


# Bay Area WTP

## Monthly Operations Report



June, 2020

Water Systems Serial Number: 0465

  
\_\_\_\_\_  
Ryan Goebel

Water Plant Superintendent  
Title

F-1  
Classification

  
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Mike Wagar

Operations Supervisor  
Title

F-2  
Classification

# Bay Area Water Treatment Plant

## Monthly Operations Report

Supply Name: Bay Area Water System  
 WSSN: 0465

Ryan Goebel  
 Operator-in-charge

June, 2020  
 Month, Year

F-1  
 Certification of Operator-in-charge

F-1  
 Water Plant Classification

Bay  
 County

### Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>11.9</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>12.70</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>30.03</u>	gpd/sq.ft.

### Chemical Data

Sodium Hypochlorite on hand:	<u>5,162</u>	Gallons	Estimated Supply:	<u>65.8</u>	days
Caustic Soda on hand:	<u>2,213</u>	Gallons	Estimated Supply:	<u>161.1</u>	days
Corrosion Inhibitor on hand:	<u>943</u>	Gallons	Estimated Supply:	<u>32.3</u>	days
Hydrofluosilicic Acid on hand:	<u>1,314</u>	Gallons	Estimated Supply:	<u>51.1</u>	days
Aluminum Chlorohydrate on hand:	<u>472</u>	Gallons	Estimated Supply:	<u>58.3</u>	days
Sulfuric Acid on hand:	<u>306</u>	Gallons	Estimated Supply:	<u>88.8</u>	days
Sodium Bisulfite on hand:	<u>685</u>	Gallons	Estimated Supply:	<u>112.5</u>	days
Citric Acid on hand:	<u>2,949</u>	Gallons	Estimated Supply:	<u>276.1</u>	days
Cost of All Chemicals per Million Gallons:	<u>66.57</u>	Dollars			
Estimated Electrical Cost per Million Gallons:	<u>76.26</u>	Dollars			
Estimated Natural Gas Cost per Million Gallons:	<u>0.08</u>	Dollars			

### Remarks

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



### Notes

Fluoride feed was shut down for maintenance at 9am on Monday 6/15/2020 and started back up at 4pm on Tuesday 6/16/20

## 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
6/1/2020	3.40	4.19	7.58	0.31	0.04	8.50	4.40	3.93	8.33
6/2/2020	3.98	5.50	9.49	0.31	0.04	8.58	4.49	3.88	8.37
6/3/2020	2.57	5.76	8.34	0.28	0.04	7.38	3.75	3.46	7.21
6/4/2020	1.78	5.21	6.99	0.31	0.04	8.16	4.25	3.74	7.99
6/5/2020	1.84	6.45	8.29	0.33	0.04	8.49	4.41	3.78	8.19
6/6/2020	2.05	6.81	8.86	0.31	0.04	8.20	4.37	3.77	8.14
6/7/2020	2.07	6.14	8.21	0.30	0.04	8.54	4.41	3.83	8.24
6/8/2020	2.54	6.43	8.96	0.31	0.04	8.97	4.76	4.15	8.91
6/9/2020	2.83	6.20	9.03	0.35	0.04	9.21	4.83	4.18	9.01
6/10/2020	2.81	5.63	8.44	0.31	0.04	7.69	4.05	3.53	7.58
6/11/2020	2.73	4.57	7.30	0.26	0.05	7.06	3.47	3.30	6.78
6/12/2020	3.20	3.76	6.95	0.26	0.05	6.92	3.38	3.23	6.61
6/13/2020	2.55	3.57	6.11	0.25	0.04	7.16	3.49	3.38	6.87
6/14/2020	3.29	3.64	6.93	0.27	0.05	7.90	3.87	3.80	7.68
6/15/2020	4.24	4.64	8.88	0.31	0.04	8.85	4.28	4.15	8.44
6/16/2020	4.55	5.01	9.56	0.34	0.04	9.32	4.77	4.40	9.17
6/17/2020	4.64	5.18	9.82	0.42	0.05	10.02	5.25	4.60	9.84
6/18/2020	4.84	5.64	10.48	0.34	0.05	9.94	5.22	4.58	9.80
6/19/2020	5.00	5.89	10.89	0.39	0.04	10.00	5.28	4.64	9.92
6/20/2020	5.13	5.00	10.13	0.36	0.04	9.85	5.08	4.46	9.53
6/21/2020	4.60	4.47	9.07	0.33	0.04	9.27	4.91	4.32	9.22
6/22/2020	4.30	5.40	9.70	0.37	0.04	10.01	5.20	4.59	9.80
6/23/2020	4.22	5.62	9.84	0.35	0.04	9.42	4.93	4.33	9.26
6/24/2020	4.17	3.87	8.05	0.33	0.05	9.46	4.99	4.37	9.36
6/25/2020	4.59	6.56	11.15	0.38	0.04	11.29	5.80	5.20	11.00
6/26/2020	5.00	7.00	11.99	0.37	0.04	10.22	5.35	4.72	10.08
6/27/2020	3.11	5.44	8.55	0.36	0.06	9.40	4.93	4.32	9.24
6/28/2020	2.97	6.63	9.60	0.37	0.07	10.49	5.48	4.86	10.35
6/29/2020	4.66	7.76	12.42	0.40	0.07	11.84	6.17	5.53	11.70
6/30/2020	5.02	7.47	12.50	0.39	0.04	11.94	6.15	5.59	11.74
Total	108.67	165.43	274.09	9.98	1.35	274.06	141.73	126.62	268.35
Avg	3.62	5.51	9.14	0.33	0.04	9.14	4.72	4.22	8.94
Min	1.78	3.57	6.11	0.25	0.04	6.92	3.38	3.23	6.61
Max	5.13	7.76	12.50	0.42	0.07	11.94	6.17	5.59	11.74



