

# Drinking Water Testing Program

## City of Flint Community Data

Multiple labs were used for this drinking water project with some samples going to more than one lab. Initial and flushed water samples from sampling events 6 and 7 were sent to Paragon Lab. Some of the flushed water samples from these sampling events were also sent to Trace Analytical Laboratories, Inc. (Trace Lab) and the Michigan Department of Energy and Great Lakes Environmental Laboratory (EGLE Lab). This was done to make sure that the results were accurate. Homes that had water testing during these sampling events received results in the mail from each lab that tested their water. Below are the results from EGLE Lab.

### MDHHS Sampling Event 6 EGLE Lab (11/02/2021-11/04/2021)

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	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.11	ND	0.53	0.05-0.20 (J)	0.3 (D)
Antimony	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.01(F)	0 (G)
Barium	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.014	ND	0.017	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.004 (F)	0.004 (G)

<b>Boron</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	1.4 (C: chronic for children)
<b>Cadmium</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.005 (F)	0.0007 (C: chronic for children)
<b>Chromium, total</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.0012	ND	0.0016	0.1 (F)	0.0063 (C: chronic for children, Cr (VI)) <sup>1</sup>
<b>Copper</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.00455	ND	0.052	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G) <sup>2</sup>
<b>Iron</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.17	ND	0.21	0.30 (J)	2 (D)
<b>Lead</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.015 (A)	0 (G)
<b>Manganese</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	0.02	0.05 (J)	0.3 (E: lifetime)
<b>Molybdenum</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	0.035 (B: chronic for children)
<b>Nickel</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	0.0022	Value not established	0.1 (E: lifetime)
<b>Selenium</b>	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.05 (F)	0.035 (B, C: chronic for children)
<b>Silver</b>	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.1 (J)	0.035 (C: children – chronic for children)

Thallium	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Value not established	2.1 (C: intermediate children)
Vanadium	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	0.0045 (D)
Zinc	25 ( 0 / 26 )	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	0.024	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		
Haloacetic Acids (HAA5, µg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	60 (F)	<a href="#">Learn more here</a>
Total Trihalomethanes (TTHMs, µg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	80 (F)	<a href="#">Learn more here</a>

## Section 3: General Chemistry

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<b>Total Alkalinity (mg/L)</b>	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	<a href="#">Learn more here</a>	<a href="#">Learn more here</a>
<b>Turbidity (NTU)</b>	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	<a href="#">Learn more here</a>	<a href="#">Learn more here</a>