8.11	0.43	1.60	0.08	0.34	Negative	Negative
3/2/2022	2.7	8.12	0.31	0.53	0.08	0.35	Negative	Negative
3/3/2022	2.7	8.12	0.33	1.19	0.09	0.32	Negative	Negative
3/4/2022	2.8	8.12	0.36	1.26	0.09	0.31	Negative	Negative
3/5/2022	2.8	8.13	0.29	0.65	0.10	0.30	Negative	Negative
3/6/2022	2.8	8.12	0.30	0.56	0.08	0.31	Negative	Negative
3/7/2022	3.0	8.12	0.57	2.25	0.08	0.32	Negative	Negative
3/8/2022	3.0	8.07	0.56	1.88	0.09	0.35	Negative	Negative
3/9/2022	3.0	8.03	0.34	1.51	0.08	0.33	Negative	Negative
3/10/2022	2.9	8.03	0.23	0.82	0.08	0.35	Negative	Negative
3/11/2022	3.7	8.01	0.16	2.58	0.09	0.36	Negative	Negative
3/12/2022	4.5	7.98	0.14	0.55	0.08	0.38	Negative	Negative
3/13/2022	4.6	7.99	0.14	0.22	0.09	0.38	Negative	Negative
3/14/2022	3.4	7.99	0.24	1.00	0.08	0.37	Negative	Negative
3/15/2022	2.5	7.99	0.32	0.45	0.08	0.36	Negative	Negative
3/16/2022	2.6	7.98	0.30	0.53	0.08	0.33	Negative	Negative
3/17/2022	3.0	7.97	0.27	0.52	0.10	0.35	Negative	Negative
3/18/2022	2.9	7.98	0.25	0.42	0.10	0.37	Negative	Negative
3/19/2022	2.8	7.99	0.27	0.46	0.10	0.35	Negative	Negative
3/20/2022	2.9	7.99	1.08	3.13	0.10	0.32	Negative	Negative
3/21/2022	3.4	7.98	0.63	2.52	0.07	0.34	Negative	Negative
3/22/2022	3.2	7.99	0.39	1.51	0.08	0.35	Negative	Negative
3/23/2022	2.8	8.00	0.29	0.37	0.10	0.36	Negative	Negative
3/24/2022	2.3	8.01	0.86	16.98	0.09	0.31	Negative	Negative
3/25/2022	2.5	8.00	2.98	5.94	0.08	0.21	Negative	Negative
3/26/2022	2.4	8.02	3.23	7.27	0.08	0.26	Negative	Negative
3/27/2022	2.4	8.02	1.67	4.64	0.08	0.38	Negative	Negative
3/28/2022	2.2	8.02	1.73	5.44	0.08	0.32	Negative	Negative
3/29/2022	2.1	8.03	1.40	12.25	0.08	0.29	Negative	Negative
3/30/2022	2.1	8.01	1.00	6.52	0.08	0.39	Negative	Negative
3/31/2022	2.2	8.00	0.81	1.51	0.08	0.33	Negative	Negative
Avg	2.9	8.03	0.71	2.81	0.09	0.34	NA	NA
Min	2.1	7.97	0.14	0.22	0.07	0.21	NA	NA
Max	4.6	8.13	3.23	16.98	0.10	0.39	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	Calculated	Calculated	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			Lab		
3/1/2022	2.1	7.57	3.39	0.76		1.01	0	79	10	8	74	13.9	244	-1.07	1.25	0.35	Negative	Negative
3/2/2022	2.1	7.57	3.39	0.76		1.02	0	80	9	9	82	14.0	239	-1.02	1.00	0.34	Negative	Negative
3/3/2022	2.0	7.58	3.39	0.78		1.03	0	80	9	9	76	15.9	247	-1.05	1.00	0.34	Negative	Negative
3/4/2022	2.0	7.57	3.41	0.83		1.03	0	82	10	8	80	12.5	244	-1.02	1.25	0.34	Negative	Negative
3/5/2022	1.9	7.58	3.42	0.80		1.01	0	82	10	11	76	12.9	249	-1.04	0.91	0.38	Negative	Negative
3/6/2022	2.1	7.59	3.39	0.79		1.01	0	82	10	11	70	12.9	250	-1.06	0.91	0.38	Negative	Negative
3/7/2022	1.7	7.58	3.41	0.77	0.80	1.02	0	82	12	11	78	13.9	232	-1.03	1.09	0.43	Negative	Negative