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	
6/1/2020	10.5	8.06	0.88	2.33	0.08	0.53	Negative	Negative
6/2/2020	10.8	8.06	0.56	0.82	0.08	0.57	Negative	Negative
6/3/2020	10.9	8.01	0.41	1.86	0.08	0.59	Negative	Negative
6/4/2020	10.6	8.01	0.50	4.38	0.09	0.52	Negative	Negative
6/5/2020	10.7	8.04	0.47	1.58	0.09	0.53	Negative	Negative
6/6/2020	10.9	8.06	0.74	1.04	0.09	0.51	Negative	Negative
6/7/2020	11.1	8.08	0.67	1.15	0.09	0.49	Negative	Negative
6/8/2020	11.9	8.11	0.78	1.81	0.10	0.18	Negative	Negative
6/9/2020	12.7	8.03	0.66	2.34	0.08	0.32	Negative	Negative
6/10/2020	12.9	8.00	0.55	1.88	0.05	0.44	Negative	Negative
6/11/2020	12.9	8.05	0.46	1.84	0.07	0.62	Negative	Negative
6/12/2020	13.0	8.04	0.81	2.66	0.06	0.54	Negative	Negative
6/13/2020	13.0	8.02	0.53	2.00	0.08	0.56	Negative	Negative
6/14/2020	13.1	8.04	0.48	1.23	0.07	0.51	Negative	Negative
6/15/2020	13.5	8.08	0.47	1.20	0.07	0.44	Negative	Negative
6/16/2020	13.8	8.09	0.54	1.01	0.08	0.39	Negative	Negative
6/17/2020	14.0	8.07	0.54	4.41	0.06	0.41	Negative	Negative
6/18/2020	14.2	8.05	0.42	0.70	0.09	0.57	Negative	Negative
6/19/2020	14.2	8.04	0.50	0.79	0.08	0.66	Negative	Negative
6/20/2020	14.2	8.04	0.63	2.44	0.09	0.72	Negative	Negative
6/21/2020	14.1	8.05	0.47	1.38	0.08	0.70	Negative	Negative
6/22/2020	14.1	8.06	0.38	1.80	0.08	0.64	Negative	Negative
6/23/2020	13.9	8.08	0.37	1.51	0.08	0.52	Negative	Negative
6/24/2020	13.8	8.09	0.39	4.38	0.08	0.50	Negative	Negative
6/25/2020	13.6	8.06	0.38	1.38	0.09	0.54	Negative	Negative
6/26/2020	13.8	8.06	0.34	0.90	0.10	0.63	Negative	Negative
6/27/2020	13.7	8.07	0.42	1.56	0.09	0.70	Negative	Negative
6/28/2020	13.6	8.07	0.33	0.76	0.09	0.69	Negative	Negative
6/29/2020	13.7	8.10	0.30	0.55	0.09	0.63	Negative	Negative
6/30/2020	13.8	8.11	0.30	0.58	0.09	0.63	Negative	Negative
Avg	12.9	8.06	0.51	1.74	0.08	0.54	NA	NA
Min	10.5	8.00	0.30	0.55	0.05	0.18	NA	NA
Max	14.2	8.11	0.88	4.41	0.10	0.72	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	
6/1/2020	7.0	7.58	3.44	0.77	0.77	1.08	0	76	10	10	76	11.0	225	-0.93	1.00	0.40	Negative	Negative
6/2/2020	7.5	7.59	3.47	0.78		1.12	0	75	9	12	72	10.8	250	-0.94	0.75	0.41	Negative	Negative
6/3/2020	7.9	7.59	3.44	0.76		1.13	0	78	11	11	77	11.4	250	-0.88	1.00	0.43	Negative	Negative
6/4/2020	7.7	7.58	3.41	0.77		1.11	0	77	10	9	76	11.2	249	-0.91	1.10	0.37	Negative	Negative
6/5/2020	7.8	7.58	3.44	0.76		1.11	0	77	11	9	72	11.5	251	-0.94	1.22	0.40	Negative	Negative
6/6/2020	7.8	7.59	3.44	0.75		1.10	0	78	11	9	74	11.3	253	-0.91	1.22	0.39	Negative	Negative
6/7/2020	7.9	7.60	3.44	0.75		1.11	0	79	10	10	74	11.1	253	-0.89	1.00	0.38	Negative	Negative
6/8/2020	8.5	7.61	3.44	0.76	0.73	1.09	0	80	11	11	78	10.8	258	-0.83	1.00	0.41	Negative	Negative
6/9/2020	10.4	7.63	3.44	0.75		1.07	0	82	11	11	76	10.5	264	-0.77	1.00	0.40	Negative	Negative
6/10/2020	11.3	7.62	3.45	0.72		1.10	0	83	15	7	76	9.6	277	-0.76	2.14	0.42	Negative	Negative
6/11/2020	11.1	7.62	3.44	0.67		1.12	0	82	12	11	78	10.5	267	-0.76	1.09	0.43	Negative	Negative
6/12/2020	10.8	7.62	3.44	0.69		1.10	0	82	10	11	80	10.3	261	-0.75	0.91	0.38	Negative	Negative
6/13/2020	10.6	7.62	3.44	0.70		1.14	0	78	10	12	74	10.2	262	-0.81	0.83	0.42	Negative	Negative
6/14/2020	10.4	7.62	3.43	0.75		1.14	0	84	11	12	84	10.2	263	-0.73	0.92	0.41	Negative	Negative
6/15/2020	10.9	7.66	3.42	0.61	0.80	1.13	0	82	12	12	82	10.2	269	-0.69	1.00	0.44	Negative	Negative
6/16/2020	11.6	7.74	3.42	0.18		1.10	0	85	10	12	84	9.7	272	-0.58	0.83	0.38	Negative	Negative
