

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of April 2019

Flint Water Plant
NAME OF WATER SYSTEM

2310
WSSN

Genesee
COUNTY

Robert Jones
CERTIFIED OPERATOR

D-1
CLASSIFICATION


SIGNATURE OF APPROPRIATE OFFICIAL

TREATMENT RATE AND FILTER DATA

1. Treatment Rate, Maximum 11.90 Million Gallons Per Day
2. Treatment Rate, Approved Rated Plant Capacity 36 Million Gallons per Day
3. Average Filter Run N/A Hours, Average Head Loss N/A Feet
4. Average Filtration Rate N/A Gallons per Square Ft. per Minute
5. Maximum Filtration Rate N/A Gallons per Square Ft. per Minute
6. Average Wash Water Use N/A percent of Treated Water

CHEMICAL DATA

7. Sodium Hypochlorite on hand at CS2 2033 gal.: Estimated supply 34 days
8. Sodium Hypochlorite on hand at outstations 90 gal: Estimated supply 18 days.
9. Phosphoric Acid on hand 1067 gal.: Estimated supply 51 days
9. Sodium Hydroxide on hand 3458 gal.: Estimated supply 27 days

Remarks:

Submit to: MDEQ - Office of Drinking Water & Municipal Assistance
LANSING DISTRICT OFFICE
525 West Allegan Street, 1st Floor South
(Constitution Hall)
PO Box 30242
Lansing, MI 48909-7742



Fluoridation & Chlorination WSSN 2310 **Apr-19**

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l					Chlorine Residual mg/l				
					Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCT	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap			
		Raw	Tap	Dist							Free	Free	Free	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.61	0.63		1.07			1.0						1.8	
2	0.60	0.66		1.04			1.1						1.7	
3	0.60	0.65		1.02			1.1						1.7	
4	0.53	0.61		0.99			1.0						1.7	
5	0.46	0.46		1.06			1.1						1.7	
6	0.51	0.50		1.06			1.1						1.7	
7	0.70	0.68		0.99			1.1						1.7	
8	0.63	0.70		0.94			1.0						1.6	
9	0.60	0.63		1.00			1.1						1.6	
10	0.62	0.67		1.01			1.1						1.7	
11	0.58	0.59		1.03			1.1						1.7	
12	0.52	0.52		1.05			1.1						1.7	
13	0.59	0.61		1.06			1.1						1.7	
14	0.61	0.61		1.05			1.1						1.7	
15	0.60	0.63		1.03			1.1						1.7	
16	0.59	0.63		0.93			1.2						1.7	
17	0.72	0.71		0.93			1.1						1.6	
18	0.75	0.79		1.04			1.1						1.7	
19	0.56	0.55		1.09			1.0						1.7	
20	0.66	0.64		1.10			1.1						1.7	
21	0.67	0.66		1.02			1.1						1.7	
22	0.65	0.64		1.08			1.0						1.7	
23	0.60	0.64		1.13			1.1						1.6	
24	0.67	0.66		1.10			1.1						1.7	
25	0.61	0.61		1.03			1.1						1.7	
26	0.61	0.61		1.05			1.1						1.7	
27	0.64	0.67		1.13			1.1						1.7	
28	0.71	0.69		1.04			1.1						1.8	
29	0.65	0.68		1.04			1.2						1.7	
30	0.68	0.68		0.96			1.1						1.7	
AVG		0.63		1.04			1.1						1.7	
MAX		0.79		1.13			1.2						1.8	
MIN		0.46		0.93			1.0						1.6	