3/8/2022	1.5	7.67	3.40	0.77		1.03	0	82	10	13	72	13.5	233	-0.98	0.77	0.41	Negative	Negative
3/9/2022	1.5	7.76	3.39	0.80		1.04	0	81	10	11	79	13.2	241	-0.86	0.91	0.39	Negative	Negative
3/10/2022	1.6	7.74	3.36	0.78		1.03	0	79	10	9	74	14.2	239	-0.91	1.11	0.37	Negative	Negative
3/11/2022	1.5	7.74	3.30	0.75		1.02	0	80	10	8	74	13.6	245	-0.91	1.25	0.34	Negative	Negative
3/12/2022	1.6	7.75	3.35	0.75		1.03	0	79	10	8	76	14.2	241	-0.90	1.25	0.35	Negative	Negative
3/13/2022	1.4	7.75	3.35	0.76		1.03	0	80	10	8	72	14.0	242	-0.92	1.25	0.34	Negative	Negative
3/14/2022	1.7	7.75	3.30	0.76	0.75	1.02	0	80	10	9	76	13.7	239	-0.89	1.11	0.36	Negative	Negative
3/15/2022	2.1	7.76	3.34	0.76		1.01	0	79	9	10	74	14.0	243	-0.89	0.90	0.36	Negative	Negative
3/16/2022	2.1	7.74	3.33	0.76		1.02	0	85	10	9	80	13.1	237	-0.83	1.11	0.34	Negative	Negative
3/17/2022	2.3	7.74	3.34	0.77		1.02	0	82	10	10	72	12.6	252	-0.89	1.00	0.37	Negative	Negative
3/18/2022	2.4	7.75	3.40	0.78		1.03	0	82	10	9	80	12.9	249	-0.83	1.11	0.35	Negative	Negative
3/19/2022	2.4	7.75	3.41	0.80		1.03	0	80	10	9	76	13.2	248	-0.86	1.11	0.36	Negative	Negative
3/20/2022	2.5	7.75	3.41	0.80		1.02	0	82	10	9	74	13.4	248	-0.87	1.11	0.35	Negative	Negative
3/21/2022	2.1	7.74	3.41	0.76	0.70	1.01	0	82	10	10	80	13.6	247	-0.85	1.00	0.37	Negative	Negative
3/22/2022	2.0	7.74	3.43	0.76		1.01	0	80	9	11	80	13.2	246	-0.86	0.82	0.37	Negative	Negative
3/23/2022	1.9	7.75	3.43	0.81		1.01	0	82	10	11	72	14.8	236	-0.89	0.91	0.38	Negative	Negative
3/24/2022	2.0	7.74	3.42	0.81		1.01	0	80	9	12	74	14.2	242	-0.90	0.75	0.39	Negative	Negative
3/25/2022	2.1	7.74	3.41	0.77		0.99	0	80	10	10	76	14.2	244	-0.89	1.00	0.38	Negative	Negative
3/26/2022	2.2	7.74	3.41	0.77		0.99	0	81	11	10	76	14.0	247	-0.88	1.10	0.39	Negative	Negative
3/27/2022	2.1	7.77	3.41	0.76		1.02	0	83	10	9	76	14.0	248	-0.84	1.11	0.35	Negative	Negative
3/28/2022	2.1	7.77	3.38	0.77	0.76	1.02	0	84	10	9	76	13.4	251	-0.84	1.11	0.34	Negative	Negative
3/29/2022	2.1	7.76	3.41	0.77		1.01	0	86	10	8	78	14.3	247	-0.82	1.25	0.32	Negative	Negative
3/30/2022	2.1	7.76	3.39	0.79		1.01	0	85	10	8	84	14.1	239	-0.80	1.25	0.32	Negative	Negative
3/31/2022	2.2	7.75	3.36	0.77		1.04	0	84	9	11	74	11.5	252	-0.87	0.82	0.35	Negative	Negative
Avg	2.0	7.71	3.38	0.78	0.75	1.02	0	81	10	10	76	13.6	244	-0.91	1.05	0.36	NA	NA
Min	1.4	7.57	3.30	0.75	0.70	0.99	0	79	9	8	70	11.5	232	-1.07	0.75	0.32	NA	NA
Max	2.5	7.77	3.43	0.83	0.80	1.04	0	86	12	13	84	15.9	252	-0.80	1.25	0.43	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
3/1/2022	0.43	1.60	2.45	0.62	0.024	0.025	96	0	0.0	0.020
3/2/2022	0.31	0.53	2.34	0.59	0.024	0.024	96	0	0.0	0.019
3/3/2022	0.33	1.19	2.56	0.46	0.024	0.024	96	0	0.0	0.019