6/17/2020	12.3	7.64	3.43	0.69		1.11	0	76	12	12	74	10.1	273	-0.76	1.00	0.48	Negative	Negative
6/18/2020	12.7	7.62	3.43	0.76		1.12	0	82	12	12	78	9.8	270	-0.72	1.00	0.44	Negative	Negative
6/19/2020	12.6	7.59	3.44	0.76		1.12	0	80	11	11	74	9.9	262	-0.77	1.00	0.41	Negative	Negative
6/20/2020	12.3	7.58	3.42	0.77		1.12	0	78	11	9	72	9.9	257	-0.82	1.22	0.39	Negative	Negative
6/21/2020	11.9	7.58	3.43	0.76		1.12	0	78	11	10	74	10.4	252	-0.81	1.10	0.41	Negative	Negative
6/22/2020	11.4	7.58	3.42	0.78	0.70	1.12	0	80	11	13	72	10.6	248	-0.82	0.85	0.45	Negative	Negative
6/23/2020	10.9	7.60	3.43	0.80		1.11	0	75	11	12	80	10.0	246	-0.81	0.92	0.46	Negative	Negative
6/24/2020	10.4	7.61	3.44	0.81		1.12	0	79	10	11	84	11.0	250	-0.76	0.91	0.40	Negative	Negative
6/25/2020	10.1	7.61	3.42	0.82		1.13	0	78	9	11	74	10.4	254	-0.83	0.85	0.39	Negative	Negative
6/26/2020	10.4	7.61	3.42	0.82		1.12	0	82	10	11	74	10.5	256	-0.81	0.91	0.38	Negative	Negative
6/27/2020	10.1	7.60	3.43	0.77		1.12	0	75	10	12	72	9.5	253	-0.87	0.81	0.43	Negative	Negative
6/28/2020	9.9	7.60	3.42	0.75		1.12	0	75	11	11	74	11.1	249	-0.86	1.00	0.44	Negative	Negative
6/29/2020	9.9	7.60	3.42	0.77	0.79	1.13	0	78	10	11	74	10.9	252	-0.84	0.91	0.40	Negative	Negative
6/30/2020	9.9	7.60	3.42	0.77		1.12	0	76	10	11	70	10.7	251	-0.88	0.94	0.42	Negative	Negative
Avg	10.1	7.61	3.43	0.73	0.76	1.11	0	79	11	11	76	10.5	257	-0.81	1.01	0.41	NA	NA
Min	7.0	7.58	3.41	0.18	0.70	1.07	0	75	9	7	70	9.5	225	-0.94	0.75	0.37	NA	NA
Max	12.7	7.74	3.47	0.82	0.80	1.14	0	85	15	13	84	11.5	277	-0.58	2.14	0.48	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	
6/1/2020	0.88	2.33	0.84	0.81	0.022	0.022	96	0	0.0	0.017
6/2/2020	0.56	0.82	0.98	0.74	0.022	0.022	96	0	0.0	0.017
6/3/2020	0.41	1.86	1.02	0.60	0.022	0.022	96	0	0.0	0.017
6/4/2020	0.50	4.38	0.85	0.50	0.022	0.022	96	0	0.0	0.017
6/5/2020	0.47	1.58	1.01	0.48	0.022	0.022	96	0	0.0	0.017
6/6/2020	0.74	1.04	1.08	0.62	0.022	0.022	96	0	0.0	0.017
6/7/2020	0.67	1.15	1.34	0.88	0.022	0.022	96	0	0.0	0.017
6/8/2020	0.78	1.81	1.39	0.86	0.022	0.022	96	0	0.0	0.017
6/9/2020	0.66	2.34	1.91	0.92	0.022	0.022	96	0	0.0	0.017
6/10/2020	0.55	1.88	1.33	0.74	0.022	0.022	96	0	0.0	0.018
6/11/2020	0.46	1.84	0.96	0.58	0.022	0.022	96	0	0.0	0.018
6/12/2020	0.81	2.66	0.80	0.54	0.022	0.022	96	0	0.0	0.017
6/13/2020	0.53	2.00	0.89	0.64	0.022	0.022	96	0	0.0	0.017
6/14/2020	0.48	1.23	0.92	0.55	0.022	0.022	96	0	0.0	0.017
6/15/2020	0.47	1.20	0.94	0.50	0.022	0.022	96	0	0.0	0.017
6/16/2020	0.54	1.01	1.04	0.53	0.022	0.022	96	0	0.0	0.017
6/17/2020	0.54	4.41	1.33	0.59	0.022	0.022	96	0	0.0	0.017
6/18/2020	0.42	0.70	0.86	0.55	0.022	0.022	96	0	0.0	0.017
6/19/2020	0.50	0.79	1.02	0.54	0.022	0.022	96	0	0.0	0.017
6/20/2020	0.63	2.44	0.98	0.62	0.022	0.022	96	0	0.0	0.017
6/21/2020	0.47	1.38	0.87	0.63	0.022	0.022	96	0	0.0	0.017
6/22/2020	0.38	1.80	1.03	0.51	0.021	0.022	96	0	0.0	0.017
6/23/2020	0.37	1.51	0.90	0.40	0.021	0.021	96	0	0.0	0.017
6/24/2020	0.39	4.38	0.93	0.37	0.021	0.021	96	0	0.0	0.017
6/25/2020	0.38	1.38	1.14	0.37	0.021	0.021	96	0	0.0	0.017
6/26/2020	0.34	0.90	1.12	0.33	0.021	0.021	96	0	0.0	0.017
6/27/2020	0.42	1.56	0.89	0.34	0.021	0.021	96	0	0.0	0.017
6/28/2020	0.33	0.76	1.03	0.38	0.021	0.021	96	0	0.0	0.017
6/29/2020	0.30	0.55	0.84	0.34	0.021	0.021	96	0	0.0	0.017
6/30/2020	0.30	0.58	1.01	0.32	0.021	0.021	96	0	0.0	0.017
Avg	0.51	1.74	1.04	0.56	0.022	0.022	96	0	0.0	0.017
Min	0.30	0.55	0.80	0.32	0.021	0.021	96	0	0.0	0.017
Max	0.88	4.41	1.91	0.92	0.022	0.022	96	0	0.0	0.018

