

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of December 2018

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 10.90 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 3715 gal.: Estimated supply 64 days
8. Sodium Hypochlorite on hand at outstations 357 gal: Estimated supply 66 days.
9. Phosphoric Acid on hand 632 gal.: Estimated supply 30 days
9. Sodium Hydroxide on hand 2185 gal.: Estimated supply 17 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

Dec-18

DATE	Fluoride Applied 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 OCT	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap	
								Free	Free	Free	Free	
1	0.71	0.71		1.14			1.0				1.6	
2	0.65	0.71		1.02			1.0				1.7	
3	0.64	0.70		1.09			1.1				1.7	
4	0.74	0.77		1.08			1.1				1.7	
5	0.64	0.67		0.82			1.1				1.6	
6	0.57	0.54		1.02			1.1				1.4	
7	0.60	0.70		0.96			1.1				1.6	
8	0.65	0.70		1.00			1.1				1.6	
9	0.61	0.60		0.96			1.1				1.6	
10	0.64	0.67		0.95			1.1				1.6	
11	0.62	0.65		1.03			1.0				1.7	
12	0.60	0.68		0.98			1.1				1.8	
13	0.68	0.69		0.89			1.1				1.6	
14	0.71	0.72		0.86			1.1				1.6	
15	0.71	0.72		0.88			1.1				1.7	
16	0.71	0.72		0.97			1.1				1.7	
17	0.71	0.71		1.02			1.1				1.7	
18	0.72	0.72		1.03			1.1				1.8	
19	0.70	0.70		0.99			1.2				1.8	
20	0.66	0.69		0.99			1.1				1.7	
21	0.60	0.61		0.96			1.1				1.8	
22	0.58	0.57		1.09			1.1				1.8	
23	0.56	0.62		0.96			1.1				1.8	
24	0.65	0.69		0.95			1.1				1.7	
25	0.66	0.61		1.01			1.1				1.8	
26	0.73	0.69		1.12			1.1				1.8	
27	0.66	0.69		1.02			1.1				1.7	
28	0.76	0.77		1.13			1.0				1.8	
29	0.66	0.64		1.14			1.0				1.7	
30	0.57	0.63		1.13			1.1				1.7	
31	0.65	0.70		1.17			1.1				1.6	
AVG	0.66	0.68		1.01			1.1				1.7	
MAX	0.76	0.77		1.17			1.2				1.8	
MIN	0.56	0.54		0.82			1.0				1.4	



