



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:

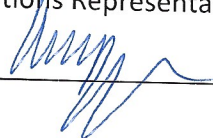
3rd Quarter WQP monitoring 2020

"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: 10/27/2020



3rd QUARTER WATER QUALITY PARAMETER MONITORING

07/01/20 - 09/31/20

SAMPLE POINT IDENTIFICATION				PARAMETERS AND RESULTS												
Distribution System Location #	Sample Point Name & Address	# of Samples Taken		Temperature (°C)	Conductivity (mS)	pH (su)	Total Alkalinity (mg/L CaCO ₃)	Calcium (mg/L Ca ²⁺)	Hardness (mg/L CaCO ₃)	Turbidity (NTU)	Iron (mg/L)	Chloride (mg/L Cl ⁻)	Phosphate (mg/L PO ₄)	Sulfate (mg/L SO ₄)	Free Chlorine (ppm)	Total Chlorine (ppm)
1	University Market 2501 Flushing Rd	28	MIN	18.9	0.225	7.42	76	25.7	90	0.06	0.01	13	3.19	10	0.47	0.81
			MAX	23.5	0.234	7.70	82	29.7	104	0.48	0.04	17	3.60	22	1.36	1.50
			AVG	21.8	0.230	7.54	79	27.4	99	0.10	0.02	15	3.38	17	0.97	1.19
2	Ten Fu Chinese Gourmet 1621 Saginaw St	13	MIN	20.6	0.225	7.44	78	26.5	98	0.09	0.02	14	3.33	17	1.07	1.11
			MAX	23.2	0.231	7.67	80	28.1	98	0.15	0.02	15	3.36	18	1.64	1.76
			AVG	22.0	0.228	7.59	79	27.3	98	0.12	0.02	15	3.35	18	1.39	1.60
3	Palace Liquor Store 3609 Beecher	0	MIN													
			MAX													
			AVG													
4	Rite-Aid 3521 Corunna	28	MIN	18.6	0.224	7.43	74	26.5	94	0.06	0.01	13	3.11	14	1.05	1.31
			MAX	22.7	0.233	7.70	84	240.0	112	28.80	1.03	16	11.90	19	1.54	1.87
			AVG	21.1	0.229	7.53	79	35.2	100	1.12	0.05	15	3.70	17	1.33	1.51
5	Cedar St Reservoir 1100 Cedar	28	MIN	16.5	0.221	7.23	76	25.7	96	0.07	0.00	14	3.33	13	0.92	1.45
			MAX	22.0	0.236	7.87	82	28.9	104	0.36	0.04	16	3.57	24	1.80	1.96
			AVG	19.8	0.230	7.64	79	27.4	99	0.12	0.02	15	3.44	18	1.45	1.71
6	Dean T. Yeotis Law 611 W. Court St Ste 200	14	MIN	18.8	0.224	7.46	76	27.3	94	0.13	0.02	15	3.37	17	0.88	1.10
			MAX	23.0	0.232	7.62	80	27.3	102	0.30	0.04	16	3.42	17	1.52	1.79
			AVG	21.3	0.228	7.55	78	27.3	99	0.20	0.03	15	3.39	17	1.30	1.52
7	Foss Avenue Church 1159 Foss Ave	0	MIN													
			MAX													
			AVG													
8	North Flint Automotive 6204 N Saginaw St	0	MIN													
			MAX													
			AVG													
9	Rite-Aid 5018 Clio Rd	14	MIN	18.9	0.224	7.32	76	26.5	96	0.05	0.00	14	3.22	15	0.77	0.89
			MAX	22.6	0.234	7.71	82	28.1	102	0.16	0.04	17	3.44	22	1.39	1.50
			AVG	21.5	0.228	7.49	79	27.4	99	0.09	0.02	15	3.35	17	0.97	1.11
10	Auto Zone 4090 Clio Rd	14	MIN	17.5	0.225	7.46	80	27.3	96	0.08	0.00	14	3.41	10	1.01	1.06
			MAX	22.0	0.233	7.83	80	27.3	98	0.08	0.02	15	3.52	16	1.51	1.65
			AVG	20.4	0.229	7.57	80	27.3	97	0.08	0.01	15	3.48	14	1.33	1.54
11	Westside Reservoir 1416 Dupont St	28	MIN	18.7	0.222	7.23	76	26.4	96	0.08	0.01	14	3.18	15	0.13	1.14
			MAX	22.3	0.243	7.89	82	28.9	102	0.25	0.04	16	3.47	22	1.44	1.57
			AVG	20.7	0.230	7.63	79	27.2	99	0.12	0.02	15	3.38	17	1.06	1.43
12	Woodside Church 503 Garland St	14	MIN	21.7	0.226	7.46	78	27.3	96	0.13	0.01	14	3.30	15	0.09	0.49
			MAX	26.3	0.237	7.61	80	28.7	100	0.51	0.03	16	3.61	17	0.98	1.19
			AVG	24.4	0.231	7.52	79	28.0	98	0.30	0.02	15	3.43	16	0.62	0.90
13	Grandma's Recipies 3538 Richfield Rd	6	MIN	20.3	0.227	7.54	78	26.5	100	0.11	0.01	14	3.39	17	0.82	1.02
			MAX	24.2	0.232	7.73	78	26.5	100	0.11	0.01	14	3.39	17	1.47	1.62
			AVG	22.6	0.229	7.61	78	26.5	100	0.11	0.01	14	3.39	17	1.12	1.26
14	Admiral Gas 3802 Davison Rd	14	MIN	18.7	0.224	7.47	74	25.7	96	0.04	0.00	14	3.40	15	0.45	1.52
			MAX	22.3	0.233	7.70	82	28.9	104	0.09	0.03	16	3.60	21	1.57	1.78
			AVG	20.9	0.228	7.55	78	27.4	99	0.06	0.01	15	3.49	17	1.39	1.63
15	Luigi's Restaurant 2131 Davison Rd	13	MIN	17.6	0.223	7.47	76	26.5	96	0.08	0.02	15	3.34	15	0.79	0.74
			MAX	23.7	0.233	7.63	78	27.3	100	0.12	0.10	15	3.45	17	1.34	1.62