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



Date	Membrane LRV/Integrity/Max Turbidity																									
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8				
	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity		
	Average		Max	Average		Max	Average		Max	Average		Max	Average		Max	Average		Max	Average		Max	Average		Max		
psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU
6/1/2020	4.61	PASS	0.020	4.52	PASS	0.035	4.49	PASS	0.019	4.63	PASS	0.017	4.41	PASS	0.021	4.66	PASS	0.023	4.54	PASS	0.030	4.43	PASS	0.021		
6/2/2020	4.50	PASS	0.020	4.52	PASS	0.035	4.46	PASS	0.019	4.62	PASS	0.017	4.40	PASS	0.021	4.64	PASS	0.023	4.51	PASS	0.027	4.42	PASS	0.021		
6/3/2020	4.56	PASS	0.019	4.51	PASS	0.036	4.50	PASS	0.019	4.63	PASS	0.017	4.39	PASS	0.022	4.65	PASS	0.025	4.53	PASS	0.028	4.41	PASS	0.021		
6/4/2020	4.56	PASS	0.019	4.61	PASS	0.032	4.46	PASS	0.019	4.64	PASS	0.016	4.41	PASS	0.026	4.66	PASS	0.023	4.54	PASS	0.027	4.41	PASS	0.021		
6/5/2020	4.54	PASS	0.019	4.50	PASS	0.032	4.43	PASS	0.019	4.63	PASS	0.017	4.40	PASS	0.025	4.64	PASS	0.023	4.56	PASS	0.027	4.41	PASS	0.021		
6/6/2020	4.65	PASS	0.023	4.51	PASS	0.033	4.46	PASS	0.019	4.63	PASS	0.017	4.39	PASS	0.021	4.65	PASS	0.023	4.54	PASS	0.028	4.40	PASS	0.021		
6/7/2020	4.80	PASS	0.019	4.50	PASS	0.034	4.45	PASS	0.019	4.63	PASS	0.016	4.40	PASS	0.022	4.65	PASS	0.023	4.53	PASS	0.028	4.40	PASS	0.021		
6/8/2020	4.49	PASS	0.021	4.61	PASS	0.035	4.44	PASS	0.020	4.69	PASS	0.017	4.45	PASS	0.025	4.64	PASS	0.023	4.51	PASS	0.028	4.40	PASS	0.022		
6/9/2020	4.50	PASS	0.023	4.47	PASS	0.032	4.44	PASS	0.019	4.80	PASS	0.017	4.38	PASS	0.021	4.62	PASS	0.023	4.52	PASS	0.029	4.38	PASS	0.022		
6/10/2020	4.47	PASS	0.019	4.48	PASS	0.032	4.44	PASS	0.019	4.96	PASS	0.018	4.37	PASS	0.022	4.64	PASS	0.023	4.54	PASS	0.028	4.39	PASS	0.022		
6/11/2020	4.49	PASS	0.019	4.49	PASS	0.034	4.45	PASS	0.019	4.92	PASS	0.017	4.45	PASS	0.024	4.66	PASS	0.023	4.52	PASS	0.028	4.39	PASS	0.022		
6/12/2020	4.51	PASS	0.019	4.49	PASS	0.031	4.46	PASS	0.019	4.91	PASS	0.017	4.38	PASS	0.022	4.65	PASS	0.023	4.52	PASS	0.028	4.39	PASS	0.021		
6/13/2020	4.52	PASS	0.019	4.49	PASS	0.032	4.45	PASS	0.019	4.89	PASS	0.016	4.38	PASS	0.023	4.67	PASS	0.023	4.52	PASS	0.027	4.39	PASS	0.021		
6/14/2020	4.51	PASS	0.019	4.49	PASS	0.031	4.45	PASS	0.019	4.89	PASS	0.017	4.39	PASS	0.020	4.68	PASS	0.022	4.51	PASS	0.028	4.40	PASS	0.021		
6/15/2020	4.49	PASS	0.019	4.49	PASS	0.031	4.43	PASS	0.019	4.90	PASS	0.017	4.42	PASS	0.020	4.64	PASS	0.023	4.51	PASS	0.027	4.39	PASS	0.021		