3/4/2022	0.36	1.26	1.86	0.45	0.024	0.024	96	0	0.0	0.019
3/5/2022	0.29	0.65	1.50	0.33	0.024	0.027	96	0	0.0	0.019
3/6/2022	0.30	0.56	2.89	0.41	0.024	0.024	96	0	0.0	0.019
3/7/2022	0.57	2.25	1.66	0.50	0.024	0.024	96	0	0.0	0.019
3/8/2022	0.56	1.88	1.04	0.28	0.024	0.024	96	0	0.0	0.019
3/9/2022	0.34	1.51	1.71	0.25	0.024	0.024	96	0	0.0	0.019
3/10/2022	0.23	0.82	1.35	0.25	0.024	0.024	96	0	0.0	0.019
3/11/2022	0.16	2.58	1.10	0.27	0.024	0.024	96	0	0.0	0.019
3/12/2022	0.14	0.55	1.11	0.27	0.024	0.024	96	0	0.0	0.020
3/13/2022	0.14	0.22	1.15	0.31	0.024	0.024	96	0	0.0	0.019
3/14/2022	0.24	1.00	1.21	0.30	0.024	0.024	96	0	0.0	0.019
3/15/2022	0.32	0.45	1.02	0.28	0.024	0.024	96	0	0.0	0.019
3/16/2022	0.30	0.53	1.19	0.26	0.024	0.024	96	0	0.0	0.019
3/17/2022	0.27	0.52	1.26	0.28	0.024	0.024	96	0	0.0	0.019
3/18/2022	0.25	0.42	1.26	0.24	0.024	0.024	96	0	0.0	0.019
3/19/2022	0.27	0.46	1.57	0.28	0.024	0.024	96	0	0.0	0.019
3/20/2022	1.08	3.13	1.81	0.59	0.024	0.024	96	0	0.0	0.019
3/21/2022	0.63	2.52	4.97	0.77	0.024	0.024	96	0	0.0	0.019
3/22/2022	0.39	1.51	15.92	0.97	0.024	0.024	96	0	0.0	0.019
3/23/2022	0.29	0.37	16.15	0.38	0.024	0.024	96	0	0.0	0.019
3/24/2022	0.86	16.98	15.72	0.61	0.024	0.025	96	0	0.0	0.019
3/25/2022	2.98	5.94	14.57	1.61	0.024	0.025	96	0	0.0	0.019
3/26/2022	3.23	7.27	2.46	2.44	0.024	0.024	96	0	0.0	0.019
3/27/2022	1.67	4.64	2.60	2.29	0.024	0.024	96	0	0.0	0.019
3/28/2022	1.73	5.44	20.44	1.91	0.024	0.025	96	0	0.0	0.019
3/29/2022	1.40	12.25	7.99	1.72	0.024	0.025	96	0	0.0	0.019
3/30/2022	1.00	6.52	2.52	1.49	0.024	0.025	96	0	0.0	0.019
3/31/2022	0.81	1.51	3.25	1.12	0.024	0.025	96	0	0.0	0.019
Avg	0.71	2.81	4.47	0.73	0.024	0.024	96	0	0.0	0.019
Min	0.14	0.22	1.02	0.24	0.024	0.024	96	0	0.0	0.019
Max	3.23	16.98	20.44	2.44	0.024	0.027	96	0	0.0	0.020

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
3/1/2022	4.45	PASS	0.021	4.14	PASS	0.022	4.41	PASS	0.019	4.47	PASS	0.016	4.33	PASS	0.022	4.39	PASS	0.019	4.34	PASS	0.027	4.19	PASS	0.020		
3/2/2022	4.51	PASS	0.020	4.12	PASS	0.026	4.35	PASS	0.020	4.49	PASS	0.016	4.33	PASS	0.020	4.41	PASS	0.019	4.32	PASS	0.027	4.20	PASS	0.044		
3/3/2022	4.43	PASS	0.020	4.14	PASS	0.023	4.36	PASS	0.019	4.48	PASS	0.016	4.44	PASS	0.021	4.39	PASS	0.018	4.35	PASS	0.027	4.18	PASS	0.021		
3/4/2022	4.41	PASS	0.021	4.15	PASS	0.025	4.32	PASS	0.020	4.62	PASS	0.016	4.46	PASS	0.020	4.40	PASS	0.018	4.47	PASS	0.027	4.17	PASS	0.022		
3/5/2022	4.41	PASS	0.019	4.16	PASS	0.025	4.30	PASS	0.019	4.86	PASS	0.016	4.42	PASS	0.020	4.39	PASS	0.018	4.42	PASS	0.027	4.40	PASS	0.018		
3/6/2022	4.46	PASS	0.019	4.15	PASS	0.023	4.29	PASS	0.019	4.70	PASS	0.016	4.38	PASS	0.020	4.68	PASS	0.018	4.45	PASS	0.027	4.47	PASS	0.022		