Chemical Analyses

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D A T E	pH		Total Hardness as CaCO ₃ mg/l		Total Alkalinity as CaCO ₃ mg/l		NonCarbonate Hardness as CaCO ₃ mg/l		Iron mg/L		Calcium Ca ²⁺ mg/l		Magnesium as Mg ²⁺ mg/l		Chloride as Cl ⁻ mg/l	
	CSII	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap
	29	30	31	32	33	34	35	36	37	38.00	39	40	41	42	43	44
1	7.29	7.44	108	108	88	88	38	38	0	0.01	28.1	28.1	9.2	9.2	16	16
2	7.18	7.39	106	108	###	90	36.0	38	0.0	0.01	28.1	28.1	8.7	9.2	14.0	14
3	7.32	7.43		108	86	86		38	0.03	0.02	28.1	28.1	9.2	9.2	14	14
4	7.24	7.47		104	88	88		36	0.01	0.01	28.9	28.9	8.7	8.7	13	13
5	7.15	7.38		110	86	86		38	0.01	0.01	28.9	28.9	9.2	9.2	14	14
6	7.16	7.47		106	90	90		36	0.01	0.03	28.1	28.1	8.7	8.7	15	15
7	7.27	7.50		108	88	88		36	0.03	0.02	28.9	28.9	8.7	8.7	14	14
8	7.21	7.46		106	86	86		36	0.01	0.02	28.1	28.1	8.7	8.7	13	13
9	7.23	7.47	106	108	84	84	36	38	0.04	0.05	28.1	28.1	8.7	9.2	13	14
10	7.21	7.47		108	88	88		38	0.01	0.01	28.1	28.1	9.2	9.2	13	13
11	7.23	7.46		108	86	86		36	0.02	0.01	28.9	28.9	8.7	8.7	14	14
12	7.18	7.46		108	86	86		38	0	0.01	28.1	28.1	9.2	9.2	13	13
13	7.40	7.53		104	88	88		34	0.02	0.02	28.1	28.1	8.3	8.3	14	14
14	7.26	7.56		108	90	90		36	0.01	0.00	28.9	28.9	8.7	8.7	13	13
15	7.26	7.48		108	88	88		38	0.02	0.00	28.1	28.1	9.2	9.2	13	13
16	7.30	7.53	104	104	84	86	32	36	0.02	0.01	28.9	27.3	7.8	8.7	12	13
17	7.32	7.55		106	88	88		36	0.01	0.01	28.1	28.1	8.7	8.7	13	13
18	7.37	7.52		104	88	88		34	0.01	0.01	28.1	28.1	8.3	8.3	13	13
19	7.32	7.53		106	86	86		36	0.02	0.01	28.1	28.1	8.7	8.7	13	13
20	7.21	7.57		106	86	86		38	0	0.01	27.3	27.3	9.2	9.2	13	13
21	7.31	7.62		104	84	84		36	0.01	0.01	27.3	27.3	8.7	8.7	13	13
22	7.31	7.55		106	84	84		38	0.01	0.01	27.3	27.3	9.2	9.2	14	14
23	7.25	7.51	104	102	80	88	36	34	0.01	0.02	27.3	27.3	8.7	8.3	13	14
24	7.29	7.55		102	82	82		36	0.01	0.01	26.5	26.5	8.7	8.7	13	13
25	7.23	7.43		104	86	86		36	0.01	0.02	27.3	27.3	8.7	8.7	13	13
26	7.16	7.49		108	84	84		40	0.03	0.02	27.3	27.3	9.7	9.7	12	12
27	7.19	7.68		106	84	84		36	0.02	0.01	28.1	28.1	8.7	8.7	14	14
28	7.17	7.58		106	82	82		36	0	0.02	28.1	28.1	8.7	8.7	13	13
29	7.30	7.56		106	82	82		36	0.01	0.01	28.1	28.1	8.7	8.7	13	13
30	7.20	7.47	104	104	80	82	36	38	0.04	0.01	27.3	26.5	8.7	9.2	13	13
AVG	7.25	7.50		106	86	86		37		0.01	27.9	27.9	8.9	8.9	13	13
MAX	7.40	7.68		110	90	90		40		0.05	28.9	28.9	9.7	9.7	16.0	16.0
MIN	7.15	7.38		102	82	82		34		0.00	26.5	26.5	8.3	8.3	12.0	12.0



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D A T E	Total Coliform										Standard Plate Count	Conductivity (mS)	Temp deg.C	Color		Odor	
	Plant Tap					Dort								Raw	Tap	Raw	Tap
	60	61	62	63	64	65	66	67	68	69							
1						2/0						0.26	6.8				
2						2/0						0.26	7.3				
3						2/0						0.26	7.0				
4						2/0						0.26	7.5				
5						2/0						0.26	8.3				
6						2/0						0.25	7.9				
7						2/0						0.25	7.3				
8						2/0						0.25	7.1				
9						2/0						0.25	7.2				
10						2/0						0.24	6.9				
11						2/0						0.26	6.4				
12						2/0						0.25	6.6				
13						2/0						0.25	6.8				
14						2/0						0.25	7.0				
15						2/0						0.25	6.7				
16						2/0						0.25	7.0				
17						2/0						0.25	7.2				
18						2/0						0.24	7.9				
19						2/0						0.24	7.0				
20						2/0						0.24	7.2				
21						2/0						0.24	7.5				
22						2/0						0.24	7.6				
23						2/0						0.23	7.1				
24						2/0						0.23	7.5				
25						2/0						0.23	7.2				
26						2/0						0.23	7.3				
27						2/0						0.23	7.4				
28						2/0						0.23	7.4				
29						2/0						0.23	7.2				
30						2/0						0.23	7.6				
AVG												0.24	7.2				
MAX												0.26	8.3				
MIN												0.23	6.4				



Distribution System Monitoring WSSN 2310

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DATE	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l																			Chlorine only sites mg/l					Number of Samples										
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29		30	21	22	23	24	25				
1	1.43	1.59	1.56	1.54	1.58	1.34															1.44					1.44						8			
2							1.60	1.70	1.28	1.70	1.55	1.65	1.40								1.49						1.45					9			
3														1.60	1.51	1.77	1.57	1.35	1.01					1.79				1.77				8			
4	1.28	1.67	1.61	1.60	1.66											1.65	1.60	1.50	0.95						1.69							6			
5																																	5		
6																																	0		
7																																	0		
8	1.46	1.60	1.56	1.54	1.75	1.38																											7		
9							1.45	1.68	1.34	1.69	1.52	1.28									1.52						1.43	1.15					9		
10														1.67	1.51	1.64	1.71	1.48	0.92										1.82				8		
11	1.50	1.78	1.60	1.59	1.79											1.52	1.70	1.43	0.95											1.75			8		
12																																	6		
13																																		0	
14																																		0	
15	1.42	1.59	1.56	1.53	1.79	1.60																					1.47							8	
16							1.62	1.83	1.25	1.76	1.49	1.23									1.49						1.41							8	
17														1.67	1.40	1.58	1.61	1.15	1.12															8	
18	1.38	1.59	1.46	1.36	1.77											1.65	1.62	1.39													1.50			8	
19																															1.58			5	
20																																		0	
21																																		0	
22	1.39	1.66	1.46	1.48	1.78	1.45																					1.39							8	
23							1.67	1.79	1.19	1.71	1.43	1.19									1.43													8	
24														1.65	1.52	1.72	1.71	1.18	0.98															8	
25	1.50				1.57	1.74																									1.76			8	
26																																		7	
27																																			0
28																																			0
29	1.46																																	0	
30							1.59	1.48	1.83	1.22	1.80	1.51	1.29								1.54						1.48	1.19						3	
Monthly Cl ₂ Avg.											1.53																								
Total Samples											136																								