6/16/2020	4.48	PASS	0.019	4.48	PASS	0.030	4.44	PASS	0.019	4.91	PASS	0.017	4.37	PASS	0.021	4.64	PASS	0.023	4.51	PASS	0.028	4.39	PASS	0.021		
6/17/2020	4.48	PASS	0.019	4.46	PASS	0.031	4.40	PASS	0.019	4.89	PASS	0.017	4.35	PASS	0.024	4.65	PASS	0.023	4.61	PASS	0.026	4.38	PASS	0.022		
6/18/2020	4.47	PASS	0.019	4.46	PASS	0.031	4.36	PASS	0.019	4.88	PASS	0.017	4.47	PASS	0.024	4.65	PASS	0.023	4.60	PASS	0.028	4.38	PASS	0.022		
6/19/2020	4.47	PASS	0.019	4.44	PASS	0.031	4.47	PASS	0.019	4.85	PASS	0.017	4.41	PASS	0.021	4.62	PASS	0.023	4.65	PASS	0.028	4.39	PASS	0.021		
6/20/2020	4.49	PASS	0.019	4.46	PASS	0.034	4.46	PASS	0.019	4.86	PASS	0.017	4.39	PASS	0.020	4.61	PASS	0.022	4.65	PASS	0.027	4.39	PASS	0.021		
6/21/2020	4.50	PASS	0.019	4.47	PASS	0.030	4.46	PASS	0.019	4.87	PASS	0.016	4.39	PASS	0.021	4.65	PASS	0.023	4.60	PASS	0.026	4.40	PASS	0.021		
6/22/2020	4.51	PASS	0.023	4.46	PASS	0.033	4.47	PASS	0.021	4.87	PASS	0.016	4.40	PASS	0.020	4.65	PASS	0.022	4.60	PASS	0.076	4.41	PASS	0.022		
6/23/2020	4.51	PASS	0.019	4.49	PASS	0.033	4.49	PASS	0.020	4.86	PASS	0.019	4.39	PASS	0.020	4.65	PASS	0.022	4.60	PASS	0.026	4.41	PASS	0.023		
6/24/2020	4.48	PASS	0.019	4.46	PASS	0.031	4.47	PASS	0.019	4.87	PASS	0.017	4.39	PASS	0.020	4.63	PASS	0.022	4.58	PASS	0.026	4.44	PASS	0.022		
6/25/2020	4.47	PASS	0.019	4.47	PASS	0.032	4.47	PASS	0.019	4.87	PASS	0.017	4.37	PASS	0.023	4.65	PASS	0.023	4.58	PASS	0.028	4.50	PASS	0.022		
6/26/2020	4.47	PASS	0.019	4.47	PASS	0.037	4.55	PASS	0.019	4.84	PASS	0.017	4.37	PASS	0.020	4.66	PASS	0.022	4.58	PASS	0.028	4.48	PASS	0.023		
6/27/2020	4.48	PASS	0.019	4.47	PASS	0.033	4.45	PASS	0.020	4.85	PASS	0.017	4.46	PASS	0.020	4.65	PASS	0.022	4.55	PASS	0.027	4.48	PASS	0.022		
6/28/2020	4.51	PASS	0.019	4.46	PASS	0.034	4.47	PASS	0.019	4.81	PASS	0.017	4.40	PASS	0.020	4.62	PASS	0.022	4.55	PASS	0.029	4.44	PASS	0.022		
6/29/2020	4.52	PASS	0.018	4.45	PASS	0.035	4.45	PASS	0.019	4.83	PASS	0.017	4.45	PASS	0.020	4.62	PASS	0.023	4.56	PASS	0.026	4.46	PASS	0.022		
6/30/2020	4.50	PASS	0.021	4.44	PASS	0.034	4.44	PASS	0.019	4.77	PASS	0.017	4.38	PASS	0.020	4.61	PASS	0.022	4.55	PASS	0.027	4.41	PASS	0.022		
Avg	4.52		0.020	4.49		0.033	4.45		0.019	4.81		0.017	4.40		0.022	4.64		0.023	4.56		0.029	4.41		0.022		
Min	4.47		0.018	4.44		0.030	4.36		0.019	4.62		0.016	4.35		0.020	4.61		0.022	4.51		0.026	4.38		0.021		
Max	4.80		0.023	4.61		0.037	4.55		0.021	4.96		0.019	4.47		0.026	4.68		0.025	4.65		0.076	4.50		0.023		

