

Drinking Water Testing Program

City of Flint Community Data Summary

Overview

In partnership with the City of Flint and the Department of Environment, Great Lakes, and Energy (EGLE) the Michigan Department of Health and Human Services (MDHHS) is supporting the current Flint water infrastructure project with the drinking water testing program. This is a program where MDHHS offers free water sampling and testing to residents in communities with current and past action level exceedances. The program will provide water quality information on residential tap water to protect public health. This will help to ensure that residents are getting clean water, and it will help to protect public health.

Secondary Water Source Project: Water Blend Stages

The table below provides the start date of the water blending between Great Lakes Water Authority (GLWA) and the secondary water source, Genesee County Drain Commissioner (GCDC). Water samples for this effort were collected after the blend start dates.

Blend Stage Start	Water Blend GLWA/GCDC	Status
8/23/2021	95% GLWA / 5% GCDC	Completed
9/30/2021	75% GLWA / 25% GCDC	Completed
10/11/2021	50% GLWA / 50% GCDC	Completed
10/26/2021	25% GLWA / 75% GCDC	Completed
12/13/2021	50% GLWA / 50% GCDC	Completed
01/18/2022	0% GLWA / 100% GCDC	Ongoing
02/2022	95% GLWA / 5% GCDC	Tentatively Scheduled

* Projected date for blend stage start, subject to change. For more information visit <https://www.cityofflint.com/progressreport/>.

Select from the options below to learn about the community's data summary.

		
Community Data Summary	All Water Quality Parameters' Sample Results	How to Read Results Tables

Community Data Summary Results

On this page, you will find a data summary of water test results completed in the City of Flint as part of this program. Water samples were collected throughout the community from multiple sampling events.

Select the [sampling event](#) you are interested in reviewing. Each sampling event will show a data summary table with the most recent test results data that has been processed and summarized. As new results are processed, a new sampling event table will be added with those results. These results do not provide, and are not meant to be, a complete summary of the findings. If a value in the table says "ND", it means the value is below the detection limit and considered as non-detect.

MDHHS Sampling Event 4 (10/05/2021- 10/07/2021)

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	58 (58 / 58)	0.043	ND	0.18	0.0455	ND	0.14	0.05-0.20 (J)	0.3 (D)
Antimony	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.01(F)	0 (G)
Barium	58 (58 / 58)	0.013	ND	0.015	0.013	ND	0.014	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.004 (F)	0.004 (G)
Boron	58 (58 / 58)	0.015	0.014	0.026	0.015	0.014	0.027	Value not established	1.4 (C: chronic for children)
Cadmium	58 (58 / 58)	ND	ND	0.0014	ND	ND	0.00037	0.005 (F)	0.0007 (C: chronic for children)
Chromium, total	58 (58 / 58)	0.0014	ND	0.0021	0.0014	ND	0.0019	0.1 (F)	0.0063 (C: chronic for children, Cr (VI)) ¹

Copper	58 (58 / 58)	0.00885	ND	0.22	0.0043	ND	0.11	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G) ²
Iron	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.30 (J)	2 (D)
Lead	58 (58 / 58)	ND	ND	0.0011	ND	ND	ND	0.015 (A)	0 (G)
Manganese	58 (58 / 58)	ND	ND	0.0033	ND	ND	0.0027	0.05 (J)	0.3 (E: lifetime)
Molybdenum	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	0.035 (B: chronic for children)
Nickel	58 (58 / 58)	0.0023	ND	0.0065	0.0022	ND	0.0036	Value not established	0.1 (E: lifetime)
Selenium	58 (58 / 58)	ND	ND	0.0013	ND	ND	0.0012	0.05 (F)	0.035 (B, C: chronic for children)
Silver	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.1 (J)	0.035 (C: children – chronic for children)
Thallium	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	2.1 (C: intermediate children)
Vanadium	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	0.0045 (D)
Zinc	58 (58 / 58)	ND	ND	0.24	ND	ND	0.066	5 (J)	2 (E: lifetime)

