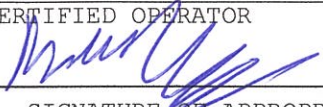


**MONTHLY OPERATION REPORT
OF
WATER TREATMENT PLANT**

For Month of January 2018

<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 13.46 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 4032 gal.: Estimated supply 66 days
8. Sodium Hypochlorite on hand at outstations 140 gal: Estimated supply 12 days
9. Phosphoric Acid on hand 1239 gal.: Estimated supply 48 days
9. Sodium Hydroxide on hand 5050 gal.: Estimated supply 28 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

Jan-18

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		0.78	0.77		1.13				0.9						1.7	
2		0.78	0.79		1.02				1.0						1.7	
3		0.83	0.82		1.04				1.2						1.8	
4		0.75	0.73		1.12				0.9						1.6	
5		0.72	0.70		1.25				0.9						1.7	
6		0.68	0.69		0.85				1.3						1.9	
7		0.70	0.67		0.82				1.1						1.9	
8		0.70	0.70		0.74				1.1						1.7	
9		0.68	0.73		0.89				1.2						1.9	
10		0.77	0.76		0.91				1.1						1.6	
11		0.75	0.79		0.82				1.2						1.6	
12		0.77	0.76		0.85				1.2						1.7	
13		0.65	0.73		0.92				1.3						1.9	
14		0.74	0.75		1.03				1.0						1.6	
15		0.71	0.74		0.86				1.2						1.7	
16		0.76	0.77		0.88				1.0						1.6	
17		0.67	0.69		0.82				1.0						1.6	
18		0.77	0.77		0.84				1.1						1.6	
19		0.72	0.73		0.91				1.2						1.7	
20		0.73	0.72		0.89				1.3						1.9	
21		0.71	0.73		0.91				1.1						1.7	
22		0.74	0.73		0.92				1.2						1.9	
23		0.73	0.72		0.85				1.3						1.8	
24		0.75	0.76		0.82				1.3						1.9	
25		0.81	0.82		0.69				1.4						1.8	
26		0.73	0.73		0.69				1.4						1.9	
27		0.73	0.73		0.65				1.4						1.9	
28		0.73	0.73		0.86				1.0						1.7	
29		0.81	0.81		1.02				0.8						1.7	
30		0.71	0.72		0.88				1.3						1.6	
31		0.73	0.73		0.99				1.2						1.9	
AVG		0.78	0.74		0.90				1.1						1.7	
MAX		0.83	0.82		1.25				1.4						1.9	
MIN		0.67	0.67		0.65				0.8						1.6	



Chemical Analyses WSSN 2310 Jan-18

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	37.00	38.00	39	40	41	42	43	44
1	7.16	7.51		94		84		24	0.01	0.00		28.1		5.8		9
2	7.32	7.58	98	98	82	84	28.0	28	0.01	0.01	28.1	28.1	6.8	6.8	13.0	15
3	7.46	7.73		98		84		28	0.00	0.00		28.1		6.8		17
4	7.09	7.47		98		86		28	0.00	0.00		28.1		6.8		16
5	7.23	7.53		102		88		32	0.00	0.01		28.1		7.8		14
6	7.40	7.64		100		84		28	0.00	0.00		28.9		6.8		15
7	7.30	7.63		100		84		28	0.02	0.01		28.9		6.8		15
8	7.16	7.49		98		84		26	0.00	0.00		28.9		6.3		17
9	7.40	7.77	100	98	76	84	32	32	0.00	0.00	27.3	26.5	7.8	7.8	15	14
10	7.17	7.54		104		88		30	0.01	0.02		29.7		7.3		16
11	7.27	7.57		104		86		28	0.00	0.00		30.5		6.8		16
12	7.22	7.49		104		86		30	0.01	0.01		29.7		7.3		16
13	7.43	7.68		102		84		30	0.00	0.00		28.9		7.3		15
14	7.32	7.54		104		84		28	0.00	0.00		30.5		6.8		14
15	7.28	7.51		98		82		24	0.03	0.01		29.7		5.8		14
16	7.23	7.50	100	100	76	80	28	30	0.01	0.01	28.9	28.1	6.8	7.8	14	13
17	7.39	7.55		100		82		24	0.00	0.00		30.5		5.8		15
18	7.26	7.54		92		84		20	0.00	0.01		28.9		4.9		14
19	7.26	7.50		102		86		28	0.00	0.00		29.7		6.8		15
20	7.29	7.39		100		82		28	0.01	0.01		28.9		6.8		15
21	7.10	7.40		94		78		26	0.00	0.01		27.3		6.3		14
22	7.22	7.51		96		84		42	0.00	0.01		27.0		10.2		15
23	7.28	7.65	96	98	78	80	26	22	0.01	0.02	28.1	30.5	6.3	5.3	15	15
24	7.27	7.50		100		84		28	0.01	0.01		28.9		6.8		15
25	7.50	7.66		92		84		22	0.01	0.01		28.1		5.3		15
26	7.40	7.60		96		80		24	0.00	0.00		28.9		5.8		15
27	7.34	7.49		98		82		26	0.01	0.02		28.9		6.3		15
28	7.18	7.36		92		78		28	0.01	0.00		25.7		6.8		15
29	7.16	7.44		96		76		26	0.00	0.00		28.1		6.3		16
30	7.34	7.66	84	90	70	76	20	22	0.00	0.01	64	26.5	4.9	5.3	13	13
31	7.23	7.54		92		76		26	0.01	0.01		26.5		6.3		13
AVG	7.28	7.55		98		83		27		0.01		28.6		6.6		15
MAX	7.50	7.77		104		88		42		0.02		30.5		10.2		17.0
MIN	7.09	7.36		90		76		20		0.00		25.7		4.9		9.0