\*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
6/1/2020	8.5	0.53	0.51	0.84	1.18	1.08	3.28	3.44	0.08	0.60	0.77
6/2/2020	8.6	0.57	0.47	0.89	1.23	1.12	3.25	3.47	0.08	0.60	0.78
6/3/2020	7.4	0.59	0.47	0.87	1.22	1.13	3.24	3.44	0.08	0.60	0.76
6/4/2020	8.2	0.52	0.44	0.92	1.22	1.11	3.24	3.41	0.09	0.60	0.77
6/5/2020	8.5	0.53	0.43	0.92	1.22	1.11	3.24	3.44	0.09	0.60	0.76
6/6/2020	8.2	0.51	0.41	0.94	1.21	1.10	3.24	3.44	0.09	0.60	0.75
6/7/2020	8.5	0.49	0.39	0.98	1.22	1.11	3.24	3.44	0.09	0.60	0.75
6/8/2020	9.0	0.18	0.27	1.20	1.20	1.09	3.24	3.44	0.10	0.60	0.76
6/9/2020	9.2	0.32	0.14	1.30	1.25	1.07	3.24	3.44	0.08	0.60	0.75
6/10/2020	7.7	0.44	0.21	1.22	1.26	1.10	3.24	3.45	0.05	0.60	0.72
6/11/2020	7.1	0.62	0.30	1.08	1.30	1.12	3.24	3.44	0.07	0.61	0.67
6/12/2020	6.9	0.54	0.34	1.11	1.24	1.10	3.24	3.44	0.06	0.62	0.69
6/13/2020	7.2	0.56	0.35	1.09	1.28	1.14	3.24	3.44	0.08	0.63	0.70
6/14/2020	7.9	0.51	0.36	1.06	1.26	1.14	3.23	3.43	0.07	0.63	0.75
6/15/2020	8.8	0.44	0.33	1.07	1.25	1.13	3.23	3.42	0.07	0.63	0.61
6/16/2020	9.3	0.39	0.29	1.14	1.23	1.10	3.23	3.42	0.08	0.63	0.18
6/17/2020	10.0	0.41	0.27	1.12	1.24	1.11	3.23	3.43	0.06	0.63	0.69
6/18/2020	9.9	0.57	0.34	0.98	1.26	1.12	3.23	3.43	0.09	0.63	0.76
6/19/2020	10.0	0.66	0.44	0.88	1.24	1.12	3.23	3.44	0.08	0.63	0.76
6/20/2020	9.8	0.72	0.49	0.83	1.25	1.12	3.23	3.42	0.09	0.63	0.77
6/21/2020	9.3	0.70	0.53	0.80	1.23	1.12	3.23	3.43	0.08	0.63	0.76
6/22/2020	10.0	0.64	0.49	0.82	1.23	1.12	3.23	3.42	0.08	0.63	0.78
6/23/2020	9.4	0.52	0.45	0.88	1.21	1.11	3.23	3.43	0.08	0.63	0.80
6/24/2020	9.5	0.50	0.40	0.94	1.24	1.12	3.23	3.44	0.08	0.63	0.81
6/25/2020	11.3	0.54	0.39	0.92	1.23	1.13	3.23	3.42	0.09	0.62	0.82
6/26/2020	10.2	0.63	0.46	0.82	1.23	1.12	3.23	3.42	0.10	0.61	0.82
6/27/2020	9.4	0.70	0.49	0.81	1.23	1.12	3.23	3.43	0.09	0.60	0.77
6/28/2020	10.5	0.69	0.53	0.79	1.22	1.12	3.23	3.42	0.09	0.60	0.75
6/29/2020	11.8	0.63	0.51	0.80	1.21	1.13	3.23	3.42	0.09	0.60	0.77
6/30/2020	11.9	0.63	0.50	0.81	1.20	1.12	3.23	3.42	0.09	0.60	0.77
Avg	9.1	0.54	0.40	0.96	1.23	1.11	3.24	3.43	0.08	0.61	0.73
Min	6.9	0.18	0.14	0.79	1.18	1.07	3.23	3.41	0.05	0.60	0.18
Max	11.9	0.72	0.53	1.30	1.30	1.14	3.28	3.47	0.10	0.63	0.82





