

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of August 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 11.34 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 2906 gal.: Estimated supply 25 days
8. Sodium Hypochlorite on hand at outstations 192 gal: Estimated supply 17 days.
9. Phosphoric Acid on hand 307 gal.: Estimated supply 15 days
9. Sodium Hydroxide on hand 3981 gal.: Estimated supply 28 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

Aug-19

D A T E	Fluoride Applied F ⁻ mg/l			Fluoride Analyses mg/l		Chlorine App. Mg/l		Chlorine Residual mg/l								
	14	15		16	17	18	19	20	21	Sta II		3MG Well		Tap		
		Raw	Tap							Dist	Free	Free	Free	Free		
1		0.71	0.74			1.23					0.9				1.6	
2		0.65	0.64			1.23					0.9				1.8	
3		0.73	0.71			1.19					0.9				1.7	
4		0.69	0.72			1.18					1.0				1.7	
5		0.79	0.83			1.17					0.8				1.7	
6		0.71	0.78			1.20					0.8				1.7	
7		0.76	0.81			1.34					0.8				1.7	
8		0.68	0.68			1.30					0.8				1.6	
9		0.67	0.67			1.29					0.9				1.7	
10		0.63	0.63			1.48					0.8				1.6	
11		0.64	0.64			1.54					0.8				1.6	
12		0.64	0.64			1.69					0.8				1.6	
13		0.63	0.63			1.63					0.9				1.7	
14		0.64	0.64			1.45					0.8				1.7	
15		0.73	0.73			1.40					0.8				1.7	
16		0.70	0.66			1.41					0.8				1.7	
17		0.65	0.68			1.53					0.8				1.7	
18		0.70	0.72			1.37					0.8				1.6	
19		0.89	0.79			1.36					0.8				1.6	
20		0.65	0.67			1.29					0.8				1.6	
21		0.81	0.72			1.30					0.8				1.7	
22		0.63	0.63			1.31					0.8				1.7	
23		0.64	0.64			1.43					0.8				1.7	
24		0.66	0.66			1.37					0.8				1.7	
25		0.65	0.65			1.40					0.8				1.6	
26		0.65	0.65			1.43					0.8				1.7	
27		0.68	0.67			1.30					0.8				1.7	
28		0.62	0.68			1.25					0.8				1.7	
29		0.70	0.72			1.51					0.8				1.7	
30		0.82	0.87			1.39					0.8				1.7	
31		0.87	0.82			1.41					0.8				1.7	
AVG			0.70			1.37					0.8				1.7	
MAX			0.87			1.69					1.0				1.8	
MIN			0.63			1.17					0.8				1.6	