WSSN 2310

Jan-18

D A T E	Total Coliform						Standard Plate Count			Conductivity (mS)	Temp deg.C	Color		Odor	
	Plant Tap						Raw	Tap	Raw			Tap	Raw	Tap	
			Dort	3MG Well	Sta II	Lab Tap									
	60	61	62	63	64	65	66	67	68	69		71	72	73	74
1					2/0				0.23	8.4					
2					2/0				0.24	8.0					
3					2/0				0.24	8.1					
4					2/0				0.24	7.8					
5					2/0				0.24	7.5					
6					2/0				0.23	9.4					
7					2/0				0.23	9.0					
8					2/0				0.25	7.1					
9					2/0				0.24	9.2					
10					2/0				0.25	7.1					
11					2/0				0.26	8.6					
12					2/0				0.24	9.0					
13					2/0				0.24	9.0					
14					2/0				0.25	5.9					
15					2/0				0.24	6.4					
16					2/0				0.24	5.8					
17					2/0				0.24	6.0					
18					2/0				0.25	5.8					
19					2/0				0.23	8.7					
20					2/0				0.22	8.3					
21					2/0				0.24	6.7					
22					2/0				0.22	7.8					
23					2/0				0.23	8.5					
24					2/0				0.22	9.0					
25					2/0				0.22	9.7					
26					2/0				0.21	9.9					
27					2/0				0.22	8.0					
28					2/0				0.24	6.2					
29					2/0				0.24	5.6					
30					2/0				0.21	6.0					
31					2/0				0.21	9.4					
AVG									0.23	7.8					
MAX									0.26	9.9					
MIN									0.21	5.6					



Distribution System Monitoring

WSSN 2310

Jan-18

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	21	22	23	24	25						
1																										0					
2							1.73	1.93	1.32	1.94		1.70	1.79													6					
3														1.46	1.56	1.82	1.90	1.60					1.74			6					
4	1.72	1.52	1.81	1.78	2.04	1.71															1.62				1.80	8					
5															1.94	1.96	1.66	1.33								1.77	5				
6																											0				
7																											0				
8	1.70	1.40	1.92	1.91	2.09	1.77																1.71					7				
9							1.72	1.91	1.34	1.87		1.77	1.66										1.74				7				
10														1.54	1.52	1.95	2.07	1.67	1.49					1.79			7				
11	1.67	1.47	1.81	1.78	2.04																1.74				1.79		7				
12												1.96	1.86	1.90	1.47										1.87		5				
13																											0				
14																											0				
15	1.81		1.89	1.95	2.10	1.91																1.73					6				
16							1.62	1.96	1.39	1.97		1.66	1.93							1.51			1.43				8				
17														2.06	1.88	1.70	1.90	1.57					1.96				6				
18	1.67	1.52	1.94	1.86	1.96																				1.86		7				
19															1.72	1.95	1.62	1.59									4				
20																											0				
21																											0				
22	1.61	1.50	1.82	1.84	1.98	1.68																1.76					7				
23							1.73	1.98	1.59	1.88		1.55	1.90														6				
24														1.97	1.78	1.52	1.97	1.52	1.59					1.64			7				
25	1.74	1.50	1.93	1.95	2.03																1.68				1.79		7				
26												1.83	1.80	1.91	1.51							1.48					5				
27																											0				
28																											0				
29	1.72	0.63	1.89	1.84	2.07	1.74																1.74					7				
30							1.69	2.00	1.32	1.97		2.02	1.83												1.79		7				
31														1.92	1.62	1.83	1.77	1.65	1.41					1.73			7				
Monthly Cl₂ Avg.					1.75																										
Total Samples					142																										



Distribution System Monitoring WSSN 2310

Jan-18

DATE	Free 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	21	22	23	24	25						
1																										0					
2							1.50	1.74	1.14	1.69		1.51	1.58													6					
3														1.22	1.25	1.60	1.64	1.39	0.81				1.54			7					
4	1.40	1.32	1.55	1.54	1.77	1.15															1.40				1.61	8					
5																1.70	1.69	1.43	1.13							1.59	5				
6																											0				
7																											0				
8	1.51	1.30	1.69	1.69	1.89	1.48																1.49					7				
9							1.54	1.72	1.21	1.66		1.54	1.52										1.51				7				
10														1.38	1.31	1.74	1.89	1.47	1.27					1.65			7				
11	1.49	1.34	1.67	1.66	1.87																1.62				1.66		7				
12												1.70	1.66	1.77	1.26											1.67	5				
13																											0				
14																											0				
15	1.61		1.67	1.74	1.90	1.70																1.54					6				
16							1.50	1.77	1.22	1.78		1.47	1.72							1.32			1.26				8				
17														1.83	1.61	1.50	1.69	1.32						1.72			6				
18	1.47	1.37	1.73	1.68	1.77																1.63				1.61		7				
19																1.53	1.72	1.43	1.40								4				
20																											0				
21																											0				
22	1.48	1.39	1.65	1.65	1.76	1.59																1.59					7				
23							1.62	1.68	1.41	1.73		1.35	1.71														6				
24														1.74	1.57	1.40	1.77	1.36	1.41					1.50			7				
25	1.55	1.02	1.71	1.73	1.83																1.59				1.70		7				
26												1.71	1.66	1.81	1.23							1.36					5				
27																											0				
28																											0				
29	1.57	0.56	1.70	1.69	1.90	1.56																1.35					7				
30							1.45	1.77	1.11	1.82		1.54	1.68										1.58				7				
31														1.80	1.47	1.65	1.44	1.47	1.23					1.62			7				
Monthly Cl₂ Avg.					1.55																										
Total Samples					120																										