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
6/1/2020	53.0	2,360	0.53	1254	28.9	24.6	8.3	440	1.02	450.47	1,704.12	10.5	6.00	Y
6/2/2020	46.6	2,684	0.57	1541	29.0	24.1	8.4	435	1.08	469.12	2,009.81	10.8	6.00	Y
6/3/2020	46.8	2,673	0.59	1569	28.6	23.3	7.2	493	1.11	545.59	2,114.40	10.9	6.00	Y
6/4/2020	47.9	2,612	0.52	1353	29.0	23.5	8.0	450	1.07	482.47	1,835.31	10.6	6.00	Y
6/5/2020	54.5	2,297	0.53	1223	29.1	23.9	8.2	443	1.09	484.13	1,706.75	10.7	6.00	Y
6/6/2020	66.6	1,878	0.51	952	29.0	23.7	8.1	444	1.09	484.79	1,436.46	10.9	6.00	Y
6/7/2020	68.3	1,830	0.49	891	29.0	24.6	8.2	446	1.09	483.65	1,374.31	11.1	6.00	Y
6/8/2020	68.4	1,829	0.18	334	29.1	24.1	8.9	409	1.01	412.71	746.48	11.9	6.00	Y
6/9/2020	60.2	2,077	0.32	659	29.1	23.8	9.0	402	1.02	411.90	1,071.33	12.7	6.00	Y
6/10/2020	52.4	2,389	0.44	1051	29.0	24.1	7.6	480	1.07	514.59	1,565.99	12.9	6.00	Y
6/11/2020	45.6	2,740	0.62	1695	28.9	24.1	6.8	536	1.02	549.06	2,244.09	12.9	6.00	Y
6/12/2020	45.3	2,762	0.54	1495	28.9	24.7	6.6	556	1.07	595.93	2,090.90	13.0	6.00	Y
6/13/2020	53.6	2,333	0.56	1309	28.9	24.5	6.9	533	1.11	589.70	1,898.43	13.0	6.00	Y
6/14/2020	54.3	2,302	0.51	1168	29.0	24.3	7.7	476	1.09	516.13	1,683.70	13.1	6.00	Y
6/15/2020	54.3	2,302	0.44	1015	29.0	24.1	8.4	432	1.09	471.40	1,486.59	13.5	6.00	Y
6/16/2020	52.2	2,397	0.39	930	29.0	23.2	9.2	390	1.06	412.58	1,342.58	13.8	6.00	Y
6/17/2020	52.2	2,397	0.41	978	29.1	24.4	9.8	372	1.08	401.56	1,379.52	14.0	6.00	Y
6/18/2020	59.3	2,111	0.57	1212	29.2	24.0	9.8	372	1.09	406.79	1,618.34	14.2	6.00	Y
6/19/2020	65.5	1,910	0.66	1264	29.3	23.8	9.9	366	1.06	389.94	1,653.53	14.2	6.00	Y
6/20/2020	77.3	1,618	0.72	1171	29.2	23.8	9.5	381	1.10	418.54	1,589.90	14.2	6.00	Y
6/21/2020	77.3	1,618	0.70	1137	29.1	23.7	9.2	392	1.08	422.81	1,560.25	14.1	6.00	Y
6/22/2020	68.6	1,824	0.64	1176	29.2	24.3	9.8	374	1.09	409.03	1,585.29	14.1	6.00	Y
6/23/2020	59.5	2,104	0.52	1102	29.2	24.4	9.3	396	1.08	427.26	1,529.43	13.9	6.00	Y
6/24/2020	53.9	2,320	0.50	1158	29.1	24.4	9.4	392	1.08	422.93	1,580.51	13.8	6.00	Y
6/25/2020	61.4	2,038	0.54	1103	29.2	24.2	11.0	333	1.06	352.17	1,455.61	13.6	6.00	Y
6/26/2020	67.5	1,854	0.63	1166	29.0	22.5	10.1	350	1.06	370.15	1,536.46	13.8	6.00	Y
6/27/2020	73.7	1,697	0.70	1184	29.1	23.9	9.2	393	1.08	424.26	1,608.75	13.7	6.00	Y
6/28/2020	73.8	1,695	0.69	1167	29.0	23.8	10.3	350	1.09	382.34	1,548.84	13.6	6.00	Y
6/29/2020	71.4	1,751	0.63	1102	29.2	23.7	11.7	310	1.10	340.56	1,442.70	13.7	6.00	Y
6/30/2020	69.8	1,792	0.63	1130	29.3	21.4	11.7	296	1.10	325.13	1,454.83	13.8	6.00	Y
Avg	60.0	2,140	0.54	1,150	29.1	23.9	8.9	415	1.07	445.59	1,595.17	12.9	6.00	NA
Min	45.3	1,618	0.18	334	28.6	21.4	6.6	296	1.01	325.13	746.48	10.5	6.00	NA
Max	77.3	2,762	0.72	1,695	29.3	24.7	11.7	556	1.11	595.93	2,244.09	14.2	6.00	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: Date	0390 Bangor Twp.					0400 Bangor Monitor Dist.			0470 Bay City							0485 Bay County				0517 Beaver Rd	0518 Beaver Twp		2180 Essexville	
	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	22	24	26	29	30	32
6/1/2020																								
6/2/2020	0.52	0.43	0.54	0.83	1.04				0.65	0.22	0.43	0.68	0.34	0.84	0.54	0.97	0.98	0.99	0.88	0.62			0.36	0.97
6/3/2020																								
6/4/2020						0.88	1.06		0.69	0.23	0.49	0.52	0.34	0.79	0.64									
6/5/2020																								
6/6/2020																								
6/7/2020																								
6/8/2020																								
6/9/2020				0.85	0.98											0.73	0.75	0.69	0.77	0.78			0.58	0.89
6/10/2020									0.52	0.17	0.52	0.70	0.27	0.93	0.61									
6/11/2020		0.49	0.65	0.38	1.06																0.87			
6/12/2020																								
6/13/2020																								
6/14/2020																								
6/15/2020																								0.83
6/16/2020		0.53	0.67	0.43	1.02			1.00	0.77	0.22	0.58	0.72	0.29	0.94	0.69									
6/17/2020																								
6/18/2020									0.74	0.23	0.57	0.71	0.22	0.98	0.57									
6/19/2020																								
6/20/2020																								
6/21/2020																								
6/22/2020																								
6/23/2020																								0.95
6/24/2020									0.69	0.28	0.55	0.78	0.38	1.03	0.67									
6/25/2020																								
6/26/2020																								
6/27/2020																								
6/28/2020																								
6/29/2020																								0.89
6/30/2020									0.78	0.33	0.54	0.67	0.29	0.90	0.32									
Average	0.52			0.71				0.98						0.56					0.82		0.87		0.47	0.91
Min	0.52			0.38				0.88						0.17					0.62		0.87		0.36	0.83
Max	0.52			1.06				1.06						1.03					0.99		0.87		0.58	0.97

