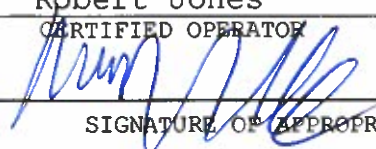


**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of FebruRY 2019

<u>Flint Water Plant</u> NAME OF WATER SYSTEM	<u>2310</u> WSSN	<u>Genesee</u> COUNTY
<u>Robert Jones</u> CERTIFIED OPERATOR		<u>D-1</u> CLASSIFICATION
 SIGNATURE OF APPROPRIATE OFFICIAL		

TREATMENT RATE AND FILTER DATA

1. Treatment Rate, Maximum 14.56 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 3060 gal.: Estimated supply 65 days
8. Sodium Hypochlorite on hand at outstations 369 gal: Estimated supply 61 days.
9. Phosphoric Acid on hand 829 gal.: Estimated supply 36 days
9. Sodium Hydroxide on hand 5015 gal.: Estimated supply 32 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

Feb-19

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 OCl ⁻	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap			
											Free	Free		
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.72	0.72			1.27			1.1					1.7	
2	0.72	0.70			1.03			1.1					1.7	
3	0.64	0.73			1.01			1.2					1.8	
4	0.68	0.71			1.06			1.0					1.7	
5	0.66	0.70			1.01			1.0					1.8	
6	0.71	0.75			1.01			1.2					1.8	
7	0.69	0.73			0.91			1.1					1.7	
8	0.77	0.78			0.98			1.1					1.6	
9	0.57	0.57			1.04			1.1					1.7	
10	0.73	0.71			0.92			1.2					1.7	
11	0.70	0.71			0.89			1.2					1.7	
12	0.70	0.71			0.89			1.2					1.7	
13	0.64	0.66			0.85			1.2					1.7	
14	0.61	0.66			0.89			1.2					1.7	
15	0.62	0.64			0.94			1.2					1.7	
16	0.62	0.61			0.99			1.1					1.7	
17	0.57	0.62			0.90			1.2					1.7	
18	0.66	0.57			0.92			1.2					1.8	
19	0.65	0.68			0.94			1.1					1.7	
20	0.60	0.65			0.95			1.1					1.7	
21	0.76	0.77			0.91			1.2					1.7	
22	0.70	0.73			0.90			1.1					1.7	
23	0.67	0.64			0.98			1.1					1.7	
24	0.70	0.68			0.86			1.1					1.8	
25	0.67	0.69			0.93			1.1					1.8	
26	0.71	0.72			0.72			1.2					1.7	
27	0.62	0.67			0.89			1.1					1.7	
28	0.72	0.71			0.97			1.1					1.7	
AVG		0.69			0.95			1.1					1.7	
MAX		0.78			1.27			1.2					1.8	
MIN		0.57			0.72			1.0					1.6	