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
	29	30	31	32	33	34	35	36	37	38.00	39	40	41	42	43	44
1	7.49	7.57	100	82	82	32	0.01	0.02	27.3	27.3	7.8	7.8	16	16	16	16
2	7.32	7.54	106	82	82	36	0.0	0.01	28.1	28.1	8.7	8.7	13	13	13	13
3	7.47	7.52	100	82	82	32	0.01	0.02	27.3	27.3	7.8	7.8	15	15	15	15
4	7.38	7.43	100	82	80	30	32	0	0.04	28.1	27.3	7.29	7.8	14	14	16
5	7.38	7.38	102	78	78	34	0.01	0.01	27.3	27.3	8.3	8.3	16	16	16	16
6	7.44	7.48	100	82	82	30	0.01	0.01	28.1	28.1	7.3	7.3	14	14	14	14
7	7.42	7.43	102	82	82	30	0.02	0.02	28.9	28.9	7.3	7.3	15	15	15	15
8	7.47	7.49	102	100	100	30	0.01	0.02	28.9	28.9	7.3	7.3	16	16	16	16
9	7.36	7.61	106	80	80	36	0.01	0.02	28.1	28.1	8.7	8.7	14	14	14	14
10	7.41	7.58	104	84	84	32	0.01	0.02	28.9	28.9	7.8	7.8	14	14	14	14
11	7.31	7.57	102	80	82	32	28	0.01	0.02	28.1	28.9	7.8	6.8	14	14	14
12	7.42	7.51	98	82	82	30	0.01	0.02	27.3	27.3	7.3	7.3	16	16	16	16
13	7.40	7.46	100	82	82	30	0.02	0.02	28.1	28.1	7.3	7.3	14	14	14	14
14	7.41	7.47	102	80	80	32	0.01	0.00	28.1	28.1	7.8	7.8	17	17	17	17
15	7.27	7.45	102	80	80	32	0.02	0.02	28.1	28.1	7.8	7.8	14	14	14	14
16	7.40	7.61	102	80	80	30	0.02	0.01	28.9	28.9	7.3	7.3	16	16	16	16
17	7.30	7.35	102	80	80	32	0.02	0.02	28.1	28.1	7.8	7.8	16	16	16	16
18	7.33	7.49	100	82	80	30	0.02	0.02	28.1	28.1	7.29	7.3	15	15	15	15
19	7.35	7.48	100	82	82	30	0.02	0.01	28.1	28.1	7.3	7.3	16	16	16	16
20	7.40	7.60	104	82	82	36	0.03	0.02	27.3	27.3	8.7	8.7	13	13	13	13
21	7.41	7.58	104	82	82	34	0.01	0.02	28.1	28.1	8.3	8.3	15	15	15	15
22	7.38	7.56	102	80	80	32	0	0.03	28.1	28.1	7.8	7.8	13	13	13	13
23	7.32	7.56	104	82	82	34	0.02	0.02	28.1	28.1	8.3	8.3	14	14	14	14
24	7.32	7.49	104	82	82	34	0	0.01	28.1	28.1	8.3	8.3	14	14	14	14
25	7.36	7.49	102	80	80	32	30	0.02	0.02	28.1	28.1	7.8	7.3	15	15	15
26	7.42	7.40	102	80	80	32	0.02	0.03	28.1	28.1	7.8	7.8	16	16	16	16
27	7.32	7.55	106	80	80	36	0	0.02	28.1	28.1	8.7	8.7	15	15	15	15
28	7.24	7.56	104	82	82	34	0.02	0.02	28.1	28.1	8.3	8.3	14	14	14	14
29	7.24	7.57	106	84	84	36	0.01	0.01	28.1	28.1	8.7	8.7	14	14	14	14
30	7.39	7.55	96	82	82	26	0.01	0.02	28.1	28.1	6.3	6.3	13	13	13	13
31	7.35	7.55	104	78	82	34	0.01	0.01	28.1	28.1	8.3	8.3	13	13	13	13
AVG	7.37	7.51	102	82	82	32		0.02	28.1	28.1	7.8	7.8	15	15	15	15
MAX	7.49	7.61	106	100	100	36		0.04	28.9	28.9	8.7	8.7	17.0	17.0	17.0	17.0
MIN	7.24	7.35	96	78	78	26		0.00	27.3	27.3	6.3	6.3	13.0	13.0	13.0	13.0



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DATE	Total Coliform					Standard Plate Count		Conductivity (ms)	Temp deg C	Color			Odor	
	Plant Tap					Raw Tap	Tap			Raw Tap	Tap	Raw Tap	Tap	
	Dort	3MG Well	Sa II	Lab Tap	Lab Tap									
1	60	51	42	43	54	55	66	67	68	69	71	72	73	74
2						2/0				0.22	10.9			
3						2/0				0.23	11.3			
4						2/0				0.22	10.7			
5						2/0				0.23	10.4			
6						2/0				0.22	10.6			
7						2/0				0.21	10.5			
8						2/0				0.20	9.1			
9						2/0				0.18	12.0			
10						2/0				0.23	11.3			
11						2/0				0.23	11.1			
12						2/0				0.23	10.7			
13						2/0				0.23	11.7			
14						2/0				0.21	11.1			
15						2/0				0.23	11.1			
16						2/0				0.24	10.9			
17						2/0				0.21	10.5			
18						2/0				0.19	10.3			
19						2/0				0.23	9.4			
20						2/0				0.23	10.7			
21						2/0				0.23	10.8			
22						2/0				0.23	10.7			
23						2/0				0.23	10.8			
24						2/0				0.23	9.8			
25						2/0				0.23	10.2			
26						2/0				0.23	10.3			
27						2/0				0.22	9.7			
28						2/0				0.23	10.4			
29						2/0				0.23	10.2			
30						2/0				0.23	9.2			
31						2/0				0.24	8.4			
AVG										0.23	9.3			
MAX										0.22	10.4			
MIN										0.24	12.0			
										0.18	8.4			

