

# Bay Area WTP

## Monthly Operations Report



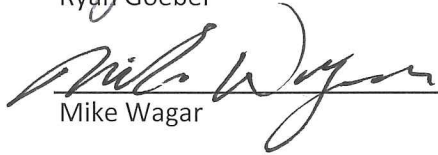
January, 2022

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

January, 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	7.7	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	17.98	PSI
Maximum Approved Flux Rate	36.25	gpd/sq.ft.
Maximum Operating Flux Rate	27.05	gpd/sq.ft.

### Chemical Data

Sodium Hypochlorite on hand:	8,316	Gallons	Estimated Supply:	118.2	days
Caustic Soda on hand:	3,631	Gallons	Estimated Supply:	158.2	days
Corrosion Inhibitor on hand:	552	Gallons	Estimated Supply:	24.6	days
Hydrofluosilicic Acid on hand:	1,837	Gallons	Estimated Supply:	92.9	days
Aluminum Chlorohydrate on hand:	910	Gallons	Estimated Supply:	101.4	days
Sulfuric Acid on hand:	590	Gallons	Estimated Supply:	177.8	days
Sodium Bisulfite on hand:	628	Gallons	Estimated Supply:	63.0	days
Citric Acid on hand:	2,331	Gallons	Estimated Supply:	117.1	days
Cost of All Chemicals per Million Gallons:	87.48	Dollars			
Estimated Electrical Cost per Million Gallons:	93.19	Dollars			
Estimated Natural Gas Cost per Million Gallons:	35.05	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 #2 and 3# had pinning maint done this month.

# 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
1/1/2022	0.00	6.82	6.82	0.26	0.08	6.70	3.27	3.13	6.40
1/2/2022	0.00	6.76	6.76	0.29	0.08	6.78	3.20	3.19	6.38
1/3/2022	0.00	7.34	7.34	0.26	0.08	6.76	3.30	3.24	6.54
1/4/2022	0.00	6.98	6.98	0.25	0.08	6.62	3.29	3.15	6.44
1/5/2022	0.00	6.55	6.55	0.30	0.08	6.93	3.29	3.26	6.55
1/6/2022	0.00	6.57	6.57	0.27	0.16	6.61	3.16	3.10	6.26
1/7/2022	0.00	6.57	6.57	0.27	0.10	6.76	3.26	3.22	6.48
1/8/2022	0.00	7.30	7.30	0.24	0.08	7.10	3.44	3.29	6.73
1/9/2022	0.00	7.35	7.35	0.29	0.08	7.19	3.46	3.39	6.85
1/10/2022	0.00	6.84	6.84	0.26	0.08	6.93	3.35	3.32	6.67
1/11/2022	0.00	7.22	7.22	0.27	0.08	7.00	3.34	3.36	6.70
1/12/2022	0.00	7.23	7.23	0.30	0.08	7.53	3.58	3.50	7.08
1/13/2022	0.00	6.78	6.78	0.28	0.07	6.80	3.40	3.27	6.67
1/14/2022	0.00	7.15	7.15	0.28	0.07	7.09	3.36	3.32	6.68
1/15/2022	0.00	7.45	7.45	0.28	0.07	6.90	3.27	3.26	6.52
1/16/2022	0.00	6.90	6.90	0.29	0.07	7.02	3.41	3.34	6.75
1/17/2022	0.00	6.80	6.80	0.30	0.07	7.23	3.42	3.41	6.84
1/18/2022	0.00	7.20	7.20	0.32	0.07	7.23	3.53	3.50	7.03
1/19/2022	0.00	7.71	7.71	0.29	0.10	7.34	3.50	3.47	6.98
1/20/2022	0.00	7.50	7.50	0.32	0.08	7.42	3.55	3.58	7.13
1/21/2022	0.00	7.25	7.25	0.27	0.08	6.90	3.32	3.35	6.67
1/22/2022	0.00	7.03	7.03	0.32	0.08	7.47	3.53	3.56	7.09
1/23/2022	0.00	7.39	7.39	0.28	0.08	7.40	3.54	3.59	7.13
1/24/2022	0.00	7.71	7.71	0.30	0.08	7.42	3.55	3.56	7.11
1/25/2022	0.00	7.63	7.63	0.30	0.07	7.06	3.34	3.33	6.68
1/26/2022	0.00	6.75	6.75	0.31	0.07	7.69	3.74	3.61	7.35
1/27/2022	0.00	7.08	7.08	0.30	0.07	7.12	3.58	3.38	6.96
1/28/2022	0.00	7.23	7.23	0.32	0.07	7.27	3.49	3.47	6.97
1/29/2022	0.00	7.48	7.48	0.33	0.07	7.37	3.50	3.39	6.89
1/30/2022	0.00	7.36	7.36	0.33	0.07	7.15	3.53	3.49	7.02
1/31/2022	0.00	7.43	7.43	0.37	0.07	7.50	3.54	3.40	6.94
Total	0.00	221.36	221.36	9.05	2.49	220.30	106.03	104.43	210.46