			AVG	21.7	0.228	7.53	77	26.8	98	0.10	0.05	15	3.40	16	1.09	1.26
16	Rite-Aid 2838 E. Court St	28	MIN	16.3	0.224	7.44	76	25.7	96	0.05	0.00	14	3.33	10	1.09	1.22
			MAX	22.8	0.233	7.69	84	28.9	106	0.46	0.10	16	3.91	19	1.55	1.67
			AVG	20.7	0.229	7.55	79	27.6	100	0.09	0.02	15	3.52	17	1.31	1.49
17	Liquor Palace 3302 S Dort Hwy	28	MIN	17.3	0.223	7.42	76	25.7	96	0.06	0.00	14	3.33	14	1.15	1.45
			MAX	22.4	0.234	7.71	86	28.9	102	0.15	0.10	16	3.67	22	1.61	1.81
			AVG	20.5	0.228	7.53	79	27.2	99	0.09	0.02	15	3.48	17	1.49	1.63
18	Rite-Aid 3717 Fenton Rd	15	MIN	19.8	0.226	7.43	76	26.5	98	0.13	0.03	15	3.29	17	0.47	1.03
			MAX	23.4	0.233	7.60	80	28.9	104	0.65	0.06	17	3.48	18	1.16	1.33
			AVG	21.9	0.230	7.53	78	27.1	100	0.33	0.05	16	3.41	18	0.91	1.18
19	Neighborhood Engagement Hub 3216 MLK Blvd	0	MIN													
			MAX													
			AVG													
20	Fire House #3 1525 MLK Blvd	14	MIN	19.1	0.225	7.43	78	26.5	96	0.07	0.02	14	3.41	17	0.20	0.58
			MAX	22.5	0.237	7.79	80	28.9	100	0.11	0.03	16	3.53	18	1.20	1.37
			AVG	21.2	0.230	7.53	79	27.3	98	0.09	0.02	15	3.45	17	0.88	1.11
21	510 Leota Ave	14	MIN												0.75	1.00
			MAX												1.32	1.48
			AVG												1.05	1.20
22	Hasselbring Senior Center 1002 W Home St	13	MIN	16.8	0.223	7.41	78	27.3	100	0.09	0.01	15	3.30	15	0.76	1.00
			MAX	19.8	0.232	7.66	80	28.9	100	0.10	0.02	16	3.44	18	1.33	1.46
			AVG	18.6	0.228	7.55	79	28.1	100	0.09	0.02	15	3.38	17	0.97	1.16
23	Sam's Market 4612 Western Rd	14	MIN	16.3	0.222	7.31	76	27.3	100	0.08	0.01	14	3.28	17	1.13	1.25
			MAX	21.8	0.231	7.68	82	28.1	102	0.11	0.02	15	3.51	18	1.78	1.92
			AVG	19.7	0.227	7.54	79	27.8	101	0.09	0.01	14	3.43	17	1.60	1.73
24	Genesee Community Health 3109 Kleinpell St	13	MIN	17.7	0.227	7.50	76	26.5	98	0.09	0.01	14	3.29	17	0.86	0.96
			MAX	21.6	0.235	7.86	80	28.1	100	0.15	0.03	15	3.47	18	1.42	1.55
			AVG	19.8	0.230	7.69	79	27.6	99	0.12	0.02	14	3.36	18	1.03	1.18
25	Fire House #5 3402 Western Rd	14	MIN	18.2	0.229	7.51	78	27.3	96	0.09	0.02	14	3.32	17	0.49	0.95
