



The City of Flint and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

MOR September

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system or those persons directly responsible for gathering such information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

City of Flint Representative: _____

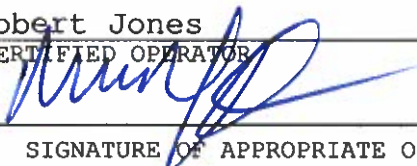
Signature: _____ Date: _____

F&V Operations Representative: Robert Jones _____

Signature: _____ Date: 10/2/2020

**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of September 2020

<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
<u></u> SIGNATURE OF APPROPRIATE OFFICIAL		

TREATMENT RATE AND FILTER DATA

1. Treatment Rate, Maximum 10.85 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 2921 gal.: Estimated supply 30 days
8. Sodium Hypochlorite on hand at outstations 325 gal: Estimated supply 46 days.
9. Phosphoric Acid on hand 768 gal.: Estimated supply 37 days
9. Sodium Hydroxide on hand 3732 gal.: Estimated supply 55 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 Sep-20

D A T E	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		
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	0.70	0.70	0.70	1.39				0.7					1.6	
2	0.66	0.70		1.45				0.7					1.7	
3	0.65	0.65		1.41				0.7					1.7	
4	0.74	0.79		1.45				0.8					1.6	
5	0.74	0.75		1.50				0.8					1.7	
6	0.70	0.77		1.44				0.8					1.7	
7	0.74	0.74		1.42				0.8					1.6	
8	0.80	0.77		1.42				0.8					1.6	
9	0.84	0.87		1.44				0.8					1.6	
10	0.61	0.64		1.44				0.9					1.7	
11	0.68	0.71		1.32				0.8					1.7	
12	0.84	0.89		1.24				0.7					1.7	
13	0.74	0.70		1.22				0.8					1.7	
14	0.77	0.71		1.15				0.7					1.6	
15	0.81	0.75		1.18				0.8					1.7	
16	0.77	0.81		1.15				0.8					1.7	
17	0.74	0.77		1.14				0.8					1.7	
18	0.65	0.73		1.18				0.8					1.7	
19	0.70	0.70		1.08				0.9					1.7	
20	0.75	0.78		1.11				0.8					1.6	
21	0.69	0.69		1.21				0.8					1.4	
22	0.66	0.68		1.15				0.9					1.6	
23	0.67	0.63		1.21				0.8					1.8	
24	0.72	0.79		1.21				0.9					1.7	
25	0.68	0.72		1.19				1.0					1.7	
26	0.74	0.84		1.26				0.9					1.7	
27	0.73	0.71		1.22				0.8					1.8	
28	0.77	0.81		1.25				0.8					1.7	
29	0.85	0.83		1.19				0.8					1.6	
30	0.89	0.88		1.27				0.9					1.6	
31														
AVG		0.75		1.28				0.8					1.7	
MAX		0.89		1.50				1.0					1.8	
MIN		0.63		1.08				0.7					1.4	



Chemical Analyses WSSN 2310 Sep-20

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	7.29	7.52	100	100	82	80	30	36	0.01	0.02	28.1	28.1	7.3	7.3	15	16
2	7.32	7.54		96		80		28	0.0	0.01		27.3		6.8		16
3	7.34	7.54		98		78		28	0	0.01		28.1		6.8		16
4	7.43	7.49		100		82		30	0.02	0.01		28.1		7.3		15
5	7.30	7.51		100		80		34	0.02	0.02		26.5		8.3		15
6	7.38	7.47		100		80		32	0.05	0.02		27.3		7.8		16
7	7.28	7.50		100		80		30	0	0.00		28.1		7.3		17
8	7.28	7.52	104	106	78	78	32	32	0.01	0.01	28.9	29.7	7.8	7.8	15	17
9	7.33	7.52		100		80		26	0.03	0.00		29.7		6.3		16
10	7.31	7.51		100		80		26	0.01	0.01		29.7		6.3		16
11	7.46	7.54		100		80		30	0.02	0.01		28.1		7.3		15
12	7.48	7.50		100		82		30	0.02	0.02		28.1		7.3		17
13	7.43	7.49		102		80		29	0.01	0.01		27.3		7.0		16
14	7.33	7.53		100		80		28	0.01	0.01		28.9		6.8		15
15	7.33	7.52	100	100	78	76	30	28	0.02	0.02	28.1	28.9	7.3	6.8	14	15
16	7.31	7.52		100		80		28	0.01	0.02		28.9		6.8		16
17	7.41	7.55		100		80		28	0.01	0.01		28.9		6.8		15
18	7.49	7.50		100		82		30	0.03	0.02		28.1		7.3		16
19	7.42	7.58		102		80		30	0.01	0.02		28.9		7.3		14
20	7.52	7.53		102		80		34	0.01	0.00		27.3		8.3		16
21	7.33	7.51		98		80		30	0.02	0.01		27.3		7.3		14
22	7.33	7.53	100	102	78	76	32	30	0.02	0.02	27.3	28.9	7.8	7.3	14	14
23	7.35	7.54		100		78		34	0	0.01		26.5		8.3		14
24	7.44	7.49		100		82		32	0.01	0.01		27.3		7.8		15
25	7.29	7.53		100		78		30	0	0.02		28.1		7.3		15
26	7.32	7.51		100		78		28	0.01	0.02		28.9		6.8		14
27	7.43	7.53		100		84		32	0	0.00		27.3		7.8		16
28	7.31	7.51		100		82		28	0.01	0.02		28.9		6.8		14
29	7.32	7.55	98	100	76	76	28	28	0.01	0.01	28.1	28.9	6.8	6.8	14	14
30	7.30	7.54		100		78		28	0.01	0.00		28.9		6.8		14
31																
AVG	7.36	7.52		100		80		30		0.01		28.2		7.2		15
MAX	7.52	7.58		106		84		36		0.02		29.7		8.3		17.0
MIN	7.28	7.47		96		76		26		0.00		26.5		6.3		14.0