Avg	0.00	7.14	7.14	0.29	0.08	7.11	3.42	3.37	6.79
Min	0.00	6.55	6.55	0.24	0.07	6.61	3.16	3.10	6.26
Max	0.00	7.71	7.71	0.37	0.16	7.69	3.74	3.61	7.35



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	
1/1/2022	6.4	7.77	0.64	0.98	0.08	0.50	Negative	Negative
1/2/2022	6.4	7.77	0.67	1.69	0.08	0.49	Negative	Negative
1/3/2022	6.3	7.78	2.14	5.20	0.08	0.42	Negative	Negative
1/4/2022	6.2	7.77	2.12	4.61	0.08	0.43	Negative	Negative
1/5/2022	5.9	7.76	0.89	1.45	0.08	0.48	Negative	Negative
1/6/2022	5.9	7.59	0.69	1.67	0.08	0.48	Negative	Negative
1/7/2022	5.9	7.47	0.95	3.35	0.10	0.45	Negative	Negative
1/8/2022	5.9	7.42	0.60	1.70	0.10	0.49	Negative	Negative
1/9/2022	5.7	7.42	0.72	2.85	0.09	0.52	Negative	Negative
1/10/2022	5.3	7.44	0.59	2.35	0.09	0.52	Negative	Negative
1/11/2022	5.4	7.48	0.46	1.99	0.09	0.51	Negative	Negative
1/12/2022	5.0	7.55	0.39	1.15	0.08	0.45	Negative	Negative
1/13/2022	4.9	7.60	0.41	0.59	0.08	0.43	Negative	Negative
1/14/2022	4.6	7.81	0.45	0.63	0.08	0.44	Negative	Negative
1/15/2022	4.5	7.86	1.27	5.98	0.08	0.41	Negative	Negative
1/16/2022	4.8	7.86	4.59	13.29	0.08	0.33	Negative	Negative
1/17/2022	4.4	7.87	2.29	8.89	0.08	0.44	Negative	Negative
1/18/2022	4.1	7.89	1.00	1.95	0.08	0.39	Negative	Negative
1/19/2022	4.2	7.90	0.75	4.71	0.08	0.42	Negative	Negative
1/20/2022	4.4	7.90	0.76	2.59	0.09	0.41	Negative	Negative
1/21/2022	4.3	7.90	0.78	1.47	0.10	0.41	Negative	Negative
1/22/2022	4.1	7.91	1.04	2.29	0.10	0.38	Negative	Negative
1/23/2022	4.1	7.91	1.10	2.26	0.10	0.41	Negative	Negative
1/24/2022	3.9	7.92	1.07	3.53	0.10	0.38	Negative	Negative
1/25/2022	3.9	7.92	0.95	2.91	0.10	0.38	Negative	Negative
1/26/2022	3.9	7.93	0.70	1.12	0.09	0.40	Negative	Negative
1/27/2022	3.8	7.93	0.55	0.90	0.08	0.46	Negative	Negative
1/28/2022	3.7	7.94	0.56	0.69	0.08	0.40	Negative	Negative
1/29/2022	3.7	7.94	0.60	0.79	0.08	0.44	Negative	Negative
1/30/2022	3.7	7.94	0.65	0.94	0.09	0.43	Negative	Negative
1/31/2022	3.8	7.95	0.55	0.67	0.08	0.43	Negative	Negative
Avg	4.8	7.78	1.00	2.75	0.09	0.44	NA	NA
Min	3.7	7.42	0.39	0.59	0.08	0.33	NA	NA
Max	6.4	7.95	4.59	13.29	0.10	0.52	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	Lab			
1/1/2022	5.3	7.55	3.40	0.76		1.02	0	75	10	7	72	11.9	226	-1.03	1.43	0.35	Negative	Negative
1/2/2022	5.2	7.56	3.38	0.75		1.01	0	76	9	8	72	11.1	229	-1.02	1.13	0.34	Negative	Negative
1/3/2022	5.1	7.55	3.35	0.76	0.74	1.00	0	77	9	8	72	12.1	228	-1.03	1.13	0.34	Negative	Negative
1/4/2022	4.9	7.56	3.38	0.75		1.00	0	76	10	8	74	12.8	225	-1.01	1.25	0.36	Negative	Negative
1/5/2022	5.0	7.53	3.40	0.74		1.02	0	80	10	7	82	13.8	216	-0.97	1.43	0.33	Negative	Negative
1/6/2022	4.0	7.55	3.39	0.77		1.03	0	78	10	10	68	13.1	232	-1.08	1.00	0.39	Negative	Negative
1/7/2022	3.8	7.53	3.39	0.80		1.03	0	76	10	10	72	11.7	231	-1.09	1.00	0.40	Negative	Negative
1/8/2022	3.7	7.52	3.40	0.71		1.02	0	76	10	10	72	12.9	231	-1.11	1.00	0.40	Negative	Negative
1/9/2022	3.4	7.53	3.37	0.78		1.03	0	76	9	10	72	12.6	232	-1.10	0.90	0.37	Negative	Negative
1/10/2022	3.8	7.55	3.35	0.75	0.78	1.03	0	80	9	10	72	12.9	231	-1.05	0.90	0.35	Negative	Negative