			MAX	22.2	0.237	7.89	80	28.1	104	0.12	0.02	16	3.43	19	1.46	1.63
			AVG	20.8	0.233	7.79	79	27.7	100	0.11	0.02	15	3.37	18	0.95	1.15
26	Mr. B's Foodland 4311 Dupont St	14	MIN	15.5	0.223	7.41	76	25.7	96	0.07	0.01	14	3.38	12	0.56	0.65
			MAX	19.3	0.230	7.86	80	27.3	100	0.11	0.02	15	3.42	18	1.43	1.60
			AVG	17.7	0.227	7.53	79	26.5	98	0.09	0.01	15	3.40	16	1.26	1.45
27	Marathon Gas 2905 Saginaw St	14	MIN	18.3	0.223	7.36	78	28.1	94	0.09	0.02	14	3.36	16	1.24	1.69
			MAX	23.1	0.231	7.87	80	28.1	98	0.16	0.04	15	3.47	17	1.75	1.90
			AVG	20.4	0.227	7.53	79	28.1	97	0.11	0.03	15	3.43	17	1.58	1.77
28	Flint Institute of Arts 1120 E Kearsley St	14	MIN	18.3	0.220	7.42	76	25.7	98	0.08	0.02	15	3.11	16	0.66	0.77
			MAX	25.3	0.232	7.80	80	28.9	102	0.14	0.03	15	3.20	17	1.51	1.68
			AVG	22.5	0.228	7.54	77	27.0	99	0.11	0.02	15	3.14	17	1.15	1.34
29	Maxi Quality Meats 3440 Lapeer St	14	MIN	17.0	0.224	7.45	76	26.5	96	0.07	0.01	14	3.50	16	0.76	1.33
			MAX	22.2	0.233	7.64	78	28.9	100	0.10	0.03	15	3.56	19	1.59	1.71
			AVG	20.3	0.228	7.53	77	27.6	99	0.09	0.02	15	3.52	18	1.39	1.62
30	ADESA Flint 3711 Western Rd	14	MIN	18.8	0.224	7.36	78	26.5	96	0.08	0.01	14	3.38	17	1.23	1.51
			MAX	22.7	0.231	7.56	80	28.1	100	0.12	0.03	15	3.50	20	1.64	1.75
			AVG	21.2	0.228	7.47	79	27.3	97	0.10	0.02	15	3.44	18	1.47	1.68
8B	Hutchinson's 6509 N Saginaw St	14	MIN	15.4	0.218	7.53	74	25.7	94	0.07	0	13	3.43	14	1.21	1.00
			MAX	20.3	0.233	7.84	80	28.9	102	0.11	0.02	15	3.72	20	1.56	1.83
			AVG	18.5	0.227	7.68	77	26.8	99	0.09	0.0	14.7	3.57	17	1.40	1.62
13B	Painter's Supply 3702 Richfield Rd	9	MIN	15.5	0.220	7.45	78	25.7	96	0.12	0.01	14	3.41	17	0.82	1.01
			MAX	21.2	0.233	7.55	80	27.3	98	0.12	0.02	14	3.47	17	1.63	1.87
			AVG	18.6	0.227	7.49	79	26.5	97	0.12	0.015	14	3.44	17	1.43	1.63
19B	BP Gas Station 3317 MLK Blvd	28	MIN	20.4	0.225	7.21	76	25.7	94	0.06	0.00	14	3.32	15	0.89	1.16
			MAX	25.5	0.239	7.84	84	28.9	104	0.19	0.04	16	3.60	20	1.39	1.52
			AVG	23.7	0.229	7.53	79	27.1	99	0.10	0.02	15	3.44	17	1.17	1.38

Fire event, high flows.