Drinking Water Testing Program
City of Flint Community Data

MDHHS Sampling Event 12 (03/22/2022-03/24/2022)

Section 1: Metals									
Parameter	**Number of locations sampled (number of initial samples/number of flushed samples)**	**Range in initial samples (mg/L)**			**Range in flushed samples (mg/L)**			**US Environmental Protection Agency (US EPA) drinking water value (mg/L)**	**Health-based level (mg/L)**
		Median	**Lowest**	**Highest**	**Median**	**Lowest**	**Highest**		
Aluminum	52 (52 / 52)	0.071	ND	0.4	0.098	ND	0.31	0.05-0.20 (J)	0.3 (D)
Antimony	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.01(F)	0 (G)
Barium	52 (52 / 52)	0.013	ND	0.018	0.013	ND	0.016	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.004 (F)	0.004 (G)
Boron	52 (52 / 52)	ND	ND	ND	ND	ND	ND	Value not established	1.4 (C: chronic for children)
Cadmium	52 (52 / 52)	ND	ND	0.0036	ND	ND	ND	0.005 (F)	0.0007 (C: chronic for children)
Chromium, total	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.1 (F)	0.0063 (C: chronic for children, Cr (VI))[1]

Copper	52 (52 / 52)	ND	ND	0.31	ND	ND	0.042	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G)[2]
Iron	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.30 (J)	2 (D)
Lead	52 (53 / 52)	ND	ND	0.018	ND	ND	0.002	0.015 (A)	0 (G)
Manganese	52 (52 / 52)	ND	ND	0.03	ND	ND	0.028	0.05 (J)	0.3 (E: lifetime)
Molybdenum	52 (52 / 52)	ND	ND	ND	ND	ND	ND	Value not established	0.035 (B: chronic for children)
Nickel	52 (52 / 52)	ND	ND	ND	ND	ND	ND	Value not established	0.1 (E: lifetime)
Selenium	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.05 (F)	0.035 (B, C: chronic for children)
Silver	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.1 (J)	0.035 (C: children – chronic for children)
Thallium	52 (52 / 52)	ND	ND	ND	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	52 (52 / 52)	ND	ND	ND	ND	ND	ND	Value not established	2.1 (C: intermediate children)
Vanadium	52 (52 / 52)	ND	ND	ND	ND	ND	ND	Value not established	0.0045 (D)
Zinc	52 (52 / 52)	ND	ND	0.65	ND	ND	0.24	5 (J)	2 (E: lifetime)

Section 2: Disinfectants, Disinfection Byproducts and Bacteria

Parameter	Number of locations sampled (number of initial samples/number of flushed samples)	Range in initial samples			Range in flushed samples			US Environmental Protection Agency (US EPA) drinking water value	Health-based level (µg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
Chlorine (as Cl_2, mg/L)	52 (52 / 52)	1.08	ND	1.75	1.355	ND	1.87	4 (H)	Learn more here
Haloacetic Acids (HAA5, µg/L)	52 (52 / 52)	21.7	ND	51	20	ND	45.8	60 (F)	Learn more here
Total Trihalomethanes (TTHMs, µg/L)	52 (52 / 52)	22	ND	70	21	ND	43	80 (F)	Learn more here

Section 3: General Chemistry

Parameter	Number of locations sampled (number of initial samples/number of flushed samples)	Range in initial samples			Range in flushed samples			US Environmental Protection Agency (US EPA) drinking water value	Health-based level
		Median	Lowest	Highest	Median	Lowest	Highest		
Calcium (mg/L)	52 (52 / 52)	30	ND	31	30	ND	31	Learn more here	Learn more here
Chloride (mg/L)	52 (52 / 52)	11	10	14	11	11	13	250 (F)	Learn more here
Specific Conductance (µmhos/cm)	52 (52 / 52)	240	210	280	240	210	280	Learn more here	Learn more here
Hardness (as mg/L of $CaCO_3$)	52 (52 / 52)	110	ND	120	110	ND	110	Learn more here	Learn more here
Magnesium (mg/L)	52 (52 / 52)	8.6	ND	9.6	8.6	ND	9	Learn more here	400 (D)

Orthophosphate (mg/L)	52 (52 / 52)	0.885	0.63	1.1	0.89	0.77	1.1	Learn more here	Learn more here
pH (SU)	52 (52 / 52)	8.025	7.65	9.2	7.985	7.71	8.91	6.5 – 8.5 (F)	Learn more here
Sodium (mg/L)	52 (52 / 52)	12	11	53	12	11	53	Learn more here	Learn more here
Sulfate (mg/L)	52 (52 / 52)	26	21	27	26	24	27	250 (F)	500 (E)
Total Alkalinity (mg/L)	52 (52 / 52)	82	36	90	82	30	88	Learn more here	Learn more here
Turbidity (NTU)	52 (52 / 52)	ND	ND	1.4	ND	ND	1.3	Learn more here	Learn more here