1/11/2022	3.7	7.56	3.36	0.79		1.02	0	82	9	12	72	12.3	232	-1.03	0.75	0.38	Negative	Negative
1/12/2022	3.6	7.55	3.36	0.77		1.00	0	77	10	10	72	11.5	229	-1.07	1.00	0.39	Negative	Negative
1/13/2022	3.3	7.55	3.35	0.76		1.00	0	77	10	9	72	12.5	230	-1.08	1.11	0.37	Negative	Negative
1/14/2022	3.1	7.56	3.35	0.75		1.01	0	77	10	9	70	13.8	230	-1.09	1.11	0.37	Negative	Negative
1/15/2022	2.9	7.56	3.33	0.76		1.02	0	76	9	10	70	13.3	229	-1.10	0.90	0.37	Negative	Negative
1/16/2022	2.7	7.55	3.32	0.76		1.01	0	77	9	9	70	13.3	229	-1.10	1.00	0.35	Negative	Negative
1/17/2022	2.4	7.55	3.30	0.75	0.76	1.01	0	77	10	8	70	13.8	230	-1.11	1.25	0.36	Negative	Negative
1/18/2022	2.2	7.57	3.25	0.76		1.02	0	76	10	9	72	14.0	229	-1.10	1.11	0.38	Negative	Negative
1/19/2022	2.1	7.57	3.26	0.77		1.01	0	74	10	8	80	14.6	219	-1.05	1.25	0.37	Negative	Negative
1/20/2022	2.0	7.57	3.32	0.77		1.02	0	78	9	10	72	12.4	235	-1.09	0.90	0.36	Negative	Negative
1/21/2022	1.9	7.57	3.34	0.81		1.01	0	80	9	10	74	13.0	233	-1.07	0.90	0.35	Negative	Negative
1/22/2022	1.7	7.58	3.37	0.77		1.01	0	82	9	10	70	13.2	239	-1.07	0.90	0.35	Negative	Negative
1/23/2022	1.6	7.58	3.36	0.78		1.02	0	80	9	11	70	13.2	239	-1.09	0.82	0.37	Negative	Negative
1/24/2022	2.0	7.58	3.34	0.78	0.86	1.03	0	80	9	10	78	12.8	240	-1.03	0.90	0.35	Negative	Negative
1/25/2022	2.2	7.59	3.40	0.78		1.01	0	78	9	10	68	13.1	244	-1.09	0.90	0.36	Negative	Negative
1/26/2022	2.3	7.58	3.44	0.77		1.03	0	82	10	10	68	14.6	237	-1.07	1.00	0.37	Negative	Negative
1/27/2022	2.1	7.59	3.43	0.76		1.03	0	79	10	8	72	14.5	233	-1.06	1.25	0.35	Negative	Negative
1/28/2022	2.2	7.58	3.43	0.74		1.02	0	78	10	8	70	14.4	233	-1.08	1.25	0.35	Negative	Negative
1/29/2022	2.2	7.57	3.44	0.76		1.02	0	78	10	9	70	14.5	236	-1.09	1.11	0.37	Negative	Negative
1/30/2022	2.1	7.58	3.43	0.76		1.03	0	78	10	9	70	14.5	235	-1.09	1.11	0.37	Negative	Negative
1/31/2022	2.2	7.57	3.43	0.75	0.72	1.03	0	79	10	9	70	14.3	236	-1.09	1.11	0.37	Negative	Negative
Avg	3.1	7.56	3.37	0.76	0.77	1.02	0	78	10	9	72	13.2	232	-1.07	1.06	0.36	NA	NA
Min	1.6	7.52	3.25	0.71	0.72	1.00	0	74	9	7	68	11.1	216	-1.11	0.75	0.33	NA	NA
Max	5.3	7.59	3.44	0.81	0.86	1.03	0	82	10	12	82	14.6	244	-0.97	1.43	0.40	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
1/1/2022	0.64	0.98	1.74	0.68	0.022	0.022	96	0	0.0	0.020
1/2/2022	0.67	1.69	1.86	0.78	0.022	0.022	96	0	0.0	0.020
1/3/2022	2.14	5.20	2.04	1.13	0.022	0.022	96	0	0.0	0.020
1/4/2022	2.12	4.61	2.52	2.00	0.022	0.022	96	0	0.0	0.019
1/5/2022	0.89	1.45	2.06	1.51	0.021	0.022	96	0	0.0	0.018
1/6/2022	0.69	1.67	2.12	0.95	0.021	0.022	96	0	0.0	0.018
1/7/2022	0.95	3.35	1.38	0.81	0.021	0.021	96	0	0.0	0.018
1/8/2022	0.60	1.70	1.35	0.70	0.021	0.022	96	0	0.0	0.018
1/9/2022	0.72	2.85	1.32	0.66	0.021	0.021	96	0	0.0	0.018
1/10/2022	0.59	2.35	1.22	0.57	0.021	0.021	96	0	0.0	0.019
1/11/2022	0.46	1.99	1.09	0.51	0.021	0.021	96	0	0.0	0.018
1/12/2022	0.39	1.15	1.24	0.44	0.021	0.021	96	0	0.0	0.018
1/13/2022	0.41	0.59	1.39	0.39	0.021	0.021	96	0	0.0	0.018
1/14/2022	0.45	0.63	1.97	0.39	0.021	0.021	96	0	0.0	0.018