Section 2: Disinfectants, Disinfection Byproducts and Bacteria

Parameter	Number of locations sampled (number of	Range in initial samples	Range in flushed samples	US Environmental Protection Agency (US	Health-based level (µg/L)
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	initial samples/number of flushed samples)	Median	Lowest	Highest	Median	Lowest	Highest	EPA) drinking water value	
Chlorine (as Cl ₂ , mg/L)	58 (58 / 57)	0.95	ND	1.9	1.32	ND	1.95	4 (H)	Learn more here
Haloacetic Acids (HAA5, µg/L)	58 (58 / 58)	24.5	1.2	44	24	ND	33	60 (F)	Learn more here
Total Trihalomethanes (TTHMs, µg/L)	58 (58 / 58)	31	21	73	29	22	60	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)	58 (58 / 58)	26	ND	28	26	ND	28	Learn more here	Learn more here
Chloride (mg/L)	58 (58 / 58)	12	11	13	12	11	13	250 (F)	Learn more here
Specific Conductance (µmhos/cm)	58 (58 / 58)	230	210	250	230	220	250	Learn more here	Learn more here
Hardness (as mg/L of CaCO ₃)	58 (58 / 58)	94	ND	100	94	ND	100	Learn more here	Learn more here
Magnesium (mg/L)	58 (58 / 58)	7.4	ND	8.5	7.4	ND	8.4	Learn more here	400 (D)
Orthophosphate (mg/L)	58 (58 / 58)	0.94	0.66	1.1	0.94	0.64	1	Learn more here	Learn more here
pH (SU)	58 (58 / 58)	7.8	7.5	8.1	7.8	7.5	8	6.5 – 8.5 (F)	Learn more here
Sodium (mg/L)	58 (58 / 58)	8.2	7.8	72	8.2	7.7	70	Learn more here	Learn more here

Updated 01/21/2022

Sulfate (mg/L)	58 (58 / 58)	19	18	20	19	17	20	250 (F)	500 (E)
Total Alkalinity (mg/L)	58 (58 / 58)	70	60	80	70	60	80	Learn more here	Learn more here
Turbidity (NTU)	58 (58 / 58)	0.05	ND	0.56	ND	ND	0.53	Learn more here	Learn more here

Select from the options below to learn about the community's data summary.

		
All Water Quality Parameters' Sample Results	How to Read Results Tables	Overview

All Water Quality Parameters' Sample Results (PAGE)

Each grouping of water quality parameters will be separated out into tables to provide a data summary of each sampling event. The tables are grouped by 1) metals, 2) disinfectants / disinfection byproducts, and bacteria, and 3) general water chemistry.

Tables will show aggregated data for each sampling event completed.

Section 1: Metal Sampling Results

Certain conditions can cause metals from your home's plumbing to release into your drinking water. Some metals may also come from the source water. Too much metal in drinking water can be a health concern. Metals can be found dissolved in water and in small pieces called particulates. MDHHS tested water samples for the total amount of each metal, dissolved and particulates. MDHHS also tested water samples for dissolved lead, copper, iron, and manganese. These results were used to calculate the amount of metal particulate in the water.

Aluminum

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.043	ND	0.18	0.0455	ND	0.14	0.05-0.20 (J)	0.3 (D)

Antimony

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)

Arsenic

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.01(F)	0 (G)

Barium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.013	ND	0.015	0.013	ND	0.014	2 (F)	0.7 (E: 1/10-day for children)

Beryllium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.004 (F)	0.004 (G)

Updated 01/21/2022

Boron

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.015	0.014	0.026	0.015	0.014	0.027	Value not established	1.4 (C: chronic for children)

Cadmium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	0.0014	ND	ND	0.00037	0.005 (F)	0.0007 (C: chronic for children)

Chromium, total

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		

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10/05/2021-10/07/2021									0.1 (F)	0.0063 (C: chronic for children, Cr (VI))1
	58 (58 / 58)	0.0014	ND	0.0021	0.0014	ND	0.0019			

Copper

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021								1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G)2
	58 (58 / 58)	0.00885	ND	0.22	0.0043	ND	0.11		

Iron

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021								0.30 (J)	2 (D)
	58 (58 / 58)	ND	ND	ND	ND	ND	ND		