Chemical Analyses

WSSN 2310

Feb-19

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	7.25	7.41	104	82	34	34	0.01	0.03	28.1	28.1	8.3	14				
2	7.23	7.49	106	82	36	0.0	0.00	28.1	28.1	8.7	14					
3	7.20	7.44	102	82	32	0.01	0.01	28.1	28.1	7.8	13					
4	7.19	7.47	104	84	36	0.01	0.00	27.3	27.3	8.7	14					
5	7.22	7.40	104	82	36	34	0.06	0.01	27.3	28.1	8.7	13				
6	7.22	7.45	104	84	34	0.02	0.01	28.1	28.1	8.3	14					
7	7.19	7.44	104	84	34	0	0.03	28.1	28.1	8.3	13					
8	7.20	7.51	106	84	36	0.01	0.00	28.1	28.1	8.7	13					
9	7.30	7.48	100	82	30	0.01	0.01	28.1	28.1	7.3	14					
10	7.21	7.46	108	84	38	0.02	0.01	28.1	28.1	9.2	14					
11	7.18	7.42	106	84	36	0.01	0.01	28.1	28.1	8.7	13					
12	7.20	7.41	104	82	34	36	0.02	0.01	28.1	28.1	8.3	13				
13	7.16	7.39	104	84	34	0	0.02	28.1	28.1	8.3	13					
14	7.18	7.45	106	84	36	0.01	0.00	28.1	28.1	8.7	12					
15	7.27	7.51	106	82	36	0	0.02	28.1	28.1	8.7	12					
16	7.30	7.46	104	82	32	0.02	0.01	28.9	28.9	7.8	14					
17	7.21	7.48	104	82	32	0.01	0.01	28.9	28.9	7.8	13					
18	7.21	7.52	106	86	34	0	0.02	28.9	28.9	8.3	13					
19	7.19	7.50	104	86	34	34	0.01	0.02	28.1	28.9	8.3	13				
20	7.21	7.50	106	86	36	0.01	0.01	28.1	28.1	8.7	13					
21	7.33	7.45	106	82	36	0.03	0.01	28.1	28.1	8.7	12					
22	7.34	7.44	106	86	36	0.01	0.01	28.1	28.1	8.7	13					
23	7.33	7.61	106	84	36	0.01	0.03	28.1	28.1	8.7	14					
24	7.34	7.54	106	84	34	0.03	0.02	28.9	28.9	8.3	14					
25	7.22	7.48	106	86	34	0.02	0.01	28.9	28.9	8.3	13					
26	7.26	7.47	106	86	36	34	0.02	0.02	28.1	28.9	8.7	12				
27	7.20	7.48	104	88	34	0.02	0.01	28.1	28.1	8.3	14					
28	7.21	7.53	106	86	34	0.02	0.01	28.9	28.9	8.3	14					
AVG	7.23	7.47	105	84	35		0.01	28.3	28.3	8.4	13					
MAX	7.34	7.61	108	88	38		0.03	28.9	28.9	9.2	14.0					
MIN	7.16	7.39	100	82	30		0.00	27.3	27.3	7.3	12.0					



WSSN 2310

Feb-19

DATE	Total Coliform					Standard Plate Count		Conductivity (mS)	Temp deg C	Color		Odor		
	Plant Tap					Raw Tap	Tap			Raw Tap	Tap			
	Dort	3MG Well	Sta II	Lab Tap	Lab Tap									
1	60	61	62	63	64	65	66	67	68	69	71	72	73	74
2						2/0				0.24	6.7			
3						2/0				0.24	6.4			
4						2/0				0.24	6.8			
5						2/0				0.24	6.7			
6						2/0				0.23	6.6			
7						2/0				0.24	7.0			
8						2/0				0.23	7.1			
9						2/0				0.24	7.0			
10						2/0				0.24	6.4			
11						2/0				0.24	6.1			
12						2/0				0.24	6.8			
13						2/0				0.24	6.7			
14						2/0				0.23	7.7			
15						2/0				0.23	6.6			
16						2/0				0.23	6.5			
17						2/0				0.23	6.2			
18						2/0				0.24	7.0			
19						2/0				0.23	7.1			
20						2/0				0.24	6.2			
21						2/0				0.24	6.5			
22						2/0				0.24	7.2			
23						2/0				0.24	7.3			
24						2/0				0.24	7.7			
25						2/0				0.24	6.8			
26						2/0				0.24	6.6			
27						2/0				0.24	6.3			
28						2/0				0.24	6.8			
AVG										0.24	6.7			
MAX										0.24	7.7			
MIN										0.23	6.1			



Distribution System Monitoring WSSN 2310

Feb-19

D A T E	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																1.70	1.63	1.42	1.20							1.58					1.49	6
2																															0	
3																															0	
4	1.71	1.65	1.75	1.76	1.80	1.44																				1.61					8	
5																															8	
6																															8	
7	1.53	1.58	1.66	1.66	1.97																										8	
8																															0	
9																															0	
10																															8	
11	1.64	1.81	1.62	1.64	1.67	1.57																									8	
12																															5	
13																															8	
14	1.54	1.79	1.62	1.65	1.81																										8	
15																															6	
16																															0	
17																															0	
18	1.60		1.65	1.65	1.90	1.59																									7	
19																															8	
20																															8	
21	1.61	1.78	1.67	1.69	1.90																										8	
22																															6	
23																															0	
24																															0	
25	1.63	1.72	1.62	1.64	1.66	1.50																									8	
26																															8	
27																															8	
28	1.51	1.78	1.62	1.61	1.85																										8	
Monthly Cl₂ Avg.	1.62																															
Total Samples	129																															