1/15/2022	1.27	5.98	1.45	0.51	0.021	0.021	96	0	0.0	0.018
1/16/2022	4.59	13.29	3.20	2.31	0.021	0.021	96	0	0.0	0.018
1/17/2022	2.29	8.89	3.21	2.27	0.021	0.021	96	0	0.0	0.018
1/18/2022	1.00	1.95	2.71	1.42	0.021	0.021	96	0	0.0	0.018
1/19/2022	0.75	4.71	2.38	1.22	0.021	0.021	96	0	0.0	0.018
1/20/2022	0.76	2.59	2.65	0.95	0.021	0.021	96	0	0.0	0.019
1/21/2022	0.78	1.47	2.02	0.79	0.021	0.021	96	0	0.0	0.019
1/22/2022	1.04	2.29	2.35	0.82	0.021	0.021	96	0	0.0	0.019
1/23/2022	1.10	2.26	2.46	0.94	0.021	0.021	96	0	0.0	0.019
1/24/2022	1.07	3.53	2.41	0.92	0.021	0.021	96	0	0.0	0.019
1/25/2022	0.95	2.91	1.76	0.84	0.021	0.021	96	0	0.0	0.019
1/26/2022	0.70	1.12	1.87	0.79	0.021	0.021	96	0	0.0	0.019
1/27/2022	0.55	0.90	1.31	0.58	0.021	0.021	96	0	0.0	0.019
1/28/2022	0.56	0.69	1.65	0.54	0.021	0.021	96	0	0.0	0.019
1/29/2022	0.60	0.79	2.11	0.54	0.021	0.021	96	0	0.0	0.019
1/30/2022	0.65	0.94	1.80	0.58	0.021	0.021	96	0	0.0	0.019
1/31/2022	0.55	0.67	1.47	0.52	0.021	0.021	96	0	0.0	0.019
Avg	1.00	2.75	1.94	0.90	0.021	0.021	96	0	0.0	0.019
Min	0.39	0.59	1.09	0.39	0.021	0.021	96	0	0.0	0.018
Max	4.59	13.29	3.21	2.31	0.022	0.022	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	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
1/1/2022	4.09	PASS	0.021	4.09	PASS	0.028	4.28	PASS	0.022	4.29	PASS	0.018	4.19	PASS	0.023	4.23	PASS	0.023	4.30	PASS	0.032	4.22	PASS	0.024		
1/2/2022	4.09	PASS	0.022	4.07	PASS	0.029	4.31	PASS	0.023	4.28	PASS	0.018	4.22	PASS	0.025	4.27	PASS	0.023	4.30	PASS	0.032	4.20	PASS	0.022		
1/3/2022	4.11	PASS	0.021	4.09	PASS	0.028	4.27	PASS	0.022	4.26	PASS	0.017	4.18	PASS	0.023	4.30	PASS	0.023	4.31	PASS	0.032	4.17	PASS	0.023		
1/4/2022	4.09	PASS	0.035	4.08	PASS	0.030	4.24	PASS	0.024	4.30	PASS	0.023	4.16	PASS	0.025	4.51	PASS	0.024	4.30	PASS	0.032	4.15	PASS	0.026		
1/5/2022	4.07	PASS	0.028	4.14	PASS	0.028	4.23	PASS	0.025	4.63	PASS	0.018	4.17	PASS	0.024	4.44	PASS	0.024	4.31	PASS	0.030	4.16	PASS	0.024		
1/6/2022	4.04	PASS	0.024	4.09	PASS	0.030	4.22	PASS	0.025	4.25	PASS	0.020	4.15	PASS	0.028	4.40	PASS	0.024	4.57	PASS	0.030	4.16	PASS	0.026		
1/7/2022	4.06	PASS	0.025	4.08	PASS	0.029	4.22	PASS	0.026	4.56	PASS	0.020	4.16	PASS	0.024	4.37	PASS	0.024	4.57	PASS	0.031	4.14	PASS	0.023		
1/8/2022	4.05	PASS	0.023	4.05	PASS	0.032	4.21	PASS	0.025	4.51	PASS	0.025	4.15	PASS	0.024	4.33	PASS	0.026	4.62	PASS	0.033	4.13	PASS	0.025		
1/9/2022	4.03	PASS	0.024	4.06	PASS	0.028	4.19	PASS	0.025	4.47	PASS	0.020	4.15	PASS	0.024	4.35	PASS	0.024	4.40	PASS	0.032	4.15	PASS	0.023		
1/10/2022	4.03	PASS	0.022	4.05	PASS	0.029	4.19	PASS	0.023	4.44	PASS	0.018	4.13	PASS	0.024	4.35	PASS	0.024	4.38	PASS	0.033	4.24	PASS	0.024		
1/11/2022	4.04	PASS	0.022	4.05	PASS	0.028	4.20	PASS	0.023	4.50	PASS	0.018	4.12	PASS	0.027	4.35	PASS	0.024	4.36	PASS	0.033	4.21	PASS	0.021		
1/12/2022	4.02	PASS	0.023	4.04	PASS	0.027	4.24	PASS	0.022	4.47	PASS	0.018	4.18	PASS	0.024	4.34	PASS	0.023	4.38	PASS	0.032	4.19	PASS	0.023		
1/13/2022	4.00	PASS	0.023	3.99	PASS	0.029	4.20	PASS	0.023	4.41	PASS	0.018	4.13	PASS	0.028	4.30	PASS	0.024	4.33	PASS	0.032	4.16	PASS	0.023		