Lead

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
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Updated 01/21/2022

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	0.0011	ND	ND	ND	0.015 (A)	0 (G)

Manganese

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	0.0033	ND	ND	0.0027	0.05 (J)	0.3 (E: lifetime)

Molybdenum

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	0.035 (B: chronic for children)

Updated 01/21/2022

Nickel

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.0023	ND	0.0065	0.0022	ND	0.0036	Value not established	0.1 (E: lifetime)

Selenium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	0.0013	ND	ND	0.0012	0.05 (F)	0.035 (B, C: chronic for children)

Silver

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.1 (J)	0.035 (B, C: chronic for children)

Updated 01/21/2022

Thallium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	0.002 (F)	0.0002 (I)

Tin

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	2.1 (C: intermediate children)

Vanadium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	ND	ND	ND	ND	Value not established	0.0045 (D)

Zinc

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	ND	ND	0.24	ND	ND	0.066	5 (J)	2 (E: lifetime)

Section 2: Disinfectant, Disinfection Byproducts, and Bacteria Sampling Results

Community public water supplies add chemicals like chlorine³ to help improve the quality of water delivered to homes. These chemicals may also generate disinfection byproducts (DBPs)⁴ during the disinfection process. Chlorine is an effective way to remove bacteria from the water. But swallowing water with too much chlorine or DBPs or inhale too much while showering over time can be a health concern. The water may have also be tested for coliform bacteria if the chlorine level was low. MDHHS and the city of Flint will follow up with residents if any bacteria is found in the result.

Chlorine (as Cl₂)

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest	
10/05/2021-10/07/2021	58 (58 / 57)	0.95	ND	1.9	1.32	ND	1.95	4 (H)

Haloacetic Acids (HAA5)

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (µg/L)			Range in flushed samples (µg/L)			Health -based Value (µg/L)
		Median	Lowest	Highest	Median	Lowest	Highest	

Updated 01/21/2022

10/05/2021-10/07/2021	58 (58 / 58)	24.5	1.2	44	24	ND	33	60 (F)
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Total Trihalomethanes (TTHMs)

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (µg/L)			Range in flushed samples (µg /L)			Health -based Value (µg/L)
		Median	Lowest	Highest	Median	Lowest	Highest	
10/05/2021-10/07/2021	58 (58 / 58)	31	21	73	29	22	60	80 (F)

Section 3: General Chemistry Sampling Results

General chemistry is a group of water quality parameters that measure how corrosive the water is. Testing the water for these parameters will provide an understanding of how well the corrosion control works in households. Many of the parameters in this group are not chemicals and do not cause health problems directly by themselves. The City of Flint measures the water quality parameters in water samples collected from the blending site and other pipes that carries drinking water from the plant to homes.

Calcium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	26	ND	28	26	ND	28	Learn more here	Learn more here

Updated 01/21/2022

Chloride

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	12	11	13	12	11	13	250 (F)	Value not established

Specific Conductance

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (µmhos/cm)			Range in flushed samples (µmhos/cm)			US EPA Drinking Water Value	Health -based Value
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	230	210	250	230	220	250	Value not established	Value not established

Hardness

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (as mg/L of CaCO ₃)			Range in flushed samples (as mg/L of CaCO ₃)			US EPA Drinking Water Value	Health -based Value
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	94	ND	100	94	ND	100	Value not established	Value not established

Updated 01/21/2022

Magnesium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	7.4	ND	8.5	7.4	ND	8.4	Value not established	Value not established

Orthophosphate

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.94	0.66	1.1	0.94	0.64	1	Value not established	Value not established

pH

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (SU)			Range in flushed samples (SU)			US EPA Drinking Water Value (SU)	Health -based Value (SU)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	7.8	7.5	8.1	7.8	7.5	8	6.5 – 8.5 (F)	Value not established

Updated 01/21/2022

Sodium

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	8.2	7.8	72	8.2	7.7	70	Value not established	Value not established

Sulfate

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	19	18	20	19	17	20	250 (F)	500 (E)

Total Alkalinity

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	70	60	80	70	60	80	Value not established	Value not established

Turbidity

Samples Collected Range	Number of locations sampled (number of initial samples/numbers of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US EPA Drinking Water Value (mg/L)	Health -based Value (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
10/05/2021-10/07/2021	58 (58 / 58)	0.05	ND	0.56	ND	ND	0.53	Value not established	Value not established

Select from the options below to learn about the community’s data summary.