3/7/2022	4.48	PASS	0.019	4.10	PASS	0.023	4.30	PASS	0.019	4.50	PASS	0.016	4.35	PASS	0.020	4.53	PASS	0.019	4.49	PASS	0.027	4.26	PASS	0.021		
3/8/2022	out 3/7, back in on 3/9			4.08	PASS	0.023	out 3/7, back in on 3/9			4.34	PASS	0.016	out 3/7, back in on 3/9			4.35	PASS	0.019	out on 3/7			4.17	PASS	0.018		
3/9/2022	4.49	PASS	0.019	4.09	PASS	0.023	4.37	PASS	0.019	4.32	PASS	0.016	4.50	PASS	0.022	4.32	PASS	0.018	back in on 3/10			4.14	PASS	0.018		
3/10/2022	4.49	PASS	0.019	4.15	PASS	0.032	4.42	PASS	0.025	4.38	PASS	0.018	4.50	PASS	0.021	4.38	PASS	0.020	4.66	PASS	0.029	4.20	PASS	0.020		
3/11/2022	4.46	PASS	0.019	4.17	PASS	0.025	4.52	PASS	0.020	4.48	PASS	0.016	4.46	PASS	0.022	4.43	PASS	0.020	4.54	PASS	0.028	4.20	PASS	0.018		
3/12/2022	4.48	PASS	0.019	4.14	PASS	0.025	4.49	PASS	0.020	4.56	PASS	0.018	4.42	PASS	0.025	4.46	PASS	0.022	4.45	PASS	0.027	4.21	PASS	0.019		
3/13/2022	4.49	PASS	0.019	4.16	PASS	0.025	4.46	PASS	0.020	4.64	PASS	0.017	4.42	PASS	0.022	4.43	PASS	0.020	4.47	PASS	0.027	4.25	PASS	0.021		
3/14/2022	4.43	PASS	0.019	4.11	PASS	0.025	4.43	PASS	0.021	4.57	PASS	0.018	4.38	PASS	0.021	4.39	PASS	0.022	4.40	PASS	0.027	4.19	PASS	0.020		
3/15/2022	4.46	PASS	0.018	4.16	PASS	0.025	4.33	PASS	0.019	4.64	PASS	0.016	4.43	PASS	0.021	4.47	PASS	0.021	4.42	PASS	0.028	4.30	PASS	0.019		
3/16/2022	4.48	PASS	0.018	4.17	PASS	0.024	4.39	PASS	0.022	4.61	PASS	0.016	4.44	PASS	0.022	4.47	PASS	0.020	4.41	PASS	0.028	4.27	PASS	0.018		
3/17/2022	4.47	PASS	0.018	4.17	PASS	0.024	4.39	PASS	0.020	4.65	PASS	0.016	4.46	PASS	0.021	4.50	PASS	0.020	4.46	PASS	0.028	4.35	PASS	0.019		
3/18/2022	4.45	PASS	0.018	4.13	PASS	0.024	4.35	PASS	0.020	4.81	PASS	0.016	4.39	PASS	0.022	4.57	PASS	0.020	4.43	PASS	0.027	4.33	PASS	0.018		
3/19/2022	4.44	PASS	0.018	4.13	PASS	0.024	4.38	PASS	0.020	4.82	PASS	0.016	4.44	PASS	0.021	4.53	PASS	0.020	4.44	PASS	0.027	4.34	PASS	0.018		
3/20/2022	4.44	PASS	0.018	4.10	PASS	0.025	4.37	PASS	0.020	4.65	PASS	0.018	4.41	PASS	0.021	4.54	PASS	0.020	4.45	PASS	0.027	4.24	PASS	0.019		
3/21/2022	4.42	PASS	0.018	4.13	PASS	0.024	4.35	PASS	0.019	4.68	PASS	0.016	4.38	PASS	0.021	4.52	PASS	0.020	4.50	PASS	0.027	4.36	PASS	0.018		
3/22/2022	4.36	PASS	0.018	4.18	PASS	0.024	4.25	PASS	0.019	4.64	PASS	0.016	4.35	PASS	0.021	4.56	PASS	0.020	4.36	PASS	0.028	4.33	PASS	0.019		
3/23/2022	4.44	PASS	0.018	4.15	PASS	0.023	4.32	PASS	0.019	4.56	PASS	0.016	4.33	PASS	0.021	4.49	PASS	0.020	4.34	PASS	0.027	4.19	PASS	0.021		
3/24/2022	4.40	PASS	0.018	4.11	PASS	0.024	4.28	PASS	0.019	4.56	PASS	0.016	4.36	PASS	0.021	4.41	PASS	0.020	4.43	PASS	0.028	4.18	PASS	0.018		