1/14/2022	4.31	PASS	0.023	3.98	PASS	0.029	4.19	PASS	0.023	4.34	PASS	0.018	4.13	PASS	0.023	4.29	PASS	0.023	4.37	PASS	0.032	4.13	PASS	0.027		
1/15/2022	4.22	PASS	0.023	3.99	PASS	0.029	4.19	PASS	0.023	4.33	PASS	0.018	4.14	PASS	0.027	4.29	PASS	0.024	4.32	PASS	0.033	4.46	PASS	0.022		
1/16/2022	4.22	PASS	0.023	4.02	PASS	0.030	4.19	PASS	0.023	4.32	PASS	0.018	4.39	PASS	0.024	4.24	PASS	0.023	4.32	PASS	0.033	4.26	PASS	0.022		
1/17/2022	4.16	PASS	0.024	4.00	PASS	0.030	4.19	PASS	0.023	4.29	PASS	0.018	4.36	PASS	0.027	4.19	PASS	0.023	4.40	PASS	0.033	4.23	PASS	0.023		
1/18/2022	4.17	PASS	0.023	3.95	PASS	0.029	4.60	PASS	0.023	4.26	PASS	0.019	4.28	PASS	0.024	4.16	PASS	0.023	4.35	PASS	0.033	4.19	PASS	0.025		
1/19/2022	4.17	PASS	0.023	Out 1/19	Maint		4.43	PASS	0.022	4.23	PASS	0.267	4.22	PASS	0.027	4.21	PASS	0.023	4.33	PASS	0.032	4.17	PASS	0.021		
1/20/2022	4.11	PASS	0.023	In 1/21			4.29	PASS	0.023	4.32	PASS	0.018	4.25	PASS	0.024	4.25	PASS	0.024	4.30	PASS	0.033	4.21	PASS	0.022		
1/21/2022	4.07	PASS	0.023	4.18	PASS	0.029	4.25	PASS	0.022	4.28	PASS	0.019	4.26	PASS	0.024	4.23	PASS	0.023	4.47	PASS	0.033	4.14	PASS	0.022		
1/22/2022	4.11	PASS	0.023	4.08	PASS	0.028	4.35	PASS	0.023	4.23	PASS	0.018	4.22	PASS	0.024	4.26	PASS	0.024	4.37	PASS	0.033	4.12	PASS	0.021		
1/23/2022	4.13	PASS	0.023	4.00	PASS	0.028	4.30	PASS	0.023	4.20	PASS	0.019	4.22	PASS	0.024	4.19	PASS	0.023	4.34	PASS	0.033	4.10	PASS	0.022		
1/24/2022	4.10	PASS	0.023	4.01	PASS	0.027	4.27	PASS	0.022	4.24	PASS	0.018	4.19	PASS	0.024	4.50	PASS	0.025	4.28	PASS	0.033	4.17	PASS	0.027		
1/25/2022	4.04	PASS	0.024	4.05	PASS	0.027	4.26	PASS	0.023	4.25	PASS	0.018	4.24	PASS	0.024	4.43	PASS	0.026	4.38	PASS	0.033	4.11	PASS	0.025		
1/26/2022	4.01	PASS	0.025	4.21	PASS	0.028	4.28	PASS	0.023	4.33	PASS	0.019	4.17	PASS	0.024	4.28	PASS	0.024	4.35	PASS	0.033	4.10	PASS	0.022		
1/27/2022	4.07	PASS	0.024	4.11	PASS	0.027	4.31	PASS	0.023	4.28	PASS	0.018	4.18	PASS	0.024	4.27	PASS	0.025	4.35	PASS	0.033	4.10	PASS	0.023		
1/28/2022	4.08	PASS	0.023	4.04	PASS	0.028	4.29	PASS	0.023	4.23	PASS	0.018	4.17	PASS	0.025	4.31	PASS	0.024	4.35	PASS	0.032	4.11	PASS	0.021		
1/29/2022	4.07	PASS	0.022	4.01	PASS	0.027	Out 1/29	Maint.		4.22	PASS	0.018	4.18	PASS	0.024	4.32	PASS	0.024	4.43	PASS	0.033	4.13	PASS	0.022		
1/30/2022	4.06	PASS	0.022	4.06	PASS	0.030				4.26	PASS	0.018	4.15	PASS	0.024	4.22	PASS	0.024	4.35	PASS	0.033	4.07	PASS	0.023		
1/31/2022	4.10	PASS	0.023	4.07	PASS	0.029	In 2/1			4.24	PASS	0.021	4.20	PASS	0.024	4.23	PASS	0.024	4.35	PASS	0.032	4.03	PASS	0.022		
Avg	4.09		0.024	4.06		0.029	4.26		0.023	4.33		0.027	4.19		0.025	4.30		0.024	4.37		0.032	4.17		0.023		
Min	4.00		0.021	3.95		0.027	4.19		0.022	4.20		0.017	4.12		0.023	4.16		0.023	4.28		0.030	4.03		0.021		
Max	4.31		0.035	4.21		0.032	4.60		0.026	4.63		0.267	4.39		0.028	4.51		0.026	4.62		0.033	4.46		0.027		



\*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>					PO <sub>4</sub>		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
1/1/2022	6.7	0.50	0.38	0.73	1.08	1.02	3.21	3.40	0.08	0.63	0.76