Chemical Analyses

WSSN 2310

Aug-19

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	7.35	7.58		104		80		36	0.03	0.02		27.3		8.7		16
2	7.40	7.65		104		82		34	0.0	0.01		28.1		8.3		16
3	7.38	7.63		104		82		36	0.01	0.01		27.3		8.7		15
4	7.35	7.64		102		80		34	0.01	0.03		27.3		8.3		16
5	7.45	7.54		100		82		30	0.02	0.01		28.1		7.3		17
6	7.23	7.55	98	102	80	84	28	30	0.02	0.00	28.1	28.9	6.8	7.3	18	18
7	7.31	7.62		102		82		30	0.02	0.02		28.9		7.3		18
8	7.61	7.70		102		84		30	0.01	0.01		28.9		7.3		18
9	7.40	7.67		102		84		32	0	0.01		28.1		7.8		16
10	7.58	7.32		106		82		34	0.02	0.01		28.9		8.3		17
11	7.34	7.62		104		86		32	0.02	0.02		28.9		7.8		18
12	7.23	7.56		104		84		36	0.02	0.01		27.3		8.7		16
13	7.21	7.54	100	104	80	84	32	36	0.01	0.03	27.3	27.3	7.8	8.7	15	16
14	7.26	7.42		102		82		32	0.01	0.01		28.1		7.8		16
15	7.24	7.29		96		72		26	0	0.01		28.1		6.3		14
16	7.46	7.61		102		86		30	0.01	0.01		28.9		6.3		16
17	7.15	7.49		98		84		28	0.01	0.01		28.1		6.87.3		16
18	7.22	7.51		104		84		32	0.02	0.01		28.9		7.8		18
19	7.43	7.53	100	104	80	84	30	36	0	0.01	28.1	27.3	7.3	8.7	18	18
20	7.29	7.45		102		80		30	0	0.01		28.9		7.3		17
21	7.20	7.53		100		86		30	0	0.01		28.1		7.3		17
22	7.27	7.57		102		86		32	0.01	0.01		28.1		7.8		16
23	7.05	7.37		102		84		32	0.01	0.01		28.1		7.8		17
24	7.15	7.41		106		84		36	0.01	0.01		28.1		8.7		16
25	7.19	7.41		104		84		34	0.01	0.03		28.1		8.3		16
26	7.37	7.68		102		82		32	0.02	0.01		28.1		7.8		15
27	7.48	7.57	104	104	88	84	34	34	0.02	0.02	28.1	28.1	8.3	8.3	16	16
28	7.33	7.63		104		86		32	0.01	0.01		28.1		7.8		15
29	7.24	7.64		102		86		30	0.01	0.01		28.9		7.3		16
30	7.31	7.67		102		84		30	0.02	0.02		28.9		7.3		16
31	7.40	7.60		104		86		32	0.01	0.01		28.9		7.8		16
AVG	7.32	7.55		103		83		32		0.01		28.2		7.8		16
MAX	7.61	7.70		106		86		36		0.03		28.9		8.7		18.0
MIN	7.05	7.29		96		72		26		0.00		27.3		6.3		14.0



Distribution System Monitoring WSSN 2310

Aug-19

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	0.95	1.29	1.24	1.89															0.80			1.64								1.19		7							
2												0.83			1.50	1.53			1.03							1.66				1.49	6								
3																															0								
4																								1.34								0							
5	1.07	1.66		1.68	1.65	1.26																									6								
6							0.76	1.54	1.01	1.44	1.16										1.15						0.82				7								
7														1.36	0.89	1.01	1.46	0.91	0.82						1.41			1.27			8								
8	0.76	1.24	1.28	1.71	1.13	1.13	1.20	1.33	1.33	1.31	1.24	0.64	1.38	0.96	1.20	1.28	0.72	0.80	0.65	1.08	1.61	1.07	1.36							22									
9												0.87			1.50	1.55		1.03							1.60				0.92	6									
10																															0								
11																															0								
12	0.95	1.56		1.31	1.82	1.28															1.16						0.79				7								
13							0.89	1.50	1.04	1.44	1.26	0.56															0.90				8								
14														1.38	1.13	1.47	1.46	0.99	0.90						1.52			1.63			8								
15	0.75	1.30	1.29	1.71															0.58			1.56							1.10		7								
16																															0								
17																															0								
18																															0								
19	0.90	1.53		1.16	1.67	1.29																									0								
20														1.32							0.61										6								
21							0.78	1.47	1.47	1.33	1.18	0.49															0.89				8								
22	0.86	1.25	1.29	1.80										1.67	0.75	1.26	1.38	1.03	0.89	0.80						1.03		1.48			8								
23													0.78			1.32	1.47		1.04			1.65			1.54				1.05		8								
24																															6								
25																															0								
26	0.79	1.60		1.28	1.43	1.41																					1.14				0								
27							0.83	1.59	1.06	1.51	1.25	0.37									1.17			1.30							7								
28														1.46	1.09	1.50	1.51	1.03	1.01									0.84			8								
29	0.63	1.20	1.25	1.44																0.76		1.55							1.68		8								
30												1.07							0.82										1.07		7								
31																														0.80	5								
		Monthly Cl₂ Avg.																																				1.22	
		Total Samples																																				144	

