

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of July 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 13.95 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 2837 gal.: Estimated supply 29 days
8. Sodium Hypochlorite on hand at outstations 190 gal: Estimated supply 17 days.
9. Phosphoric Acid on hand 778 gal.: Estimated supply 37 days
9. Sodium Hydroxide on hand 3719 gal.: Estimated supply 26 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

Jul-19

DATE	Fluoride Applied F mg/l	Fluoride Analyses mg/l				Chlorine App. Mg/l		Chlorine Residual mg/l				
		Raw	Tap	Dist	Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCI ⁻	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap	
								Free	Free	Free	Free	
1	0.66	0.71			1.17			0.9				1.5
2	0.70	0.78			1.25			0.9				1.7
3	0.65	0.66			1.21			0.7				1.6
4	0.74	0.70			1.19			0.8				1.6
5	0.63	0.63			1.24			0.8				1.5
6	0.68	0.74			1.42			0.9				1.7
7	0.66	0.69			1.46			0.8				1.7
8	0.83	0.75			1.59			0.8				1.6
9	0.80	0.78			1.60			0.8				1.7
10	0.73	0.73			1.57			0.8				1.7
11	0.67	0.67			1.34			0.9				1.6
12	0.67	0.67			1.53			0.8				1.7
13	0.73	0.76			1.45			0.6				1.6
14	0.66	0.73			1.47			0.8				1.7
15	0.80	0.82			1.50			0.8				1.6
16	0.77	0.82			1.51			0.8				1.7
17	0.72	0.67			1.43			0.7				1.6
18	0.66	0.70			1.37			0.8				1.7
19	0.67	0.67			1.31			0.7				1.6
20	0.74	0.78			1.31			0.8				1.6
21	0.68	0.73			1.44			0.8				1.5
22	0.69	0.69			1.37			0.9				1.7
23	0.65	0.64			1.30			0.9				1.7
24	0.63	0.72			1.30			0.9				1.7
25	0.74	0.69			1.40			0.9				1.8
26	0.57	0.60			1.45			0.9				1.7
27	0.74	0.70			1.44			0.7				1.7
28	0.75	0.78			1.44			0.9				1.7
29	0.62	0.69			1.37			0.8				1.6
30	0.66	0.71			1.39			0.8				1.7
31	0.70	0.75			1.23			0.9				1.6
AVG		0.71			1.39			0.8				1.6
MAX		0.82			1.60			0.9				1.8
MIN		0.60			1.17			0.6				1.5



Chemical Analyses

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DATE	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
1	7.29	7.55	104		84		32	0.01	0.01		28.9		7.8		17	
2	7.23	7.56	100	102	80	82	30.0	34	0.0	0.03	28.1	27.3	8.3	7.3	16.0	17
3	7.58	7.62		102		86		32	0.01	0.02	28.1	28.1		7.8	16	
4	7.24	7.60		102		86		30	0.02	0.02	28.9	28.9		7.3	16	
5	7.31	7.68		100		86		30	0.02	0.01	28.1	28.1		7.3	19	
6	7.39	7.57		106		86		36	0.02	0.01	28.1	28.1		8.7	16	
7	7.45	7.68		106		86		36	0.02	0.01	28.1	28.1		8.7	16	
8	7.53	7.58		104		82		32	0.01	0.01	28.9	28.9		7.8	17	
9	7.57	7.65	102	100	80	84	32	30	0.01	0.02	28.1	28.1	7.8	7.3	17	17
10	7.26	7.57		104		86		34	0.03	0.01	28.1	28.1		8.3	17	
11	7.64	7.81		106		86		36	0.02	0.01	28.1	28.1		8.7	16	
12	7.55	7.79		106		86		38	0.02	0.02	27.3	27.3		9.2	16	
13	7.45	7.72		104		84		32	0.01	0.02	28.9	28.9		7.8	17	
14	7.43	7.73		100		88		28	0.01	0.01	28.9	28.9		6.8	18	
15	7.49	7.74		108		84		36	0	0.01	28.9	28.9		8.7	17	
16	7.47	7.79	106	106	80	84	34	36	0	0.00	28.9	28.1		8.7	16	17
17	7.50	7.71		102		84		32	0.01	0.01	28.1	28.1		7.8	16	
18	7.46	7.76		104		84		34	0.03	0.02	28.1	28.1		8.3	18	
19	7.50	7.75		102		80		32	0.02	0.01	28.1	28.1		7.8	17	
20	7.38	7.76		106		86		36	0.02	0.01	28.1	28.1		8.7	16	
21	7.49	7.69		106		86		38	0.02	0.02	27.3	27.3		9.2	16	
22	7.50	7.74		104		82		34	0.02	0.03	28.1	28.1		8.3	16	
23	7.52	7.77	102	102	80	84	32	32	0.03	0.01	28.1	28.1	7.8	7.8	15	15
24	7.49	7.72		102		86		32	0.01	0.02	28.1	28.1		7.8	16	
25	7.34	7.62		102		82		30	0.07	0.03	28.9	28.9		7.3	17	
26	7.24	7.52		104		84		34	0.02	0.03	28.1	28.1		8.3	16	
27	7.36	7.62		104		82		34	0	0.02	28.1	28.1		8.3	16	
28	7.23	7.62		102		84		30	0.01	0.02	28.9	28.9		7.3	16	
29	7.39	7.62		100		82		32	0.01	0.02	27.3	27.3		7.8	16	
30	7.42	7.65	104	102	84	82	36	34	0	0.00	27.3	27.3	8.7	8.3	15	16
31	7.39	7.67		102		84		34	0.03	0.02	27.3	27.3		8.3	16	
AVG	7.42	7.67		103		84		33		0.02	28.2	28.2		8.0	17	
MAX	7.64	7.81		108		88		38		0.03	28.9	28.9		9.2	19.0	
MIN	7.23	7.52		100		80		28		0.00	27.3	27.3		6.8	15.0	



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D A T E	Total Coliform					Standard Plate Count		Conductivity (ms)	Temp deg C	Color			Odor				
	Plant Tap					Raw Tap	Raw Tap			Raw Tap	Raw Tap	Raw Tap	Raw Tap				
	60	61	Dort	3MG Well	Sta II									Lab Tap	66	67	68
1						2/0			0.24	14.1							
2						2/0			0.24	14.7							
3						2/0			0.24	14.9							
4						2/0			0.24	15.0							
5						2/0			0.24	14.9							
6						2/0			0.24	15.5							
7						2/0			0.24	15.4							
8						2/0			0.24	15.2							
9						2/0			0.24	15.0							
10						2/0			0.24	15.6							
11						2/0			0.24	15.5							
12						2/0			0.24	15.7							
13						2/0			0.25	16.6							
14						2/0			0.24	16.9							
15						2/0			0.24	17.8							
16						2/0			0.24	17.8							
17						2/0			0.24	17.8							
18						2/0			0.24	17.5							
19						2/0			0.24	18.1							
20						2/0			0.24	18.8							
21						2/0			0.24	18.5							
22						2/0			0.24	17.4							
23						2/0			0.24	17.8							
24						2/0			0.24	17.2							
25						2/0			0.24	17.3							
26						2/0			0.24	17.0							
27						2/0			0.24	17.5							
28						2/0			0.24	18.4							
29						2/0			0.24	19.2							
30						2/0			0.24	19.5							
31						2/0			0.24	19.6							
AVG									0.24	16.8							
MAX									0.25	19.6							
MIN									0.24	14.1							