3/25/2022	4.35	PASS	0.018	4.13	PASS	0.023	4.26	PASS	0.020	4.53	PASS	0.016	4.38	PASS	0.022	4.42	PASS	0.020	4.46	PASS	0.028	4.18	PASS	0.018		
3/26/2022	4.37	PASS	0.018	4.18	PASS	0.023	4.33	PASS	0.020	4.52	PASS	0.107	4.38	PASS	0.021	4.47	PASS	0.020	4.38	PASS	0.028	4.20	PASS	0.018		
3/27/2022	4.40	PASS	0.018	4.15	PASS	0.024	4.35	PASS	0.019	4.51	PASS	0.016	4.39	PASS	0.021	4.43	PASS	0.020	4.41	PASS	0.028	4.20	PASS	0.018		
3/28/2022	4.43	PASS	0.018	4.13	PASS	0.023	4.36	PASS	0.020	4.53	PASS	0.016	4.40	PASS	0.021	4.39	PASS	0.021	4.44	PASS	0.028	4.24	PASS	0.018		
3/29/2022	4.41	PASS	0.015	4.15	PASS	0.026	4.42	PASS	0.020	4.56	PASS	0.016	4.38	PASS	0.021	4.47	PASS	0.021	4.47	PASS	0.028	4.25	PASS	0.018		
3/30/2022	4.43	PASS	0.017	4.20	PASS	0.025	4.39	PASS	0.019	4.55	PASS	0.016	4.40	PASS	0.021	4.51	PASS	0.020	4.44	PASS	0.028	4.30	PASS	0.023		
3/31/2022	4.54	PASS	0.017	4.16	PASS	0.024	4.50	PASS	0.019	4.57	PASS	0.016	4.40	PASS	0.021	4.48	PASS	0.020	4.47	PASS	0.027	4.22	PASS	0.019		
Avg	4.44		0.019	4.14		0.024	4.37		0.020	4.57		0.019	4.40		0.021	4.46		0.024	4.44		0.028	4.25		0.020		
Min	4.35		0.015	4.08		0.022	4.25		0.019	4.32		0.016	4.33		0.020	4.32		0.018	4.32		0.027	4.14		0.018		
Max	4.54		0.021	4.20		0.032	4.52		0.025	4.86		0.107	4.50		0.025	4.68		0.140	4.66		0.029	4.47		0.044		



\*LRV not to exceed 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 <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
3/1/2022	6.3	0.34	0.25	1.00	1.07	1.01	3.34	3.39	0.08	0.65	0.76
3/2/2022	7.7	0.35	0.28	1.04	1.06	1.02	3.34	3.39	0.08	0.65	0.76
3/3/2022	7.1	0.32	0.27	1.04	1.07	1.03	3.34	3.39	0.09	0.65	0.78
3/4/2022	7.6	0.31	0.26	1.04	1.06	1.03	3.34	3.41	0.09	0.65	0.83
3/5/2022	7.3	0.30	0.25	1.05	1.05	1.01	3.34	3.42	0.10	0.65	0.80
3/6/2022	7.8	0.31	0.24	1.06	1.06	1.01	3.33	3.39	0.08	0.65	0.79
3/7/2022	7.4	0.32	0.25	1.07	1.07	1.02	3.33	3.41	0.08	0.65	0.77
3/8/2022	7.0	0.35	0.26	1.07	1.07	1.03	3.33	3.40	0.09	0.65	0.77
3/9/2022	7.4	0.33	0.27	1.06	1.08	1.04	3.33	3.39	0.08	0.65	0.80
3/10/2022	6.9	0.35	0.27	1.03	1.06	1.03	3.28	3.36	0.08	0.64	0.78
3/11/2022	6.9	0.36	0.29	1.03	1.06	1.02	3.32	3.30	0.09	0.63	0.75
3/12/2022	7.0	0.38	0.30	1.00	1.07	1.03	3.33	3.35	0.08	0.63	0.75
3/13/2022	6.7	0.38	0.31	1.00	1.07	1.03	3.33	3.35	0.09	0.63	0.76
3/14/2022	7.0	0.37	0.31	0.98	1.05	1.02	3.33	3.30	0.08	0.63	0.76
3/15/2022	6.6	0.36	0.30	1.00	1.05	1.01	3.33	3.34	0.08	0.63	0.76
3/16/2022	7.3	0.33	0.29	1.00	1.05	1.02	3.34	3.33	0.08	0.63	0.76
3/17/2022	7.5	0.35	0.28	1.03	1.07	1.02	3.37	3.34	0.10	0.63	0.77
3/18/2022	6.7	0.37	0.30	1.03	1.07	1.03	3.36	3.40	0.10	0.63	0.78
3/19/2022	6.6	0.35	0.29	1.03	1.06	1.03	3.33	3.41	0.10	0.63	0.80
3/20/2022	7.1	0.32	0.28	1.04	1.06	1.02	3.34	3.41	0.10	0.63	0.80