1/2/2022	6.8	0.49	0.39	0.75	1.08	1.01	3.21	3.38	0.08	0.63	0.75
1/3/2022	6.8	0.42	0.38	0.75	1.05	1.00	3.22	3.35	0.08	0.63	0.76
1/4/2022	6.6	0.43	0.33	0.90	1.07	1.00	3.30	3.38	0.08	0.63	0.75
1/5/2022	6.9	0.48	0.35	0.85	1.08	1.02	3.30	3.40	0.08	0.63	0.74
1/6/2022	6.6	0.48	0.37	0.85	1.10	1.03	3.30	3.39	0.08	0.64	0.77
1/7/2022	6.8	0.45	0.37	0.83	1.08	1.03	3.30	3.39	0.10	0.64	0.80
1/8/2022	7.1	0.49	0.37	0.82	1.08	1.02	3.30	3.40	0.10	0.65	0.71
1/9/2022	7.2	0.52	0.40	0.80	1.09	1.03	3.30	3.37	0.09	0.65	0.78
1/10/2022	6.9	0.52	0.41	0.80	1.09	1.03	3.30	3.35	0.09	0.65	0.75
1/11/2022	7.0	0.51	0.41	0.77	1.07	1.02	3.33	3.36	0.09	0.65	0.79
1/12/2022	7.5	0.45	0.40	0.77	1.05	1.00	3.34	3.36	0.08	0.65	0.77
1/13/2022	6.8	0.43	0.37	0.84	1.06	1.00	3.34	3.35	0.08	0.65	0.76
1/14/2022	7.1	0.44	0.36	0.84	1.06	1.01	3.34	3.35	0.08	0.65	0.75
1/15/2022	6.9	0.41	0.35	0.87	1.08	1.02	3.34	3.33	0.08	0.65	0.76
1/16/2022	7.0	0.33	0.30	0.93	1.06	1.01	3.34	3.32	0.08	0.65	0.76
1/17/2022	7.2	0.44	0.31	0.94	1.08	1.01	3.34	3.30	0.08	0.65	0.75
1/18/2022	7.2	0.39	0.32	0.89	1.07	1.02	3.34	3.25	0.08	0.65	0.76
1/19/2022	7.3	0.42	0.33	0.90	1.07	1.01	3.34	3.26	0.08	0.65	0.77
1/20/2022	7.4	0.41	0.33	0.90	1.08	1.02	3.37	3.32	0.09	0.65	0.77
1/21/2022	6.9	0.41	0.33	0.90	1.06	1.01	3.39	3.34	0.10	0.64	0.81
1/22/2022	7.5	0.38	0.32	0.92	1.06	1.01	3.40	3.37	0.10	0.64	0.77
1/23/2022	7.4	0.41	0.32	0.93	1.08	1.02	3.40	3.36	0.10	0.64	0.78
1/24/2022	7.4	0.38	0.32	0.93	1.08	1.03	3.40	3.34	0.10	0.64	0.78
1/25/2022	7.1	0.38	0.30	0.96	1.07	1.01	3.40	3.40	0.10	0.64	0.78
1/26/2022	7.7	0.40	0.30	0.93	1.08	1.03	3.39	3.44	0.09	0.64	0.77
1/27/2022	7.1	0.46	0.34	0.91	1.08	1.03	3.38	3.43	0.08	0.64	0.76
1/28/2022	7.3	0.40	0.34	0.91	1.07	1.02	3.38	3.43	0.08	0.64	0.74
1/29/2022	7.4	0.44	0.35	0.91	1.08	1.02	3.38	3.44	0.08	0.64	0.76
1/30/2022	7.1	0.43	0.36	0.91	1.08	1.03	3.38	3.43	0.09	0.64	0.76
1/31/2022	7.5	0.43	0.35	0.91	1.08	1.03	3.38	3.43	0.08	0.64	0.75
Avg	7.1	0.44	0.35	0.87	1.07	1.02	3.34	3.37	0.09	0.64	0.76
Min	6.6	0.33	0.30	0.73	1.05	1.00	3.21	3.25	0.08	0.63	0.71
Max	7.7	0.52	0.41	0.96	1.10	1.03	3.40	3.44	0.10	0.65	0.81





Disinfection CT														
Date	Pipeline CT				FW Tank CT						Compliance			
	Whitestone	Travel Time	Residual	CT	FW Tank 1	FW Tank 2	Plant	Contact Time	Free Cl <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	Calculated	TIT-1000	Calculated	Calculated
1/1/2022	53.8	2,324	0.50	1164	28.7	25.0	6.4	575	0.99	566	1730	6.4	8.00	Y
1/2/2022	49.8	2,511	0.49	1231	28.7	24.8	6.4	574	0.99	570	1801	6.4	8.00	Y
1/3/2022	42.0	2,982	0.42	1258	28.7	24.2	6.5	555	0.96	536	1794	6.3	8.00	Y
1/4/2022	39.7	3,151	0.43	1343	28.7	23.0	6.4	550	0.99	545	1888	6.2	8.00	Y
1/5/2022	41.3	3,027	0.48	1450	28.7	23.1	6.6	542	0.97	527	1977	5.9	8.00	Y
1/6/2022	42.1	2,972	0.48	1438	28.6	24.4	6.3	580	1.01	583	2022	5.9	8.00	Y
1/7/2022	43.7	2,864	0.45	1294	28.7	23.8	6.5	554	1.01	558	1851	5.9	8.00	Y
1/8/2022	53.2	2,353	0.49	1145	28.7	23.3	6.7	529	1.01	532	1678	5.9	8.00	Y
1/9/2022	53.6	2,335	0.52	1220	28.7	24.4	6.9	531	1.01	534	1755	5.7	8.00	Y