		
Community Data Summary	How to Read Results Tables	Overview

[How to Read Results Tables \(PAGE\)](#)

- **Parameter**
 - A parameter is the metal, chemical, or other characteristic of the water that was tested for. Water samples were tested for each parameter listed in the table above.
 - See the “Important Information about Water Parameters Measured in the Water” fact sheet to learn more about each parameter.
- **Number of locations sampled**
 - Sometimes it is not possible to collect an initial (first) water sample and a flushed (second) water sample at each building. This column shows, for a single sampling event, the Number of locations where initial or flushed samples were collected.

- **Range in initial samples**
 - Range will show the lowest and highest amount found in initial samples for the parameter.
- **Range in flushed samples**
 - Range will show the lowest and highest amount found in flushed samples for the parameter.
- **Number of locations with resampling**
 - The number of locations that have been resampled due to one or more water quality parameter needing further evaluation.
 - * (or numeric superscript) explains why a building was resampled for a certain parameter.
- **USA EPA Drinking Water Values**
 - These are based on drinking water standards established by federal or state agencies. Drinking water values have been set to protect human health using the best available scientific research. After each number, a letter is provided to show which agency established (created) that value. At the end of the tables under “Value Description” you will find the letters, screening level name, and a description.
- **Health-based Level**
 - Health-based screening values have been set using the best available scientific research. After each number, a letter is provided to show which agency established (created) that value.

Units of Measurement

- mg/L = milligrams per liter
- µg/L = micrograms per liter
- µmhos/cm = microhos per centimeter
- NTU = Nephelometric Turbidity Units
- SU= Standard Unit

Value Descriptions

- A. Action Level (AL):** The Level of a contaminant that requires action when too high. The concentration of lead or copper, if exceeded in over 10% of homes tested, triggers treatment and other actions.
- B. Agency for Toxic Substances and Disease (ATSDR) Reference Dose Media Evaluation Guide (RMEG):** The highest amount of a chemical a child can be exposed to in drinking water for more than one year and no harm would be expected. Learn more at <https://www.atsdr.cdc.gov/hac/phamanual/appf.html>.

- C. ATSDR Registry Environmental Media Evaluation Guide (EMEG):** The highest amount of a chemical a child can be exposed to in drinking water for more than one year and no harm would be expected (health effects other than cancer). Learn more at <https://www.atsdr.cdc.gov/hac/phamanual/appf.html>.
- D. Department of Environment, Great Lakes, and Energy (EGLE) 201 Cleanup Criteria:** The cleanup criteria are the risk-based screening levels developed by EGLE (formerly Michigan Department of Environmental Quality) for corrective actions. When the Part 201 Criterion for a chemical is an aesthetic level below a health-based value, the health-based value is also provided as a footnote in the document.
- E. U.S. EPA Health Advisory (HA):** The level of a contaminant in drinking water below which no harm is expected during short-term or a lifetime of exposure.
- F. U.S. EPA Maximum Contaminant Level (MCL):** The level of a contaminant not allowed to go over (exceed) in drinking water. This level is set as close to the MCLG (defined below) as feasible and taking cost into consideration.
- G. U.S. EPA Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in water at which no known or expected health problems would occur.
- H. U.S. EPA Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- I. U.S. EPA Regional Screening Level (RSL):** The amount of a chemical in drinking water that is not expected to harm a child's health (health effects other than cancer). This is considered protective for adults too. Learn more at <https://www.epa.gov/risk/regional-screening-levels-rsls>.
- J. U.S. EPA Secondary Maximum Contaminant Level (sMCL):** The level of a contaminant that is recommended but not required to follow. Usually, this value is about the look, taste, and smell of water.

Select from the options below to learn about the community's data summary.

		
Community Data Summary	All Water Quality Parameters' Sample Results	Overview

Updated 01/21/2022