3/21/2022	7.0	0.34	0.27	1.04	1.05	1.01	3.34	3.41	0.07	0.63	0.76
3/22/2022	6.9	0.35	0.27	1.05	1.05	1.01	3.34	3.43	0.08	0.63	0.76
3/23/2022	6.8	0.36	0.29	1.05	1.06	1.01	3.34	3.43	0.10	0.63	0.81
3/24/2022	7.0	0.31	0.27	1.05	1.05	1.01	3.34	3.42	0.09	0.63	0.81
3/25/2022	6.8	0.21	0.22	1.15	1.03	0.99	3.34	3.41	0.08	0.63	0.77
3/26/2022	6.9	0.26	0.18	1.20	1.06	0.99	3.34	3.41	0.08	0.63	0.77
3/27/2022	6.9	0.38	0.22	1.12	1.08	1.02	3.34	3.41	0.08	0.63	0.76
3/28/2022	6.8	0.32	0.25	1.14	1.07	1.02	3.34	3.38	0.08	0.63	0.77
3/29/2022	6.6	0.29	0.22	1.16	1.06	1.01	3.34	3.41	0.08	0.63	0.77
3/30/2022	6.8	0.39	0.25	1.14	1.08	1.01	3.34	3.39	0.08	0.63	0.79
3/31/2022	6.5	0.33	0.27	1.10	1.08	1.04	3.34	3.36	0.08	0.63	0.77
Avg	7.0	0.34	0.27	1.06	1.06	1.02	3.34	3.38	0.09	0.64	0.78
Min	6.3	0.21	0.18	0.98	1.03	0.99	3.28	3.30	0.07	0.63	0.75
Max	7.8	0.39	0.31	1.20	1.08	1.04	3.37	3.43	0.10	0.65	0.83





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
3/1/2022	41.6	3,006	0.34	1031	28.1	13.4	6.0	478	0.98	468	1498	2.9	12.00	Y
3/2/2022	43.3	2,888	0.35	1000	28.7	24.3	7.7	471	0.96	454	1454	2.7	12.00	Y
3/3/2022	42.2	2,965	0.32	963	28.7	23.8	6.8	530	1.01	537	1500	2.7	12.00	Y
3/4/2022	43.2	2,894	0.31	894	28.7	24.0	7.3	493	0.99	489	1384	2.8	12.00	Y
3/5/2022	53.5	2,340	0.30	708	28.7	23.6	6.9	517	0.99	513	1221	2.8	12.00	Y
3/6/2022	52.1	2,402	0.31	744	28.7	23.7	7.5	481	0.96	464	1209	2.8	12.00	Y
3/7/2022	40.3	3,105	0.32	995	28.7	25.2	7.1	523	1.00	523	1517	3.0	12.00	Y
3/8/2022	40.5	3,090	0.35	1075	28.7	18.9	7.0	468	1.01	471	1546	3.0	12.00	Y
3/9/2022	38.1	3,286	0.33	1097	28.7	14.3	6.7	440	1.01	446	1543	3.0	12.00	Y
3/10/2022	39.8	3,140	0.35	1108	28.7	24.2	6.6	550	0.99	545	1654	2.9	12.00	Y
3/11/2022	43.9	2,848	0.36	1039	28.7	25.4	6.4	575	1.00	575	1614	3.7	12.00	Y
3/12/2022	54.3	2,306	0.38	880	28.7	25.5	6.7	555	1.01	559	1439	4.5	12.00	Y
3/13/2022	53.7	2,329	0.38	891	28.7	24.9	6.4	569	1.00	569	1460	4.6	12.00	Y
3/14/2022	54.1	2,313	0.37	861	28.3	25.1	6.7	547	0.99	543	1404	3.4	12.00	Y
3/15/2022	45.0	2,780	0.36	991	28.7	21.7	6.4	537	0.98	525	1516	2.5	12.00	Y
3/16/2022	41.5	3,015	0.33	994	28.7	21.7	6.8	511	0.99	507	1501	2.6	12.00	Y
3/17/2022	40.7	3,075	0.35	1076	28.7	25.0	7.1	516	0.99	512	1589	3.0	12.00	Y
3/18/2022	40.8	3,066	0.37	1140	28.2	20.9	6.5	515	1.01	518	1658	2.9	12.00	Y
3/19/2022	50.8	2,460	0.35	863	28.7	23.0	6.3	558	0.99	553	1416	2.8	12.00	Y
3/20/2022	51.1	2,446	0.32	783	28.7	23.8	6.8	531	1.01	534	1317	2.9	12.00	Y
3/21/2022	50.5	2,475	0.34	848	28.7	23.1	6.7	530	0.99	522	1370	3.4	12.00	Y
3/22/2022	42.3	2,956	0.35	1024	28.7	24.4	6.6	554	0.99	546	1570	3.2	12.00	Y
3/23/2022	37.3	3,349	0.36	1213	28.7	24.7	6.4	572	1.00	571	1784	2.8	12.00	Y
