

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of January 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 14.25 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 2050 gal.: Estimated supply 33 days
8. Sodium Hypochlorite on hand at outstations 184 gal: Estimated supply 32 days.
9. Phosphoric Acid on hand 677 gal.: Estimated supply 27 days
9. Sodium Hydroxide on hand 3850 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



Chemical Analyses

WSSN 2310

Jan-19

D A T E	pH		Total Hardness as CaCO ₃ mg/l		Total Alkalinity as CaCO ₃ mg/l		Non-Carbonate 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	7.32	7.48		100		80		36	0.01	0.01		25.7		8.7		12
2	7.26	7.53		104		82		34	0.0	0.01		28.1		8.3		13
3	7.32	7.50		106		82		36	0.01	0.01		28.1		8.7		13
4	7.30	7.49		104		82		36	0.02	0.02		27.3		8.7		14
5	7.29	7.55		104		84		34	0.01	0.01		28.1		8.3		14
6	7.39	7.46		104		84		34	0	0.01		28.1		8.3		15
7	7.32	7.50		104		86		34	0.02	0.02		28.1		8.3		15
8	7.33	7.49	104	104		82	34	34	0.01	0.03	28.1	28.1	8.3	8.3	14	14
9	7.35	7.56		106		84		38	0.01	0.01		27.3		9.2		14
10	7.32	7.56		104		84		34	0.02	0.02		28.1		8.3		14
11	7.30	7.53		104		84		34	0.01	0.01		28.1		8.3		14
12	7.29	7.51		98		80		26	0.01	0.01		28.9		6.3		13
13	7.30	7.53		106		84		34	0.03	0.01		28.9		8.3		12
14	7.25	7.52		104		84		34	0.01	0.01		28.1		8.3		14
15	7.26	7.55	106	106		80	36	36	0	0.01	28.1	28.1	8.7	8.7	13	13
16	7.30	7.50		108		84		38	0.01	0.00		28.1		9.2		13
17	7.25	7.43		102		80		30	0.02	0.02		28.9		7.3		14
18	7.29	7.50		106		82		36	0.02	0.02		28.1		8.7		13
19	7.27	7.45		104		82		36	0.02	0.03		27.3		8.7		14
20	7.17	7.48		96		80		28	0.02	0.01		27.3		6.8		12
21	7.21	7.50		104		84		32	0.02	0.02		28.9		7.8		12
22	7.22	7.45	102	102		80	32	32	0.03	0.01	28.1	28.1	7.8	7.8	14	14
23	7.41	7.55		96		74		28	0	0.00		27.3		6.8		14
24	7.38	7.51		104		76		34	0.02	0.02		28.1		8.3		15
25	7.31	7.48		102		80		28	0.03	0.02		29.7		6.8		15
26	7.21	7.51		104		88		32	0.02	0.02		28.9		7.8		15
27	7.38	7.44		104		86		30	0.02	0.01		27.3		7.3		15
28	7.32	7.60		104		82		26	0.01	0.05		30.5		6.3		14
29	7.38	7.56	100	102		78	28	24	0.02	0.04	28.9	31.3	6.8	5.8	13	14
30	7.36	7.53		104		82		34	0	0.00		28.1		8.3		15
31	7.24	7.55		106		86		36	0.01	0.03		28.1		8.7		13
AVG	7.30	7.51		103		82		33		0.02		28.2		8.0		14
MAX	7.41	7.60		108		88		38		0.05		31.3		9.2		15.0
MIN	7.17	7.43		96		74		24		0.00		25.7		5.8		12.0



WSSN 2310

Jan-19

DATE	Total Coliform					Standard Plate Count	Conductivity (mS)	Temp deg C	Color		Odor		
	Plant Tap								Raw Tap	Raw Tap	Raw Tap	Raw Tap	
	Dort	3MG Well	Sta II	Lab Tap	Lab Tap								
60	61	62	63	64	65	66	67	68	69	71	72	73	74
1						2/0		0.23	8.7				
2						2/0		0.23	9.7				
3						2/0		0.23	9.1				
4						2/0		0.23	9.4				
5						2/0		0.23	9.7				
6						2/0		0.23	9.9				
7						2/0		0.23	9.5				
8						2/0		0.23	9.8				
9						2/0		0.22	9.2				
10						2/0		0.23	9.0				
11						2/0		0.23	9.0				
12						2/0		0.22	9.9				
13						2/0		0.23	9.0				
14						2/0		0.23	9.2				
15						2/0		0.23	8.9				
16						2/0		0.23	8.9				
17						2/0		0.23	8.2				
18						2/0		0.22	8.8				
19						2/0		0.23	8.3				
20						2/0		0.21	6.3				
21						2/0		0.23	7.3				
22						2/0		0.23	7.7				
23						2/0		0.23	9.2				
24						2/0		0.23	9.2				
25						2/0		0.23	8.6				
26						2/0		0.23	7.1				
27						2/0		0.23	6.8				
28						2/0		0.23	6.6				
29						2/0		0.24	6.6				
30						2/0		0.24	6.4				
31						2/0		0.24	6.3				
AVG								0.23	8.5				
MAX								0.24	9.9				
MIN								0.21	6.3				



Distribution System Monitoring

WSSN 2310

Jan-19

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations 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	1.82							1.88																						0
2															1.47	1.86	1.51	1.42			1.65	1.94					1.65	1.79						11		
3	1.65	1.95	1.77	1.67	2.05										1.66	1.88	1.61	1.04								1.94								7		
4																																			7	
5																																			0	
6																																			0	
7	1.66	1.89	1.81	1.79	2.02	1.80																					1.64								8	
8															1.65	1.92	1.71	1.92	1.75							1.39		1.89	1.54	1.78	1.89	1.58	1.17		1.70	8
9																												1.62	1.95							8
10	1.55	1.83	1.74	1.74	2.04																														8	
11																																			6	
12																																			0	
13																																			0	
14	1.64	1.87	1.75	1.72	1.93	1.73																					1.60								8	
15															1.69	1.90	1.76	1.89	1.82	1.53	1.44						1.99	1.75	1.90	1.98	1.68	1.16		1.66	9	
16																																			8	
17	1.73	2.07	1.87	1.85	2.06																														8	
18																																			6	
19																																			0	
20																																			0	
21	1.90	2.00	1.89	1.87	2.02	1.60																													8	
22															1.86	1.99	1.47	1.88	1.85	1.49	1.79													8		
23																																			9	
24	1.52	1.76	1.64	1.65	1.78										1.37	1.60	1.87	1.87	1.65	1.16														8		
25																																			8	
26																																			6	
27																																			0	
28																																			0	
29	1.67			1.81	2.03																														4	
30																																			4	
31	1.90	2.04	1.85		2.18																														4	
Monthly Cl₂ Avg.																										1.75										
Total Samples																										139										



ROUTINE POSITIVE DISTRIBUTION SAMPLES

Jan-19

Total number of positive routine samples:				Total Coliform: 0				E. coli Bacteria: 0		Chlorine Residual (mg/L)	
Date	Monitoring Station	Total Coliform	E. coli Bacteria	Date	Time	Retest of Station, Upstream & Downstream	Total Coliform	E. coli Bacteria	Free	Total	
Total number of routine distribution samples analyzed:				139							
Total number of routine distribution samples required:				100							