1/10/2022	46.8	2,672	0.52	1388	28.7	22.9	6.7	530	0.93	493	1882	5.3	8.00	Y
1/11/2022	42.7	2,928	0.51	1491	28.7	22.3	6.7	522	0.99	514	2005	5.4	8.00	Y
1/12/2022	40.9	3,057	0.45	1377	28.7	23.6	7.1	507	0.94	479	1856	5.0	8.00	Y
1/13/2022	41.7	3,001	0.43	1277	28.7	22.3	6.7	524	0.99	516	1794	4.9	12.00	Y
1/14/2022	40.8	3,063	0.44	1334	28.7	22.7	6.7	527	0.99	523	1857	4.6	12.00	Y
1/15/2022	54.7	2,288	0.41	932	28.7	24.1	6.5	554	0.99	546	1478	4.5	12.00	Y
1/16/2022	54.2	2,308	0.33	763	28.7	23.7	6.8	532	0.99	524	1287	4.8	12.00	Y
1/17/2022	47.8	2,617	0.44	1143	28.7	24.6	6.8	534	0.99	527	1670	4.4	12.00	Y
1/18/2022	42.6	2,937	0.39	1142	28.7	23.6	7.0	510	0.99	502	1644	4.1	12.00	Y
1/19/2022	39.2	3,192	0.42	1351	28.7	24.3	7.0	520	0.99	516	1867	4.2	12.00	Y
1/20/2022	38.6	3,242	0.41	1342	28.4	23.6	7.1	500	0.98	489	1830	4.4	12.00	Y
1/21/2022	41.7	3,001	0.41	1229	28.7	23.1	6.7	532	0.99	528	1757	4.3	12.00	Y
1/22/2022	54.7	2,289	0.38	878	28.7	23.2	7.1	502	0.96	484	1362	4.1	12.00	Y
1/23/2022	55.7	2,246	0.41	923	28.7	23.6	7.1	502	0.96	484	1408	4.1	12.00	Y
1/24/2022	47.4	2,638	0.38	1002	28.7	23.4	7.1	503	0.99	496	1497	3.9	12.00	Y
1/25/2022	41.7	3,001	0.38	1155	28.7	23.6	6.7	537	0.96	518	1673	3.9	12.00	Y
1/26/2022	41.0	3,052	0.40	1220	28.8	24.6	7.3	499	0.99	495	1715	3.9	12.00	Y
1/27/2022	41.9	2,987	0.46	1366	28.7	23.0	7.0	509	1.00	508	1874	3.8	12.00	Y
1/28/2022	43.6	2,871	0.40	1155	28.7	23.7	7.0	515	0.99	508	1662	3.7	12.00	Y
1/29/2022	54.4	2,299	0.44	1022	28.8	23.6	6.9	522	0.98	510	1533	3.7	12.00	Y
1/30/2022	52.3	2,392	0.43	1038	28.6	23.2	7.0	506	0.99	502	1540	3.7	12.00	Y
1/31/2022	46.6	2,685	0.43	1162	28.7	22.7	6.9	507	0.99	500	1662	3.8	12.00	Y
Avg	46.1	2,751	0.44	1201	28.7	23.6	6.8	529	0.98	520	1721	4.8	10.45	NA
Min	38.6	2,246	0.33	763	28.4	22.3	6.3	499	0.93	479	1287	3.7	8.00	NA
Max	55.7	3,242	0.52	1491	28.8	25.0	7.3	580	1.01	583	2022	6.4	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
1/1/2022																								
1/2/2022																								
1/3/2022																								
1/4/2022	0.31	0.62	0.44	0.55	0.95											0.89	0.89	0.80	0.71	0.62		0.41		
1/5/2022									0.77	0.53	0.55	0.67	0.44	0.87	0.79									
1/6/2022						0.75	0.60																	0.83
1/7/2022																								
1/8/2022																								
1/9/2022																								
1/10/2022																								
1/11/2022				0.59	0.97				0.77	0.46	0.53	0.85	0.50	0.89	0.72	0.88	0.89	0.92	0.80	0.72		0.45		0.98
1/12/2022									0.80	0.67	0.74	0.73	0.45	1.03	0.85						0.94			
1/13/2022																								
1/14/2022																								
1/15/2022																								
1/16/2022																								0.96
1/17/2022																								
1/18/2022		0.20	0.49	0.60	0.99			0.98																
1/19/2022									0.93	0.63	0.65	0.88	0.56	0.97	0.87									
1/20/2022																								
1/21/2022																								
1/22/2022																								
1/23/2022																								
1/24/2022																								0.95
1/25/2022									0.85		0.75	0.74	0.49	0.94	0.80									
1/26/2022																								