3/24/2022	40.1	3,118	0.31	968	28.7	24.8	6.7	548	1.00	548	1516	2.3	12.00	Y
3/25/2022	48.1	2,602	0.21	548	28.7	25.2	6.5	569	0.96	549	1097	2.5	12.00	Y
3/26/2022	52.0	2,406	0.26	623	28.7	25.3	6.6	563	0.96	539	1162	2.4	12.00	Y
3/27/2022	52.4	2,389	0.38	902	28.7	25.2	6.6	561	0.99	556	1458	2.4	12.00	Y
3/28/2022	47.2	2,652	0.32	860	28.7	25.1	6.5	564	1.01	568	1428	2.2	12.00	Y
3/29/2022	40.5	3,088	0.29	881	28.7	25.1	6.3	587	0.98	574	1456	2.1	12.00	Y
3/30/2022	40.0	3,127	0.39	1221	28.7	25.2	6.5	564	0.99	555	1776	2.1	12.00	Y
3/31/2022	40.3	3,104	0.33	1026	28.7	23.5	6.3	570	1.01	573	1599	2.2	12.00	Y
Avg	45.2	2,807	0.34	944	28.6	23.4	6.7	534	0.99	529	1473	2.9	12.00	NA
Min	37.3	2,306	0.21	548	28.1	13.4	6.0	440	0.96	446	1097	2.1	12.00	NA
Max	54.3	3,349	0.39	1221	28.7	25.5	7.7	587	1.01	575	1784	4.6	12.00	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
Date	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City							Bay County					Beaver Rd	Beaver Twp		Essexville
	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32
3/1/2022	0.42	0.67	0.64	0.63	0.98				0.80	0.66	0.75	0.77	0.58	0.98	0.91	0.86	0.84	0.79	0.84	0.72			0.53	
3/2/2022						0.62	0.92																	
3/3/2022																								
3/4/2022																								
3/5/2022																								
3/6/2022																								
3/7/2022				0.60	0.99											0.87	0.73	0.94	0.81	0.73		0.56	0.95	
3/8/2022									0.89	0.62	0.80		0.56	1.01	0.86									
3/9/2022																								
3/10/2022									0.81	0.61	0.77	0.81	0.48	1.01	0.78						0.96			
3/11/2022																								
3/12/2022																								
3/13/2022																								
3/14/2022																								
3/15/2022		0.82	0.64	0.74	0.95			0.99																1.00
3/16/2022									0.86	0.47	0.65	0.81	0.58	0.97	0.75									
3/17/2022																								
3/18/2022																								
3/19/2022																								
3/20/2022																								
3/21/2022																								1.01
3/22/2022									0.89	0.54	0.65	0.75	0.55	0.94	0.72									
3/23/2022																								
3/24/2022									0.84	0.58	0.67	0.73	0.51	0.97	0.78									
3/25/2022																								
3/26/2022																								
3/27/2022																								
3/28/2022																								1.02
3/29/2022																								
3/30/2022									0.86	0.55	0.63	0.82	0.51	0.90	0.78									
3/31/2022																								
Average	0.42			0.77				0.84					0.74						0.81		0.96		0.55	1.00
Min	0.42			0.60				0.62					0.47					0.72		0.96		0.53	0.95	
Max	0.42			0.99				0.99					1.01					0.94		0.96		0.56	1.02	



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 <sub>2</sub> )																								