WSSN 2310

Sep-20

DATE	Total Coliform										Standard Plate Count	Conductivity (mS)	Temp deg C	Color		Odor	
	Plant Tap													Raw Tap	Raw Tap	Raw Tap	Raw Tap
	60	61	62	63	64	65	Lab Tap	3MG Well	Sta II	Lab Tap							
1						2/0					67	68		71	72	73	74
2						2/0							0.23	21.5			
3						2/0							0.23	21.6			
4						2/0							0.23	21.4			
5						2/0							0.23	21.1			
6						2/0							0.23	21.2			
7						2/0							0.23	21.0			
8						2/0							0.23	21.3			
9						2/0							0.23	21.2			
10						2/0							0.23	21.1			
11						2/0							0.23	21.0			
12						2/0							0.23	21.4			
13						2/0							0.23	21.5			
14						2/0							0.23	21.8			
15						2/0							0.23	20.6			
16						2/0							0.23	20.5			
17						2/0							0.23	20.4			
18						2/0							0.23	20.1			
19						2/0							0.23	19.9			
20						2/0							0.23	19.7			
21						2/0							0.23	19.8			
22						2/0							0.23	19.8			
23						2/0							0.23	19.8			
24						2/0							0.23	19.6			
25						2/0							0.23	19.6			
26						2/0							0.23	19.6			
27						2/0							0.22	19.4			
28						2/0							0.23	19.4			
29						2/0							0.23	19.2			
30						2/0							0.23	19.1			
31																	
AVG													0.23	20.5			
MAX													0.23	21.8			
MIN													0.22	19.1			



Distribution System Monitoring WSSN 2310

Sep-20

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							1.41	0.77	1.20	0.76	0.46										1.14						0.84					7
2														1.37	1.13	1.29	1.43							1.44			0.99	1.68	0.96			9
3	0.76			1.05	1.27						0.66									1.04		1.64			1.57						7	
4												1.07			1.41	1.41		1.24													4	
5																															0	
6																															0	
7	0.47			1.13	1.34												1.03														5	
8		1.64					1.44	0.97	1.48	0.46	0.31									1.35						0.76				8		
9						1.04								1.37	0.88	1.20	1.46	0.90					1.23	1.24		0.93	1.57	1.01		11		
10	0.86			1.34	1.24						0.36					1.46	1.48			0.80		1.62			1.60					7		
11												1.17						1.14												4		
12																															0	
13																															0	
14	0.92	1.38		1.42	0.82	1.23											1.16						1.30								8	
15							1.35	1.00	1.35	0.13	0.46									1.32							0.86				7	
16														0.45	0.79	1.22	1.52	0.89						1.52		1.01	1.45	0.98			9	
17	0.92			1.32	1.53						1.20					1.22				0.88		1.58			1.38						7	
18													1.01																		3	
19																															0	
20																															0	
21	0.86	1.14		1.54	0.92	1.47											0.47	0.48					0.83								9	
22							1.37	1.39	1.34	1.22	0.45										1.33						0.91				7	
23														1.47	1.15	1.37	1.52	1.15				1.60		1.13		1.05	1.66	0.94		9		
24	1.05			1.36	1.76						1.16					1.09	1.60	1.21		0.97		1.60			1.45					7		
25													1.18																		4	
26																															0	
27																															0	
28	1.14	1.43		1.33	1.60	1.43											1.10						0.83								8	
29							1.34	1.05	1.37	1.27	0.98									1.23							0.89				7	
30														1.50	1.06	1.15	1.15	1.15						0.76		1.08	1.55	1.14			9	
31																															0	
Monthly Cl ₂ Avg.				1.16																												
Total Samples				132																												



Sep-20

ROUTINE POSITIVE DISTRIBUTION SAMPLES

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	Rest of Station, Upstream & Downstream	Total Coliform	E. coli Bacteria	Free	Total				
Total number of routine distribution samples analyzed:				132										
Total number of routine distribution samples required:				100										