MONITORING STATION ADDRESSES

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>1. Sample station at corner of 5758 M-25 &amp; F</li> <li>3. Bangor Fire Station, 3921 Wheeler</li> <li>4. BCDWS Admin. Bldg. 3933 Patterson Rd.</li> <li>5. 7-11, 3543 S. Old Kawkawlin Rd.</li> <li>6. Admiral Petroleum, 314 S Euclid Ave.</li> <li>7. Sequin Lumber, 3881 Euclid Ave</li> <li>9. B's Boutique, 2981 Midland Rd</li> <li>10. Little Caesars, 3475 E North Union Rd</li> </ul> | <ul style="list-style-type: none"> <li>11. Number 1 Fire Station, 1401 Center Ave</li> <li>12. Number 2 Fire Station, 1000 Fremont Ave</li> <li>13. Skizak's Sport Shop, 807 Salzburg Ave</li> <li>14. Number 4 Fire Station, 212 S. Dean St</li> <li>15. Number 5 Fire Station, 1209 Smith St</li> <li>16. Bay City Hall, 301 Washington Ave</li> <li>17. Skipper Buds Marina, 1809 S Water St</li> <li>18. Bay Valley Animal Hospital 6015 WS Saginaw Rd</li> </ul> | <ul style="list-style-type: none"> <li>19. Dore's M-84 Party Store, 6183 WS Saginaw Rd</li> <li>20. Pump Station #13, 6000 WS Saginaw Rd</li> <li>22. Duce's Char House, 432 N. Tuscola Rd</li> <li>24. Little Learners Daycare, 1694 Cass Ave.</li> <li>26. Wieland Contracting, 2443 S Mackinaw Rd</li> <li>29. Sample Station, 2515 S. 11 Mile Rd</li> <li>30. Sample Station, 340 W. Beaver Rd</li> <li>32. Essexville City Hall, 1107 Woodside Ave</li> </ul> |
|---|---|--|



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
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
6/1/2020																								
6/2/2020			0.66	0.67	0.53						0.62									0.69	0.13	0.73	0.48	0.59
6/3/2020																								
6/4/2020	0.81	0.90				1.02	0.85		0.96				1.01	0.75	0.78	0.59		0.85	0.41					
6/5/2020																								
6/6/2020																								
6/7/2020																								
6/8/2020																								
6/9/2020											0.68										0.39	0.78	0.69	
6/10/2020																								
6/11/2020			0.46	0.51	0.45			0.74	0.65							0.86								
6/12/2020																								
6/13/2020																								
6/14/2020																								
6/15/2020																								
6/16/2020			0.57	0.73	0.62								0.92	0.69	0.68									
6/17/2020																								
6/18/2020																								
6/19/2020																								
6/20/2020																								
6/21/2020																								
6/22/2020																								
6/23/2020																								
6/24/2020																								
6/25/2020			0.66	0.71	0.54																			
6/26/2020																								
6/27/2020																								
6/28/2020																								
6/29/2020																								
6/30/2020																								
Average	0.86		0.59			0.87			0.81		0.65		0.81			0.73		0.63		0.69		0.53		0.59
Min	0.81		0.45			0.74			0.65		0.62		0.68			0.59		0.41		0.69		0.13		0.59
Max	0.90		0.73			1.02			0.96		0.68		1.01			0.86		0.85		0.69		0.78		0.59



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			
				June, 2020			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.52	1	1	0	0
BAY	Bangor Township	0390	0.71	10	14	0	0
BAY	Bangor-Monitor Dist.	0400	0.98	3	3	0	0
BAY	Bay City	0470	0.56	40	49	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.82	10	10	0	0
BAY	Beaver Road Area	0517	0.87	1	1	0	0
BAY	Beaver Township	0518	0.47	2	2	0	0
BAY	Essexville	2180	0.91	4	5	0	0
BAY	Fraser Township	2465	0.86	2	2	0	0
BAY	Hampton Township	2960	0.59	10	12	0	0
BAY	Kawkawlin Township	3565	0.87	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.81	2	2	0	0
BAY	Merritt Township	4280	0.65	2	2	0	0
BAY	Monitor Township	4440	0.81	6	6	0	0
BAY	City of Pinconning	5330	0.73	2	2	0	0
BAY	Pinconning Township	5335	0.63	2	2	0	0
BAY	Portsmouth Township	5540	0.69	1	1	0	0
BAY	Williams Township	7125	0.53	6	6	0	0
Tuscola	Wisner	7134	0.59	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.71	mg/L			
1. Total distribution samples			124				
2. Total distribution samples with detectable free cl2 residual			124				
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%				