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
3/1/2022			0.71	0.83	0.69						0.64									0.32	0.72	0.76	0.63	0.61
3/2/2022																								
3/3/2022	0.51	0.66				0.98	0.58		0.65				0.96	0.74	0.72	0.52		0.82	0.62					
3/4/2022																								
3/5/2022																								
3/6/2022																								
3/7/2022																								
3/8/2022			0.76	0.86	0.68						0.68										0.78	0.79	0.68	
3/9/2022																								
3/10/2022								0.91	0.93							0.58								
3/11/2022																								
3/12/2022																								
3/13/2022																								
3/14/2022																								
3/15/2022													0.90	0.79	0.81									
3/16/2022																								
3/17/2022																								
3/18/2022			0.56	0.62	0.61																			
3/19/2022																								
3/20/2022																								
3/21/2022																								
3/22/2022																								
3/23/2022			0.72																					
3/24/2022																								
3/25/2022																								
3/26/2022																								
3/27/2022																								
3/28/2022																								
3/29/2022																								
3/30/2022																								
3/31/2022																								
Average	0.59		0.70			0.82			0.79		0.66		0.82			0.55		0.72		0.32		0.73		0.61
Min	0.51		0.56			0.58			0.65		0.64		0.72			0.52		0.62		0.32		0.63		0.61
Max	0.66		0.86			0.98			0.93		0.68		0.96			0.58		0.82		0.32		0.79		0.61



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			
				March, 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	0.42	1	1	0	0
BAY	Bangor Township	0390	0.77	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.84	3	3	0	0
BAY	Bay City	0470	0.74	30	48	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.81	9	10	0	0
BAY	Beaver Road Area	0517	0.96	1	1	0	0
BAY	Beaver Township	0518	0.55	2	2	0	0
BAY	Essexville	2180	1.00	4	4	0	0
BAY	Fraser Township	2465	0.59	2	2	0	0
BAY	Hampton Township	2960	0.70	10	10	0	0
BAY	Kawkawlin Township	3565	0.82	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.79	2	2	0	0
BAY	Merritt Township	4280	0.66	2	2	0	0
BAY	Monitor Township	4440	0.82	6	6	0	0
BAY	City of Pinconning	5330	0.55	2	2	0	0
BAY	Pinconning Township	5335	0.72	2	2	0	0
BAY	Portsmouth Township	5540	0.32	1	1	0	0
BAY	Williams Township	7125	0.73	6	6	0	0
Tuscola	Wisner	7134	0.61	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.71	mg/L			
1. Total distribution samples					116		
2. Total distribution samples with detectable free cl2 residual					116		
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%		