1/27/2022									0.94	0.55	0.63	0.91	0.60	0.99	0.75									
1/28/2022																								
1/29/2022																								
1/30/2022																								
1/31/2022																								
Average	0.31			0.64				0.78					0.73					0.81			0.94		0.43	0.93
Min	0.31			0.20				0.60					0.44					0.62			0.94		0.41	0.83
Max	0.31			0.99				0.98					1.03					0.92			0.94		0.45	0.98



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
Date	Fraser Twp.		Hampton Twp.			Kawkawlin Twp.			Kawkawlin Met.		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
	34	35	37	38	39	40	41	42	43	45	46	48	49	52	55	58	59	61	63	65	68	69	70	72
1/1/2022																								
1/2/2022																								
1/3/2022			0.53	0.74	0.71																			
1/4/2022											0.53									0.61	0.69	0.71	0.58	0.48
1/5/2022																								
1/6/2022	0.57	0.71				0.98	0.74		0.74				0.94	0.60	0.52	0.56		0.53	0.59					
1/7/2022																								
1/8/2022																								
1/9/2022																								
1/10/2022			0.54	0.45	0.73																			
1/11/2022											0.56										0.68	0.77	0.66	
1/12/2022																								
1/13/2022								0.89	0.81				0.93	0.78	0.79	0.73								
1/14/2022																								
1/15/2022																								
1/16/2022																								
1/17/2022																								
1/18/2022			0.83	0.76	0.62																			
1/19/2022																								
1/20/2022																								
1/21/2022																								
1/22/2022																								
1/23/2022																								
1/24/2022			0.73																					
1/25/2022																								
1/26/2022																								
1/27/2022																								
1/28/2022																								
1/29/2022																								
1/30/2022																								
1/31/2022																								
Average	0.64		0.66			0.87			0.78		0.55		0.76			0.65		0.56		0.61		0.68		0.48
Min	0.57		0.45			0.74			0.74		0.53		0.52			0.56		0.53		0.61		0.58		0.48
Max	0.71		0.83			0.98			0.81		0.56		0.94			0.73		0.59		0.61		0.77		0.48



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			
				January, 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	0.31	1	1	0	0
BAY	Bangor Township	0390	0.64	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.78	3	3	0	0
BAY	Bay City	0470	0.73	30	41	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.81	9	10	0	0
BAY	Beaver Road Area	0517	0.94	1	1	0	0
BAY	Beaver Township	0518	0.43	2	2	0	0
BAY	Essexville	2180	0.93	4	4	0	0
BAY	Fraser Township	2465	0.64	2	2	0	0
BAY	Hampton Township	2960	0.66	10	10	0	0
BAY	Kawkawlin Township	3565	0.87	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.78	2	2	0	0
BAY	Merritt Township	4280	0.55	2	2	0	0
BAY	Monitor Township	4440	0.76	6	6	0	0
BAY	City of Pinconning	5330	0.65	2	2	0	0
BAY	Pinconning Township	5335	0.56	2	2	0	0
BAY	Portsmouth Township	5540	0.61	1	1	0	0
BAY	Williams Township	7125	0.68	6	6	0	0
Tuscola	Wisner	7134	0.48	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.67	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%		

