

2022 Water Quality Report for the Village of Howard City

Water Supply Serial Number: 03240

This report covers the drinking water quality for the Village of Howard City for the 2022 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2022. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (U.S. EPA) and state standards.

Your water comes from 2 groundwater wells, each over 170 feet deep. The State performed an assessment of our source water to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "very-high" based on geologic sensitivity, well construction, water chemistry and contamination sources. The susceptibility of our source is for well 5 is "low" and for well 3 is "moderate". There are no significant sources of contamination in our water supply. We are making efforts to protect our sources with daily, monthly, and annual testing, hydrant flushing and monitoring for future contaminant sources.

If you would like to know more about this report, please contact Village Manager Michael Falcon at the Village Municipal Complex located at 125 E. Shaw Street. He may also be contacted by phone at 231-937-4311 ext. 103 or by email at: mfalcon@howardcity.org.

Contaminants and their presence in water: Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (800-426-4791).

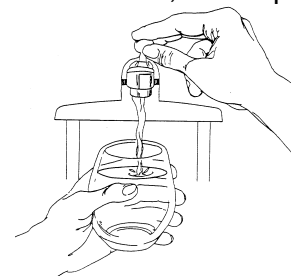
Vulnerability of sub-populations: Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune systems disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA/Center for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other

microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Sources of drinking water: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. Our water comes from wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.



In order to ensure that tap water is safe to drink, the U.S. EPA prescribes regulations that limit the levels of certain contaminants in water provided by public water systems. Federal Food and Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2022 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk.

Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2022. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All the data is representative of the water quality, but some are more than one year old.

Terms and abbreviations used below:

- Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- 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.
- Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
 - N/A: Not applicable
 - ppm: parts per million or milligrams per liter
 - ppb: parts per billion or micrograms per liter
 - ppt: parts per trillion or nanograms per liter
 - pCi/l: picocuries per liter (a measure of radioactivity)
- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

1 Monitoring Data for Regulated Contaminants

Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Barium (ppm)	2	2	.04-.05	N/A	2015	No	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Nitrate (ppm)	10	10	0	N/A	2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride (ppm)	4	4	0.29	N/A	2022	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Sodium ¹ (ppm)	N/A	N/A	26	N/A	2022	No	Erosion of natural deposits
TTHM Total Trihalomethanes (ppb)	80	N/A	32	N/A	2022	No	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	60	N/A	6	N/A	2022	No	Byproduct of drinking water disinfection
Chlorine ² (ppm)	4	4	0.62	.07-1.07	2022	No	Water additive used to control microbes
Alpha emitters (pCi/L)	15	0	1.02	.725-1.02	2015	No	Erosion of natural deposits
Combined radium (pCi/L)	5	0	1.07	0.31-1.07	2015	No	Erosion of natural deposits
Total Coliform	TT	0	0	N/A	2022	No	Naturally present in the environment

¹ Sodium is not a regulated contaminant.

² The chlorine "Level Detected" was calculated using a running annual average.

Per- and polyfluoroalkyl substances (PFAS)							
Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	N/A	0	N/A	2022	No	Discharge and waste from industrial facilities utilizing the Gen X chemical process
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	0	N/A	2022	No	Discharge and waste from industrial facilities; stain-resistant treatments
Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	0	N/A	2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	0	N/A	2022	No	Firefighting foam; discharge and waste from industrial facilities
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	0	N/A	2022	No	Discharge and waste from industrial facilities; breakdown of precursor compounds
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	0	N/A	2022	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	0	N/A	2022	No	Discharge and waste from industrial facilities; stain-resistant treatments
Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ³	Range of Results	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb)	15	0	0	0-0	2021	0	Lead service lines, corrosion of household plumbing including fittings and fixtures; Erosion of natural deposits
Copper (ppm)	1.3	1.3	.20	0-.20	2021	0	Corrosion of household plumbing systems; Erosion of natural deposits

³ Ninety (90) percent of the samples collected were at or below the level reported for our water.

Information about lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village of Howard City is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you have a lead service line it is recommended that you run your water for at least 5 minutes to flush water from both your home plumbing and the lead service line. If you are concerned about lead in your water, you may wish to have your water tested.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Monitoring and Reporting to the Department of Environment, Great Lakes, and Energy (EGLE) Requirements: The State of Michigan and the U.S. EPA require us to test our water on a regular basis to ensure its safety. [IF YOU MET U.S. EPA AND STATE REQUIREMENTS USE THIS SENTENCE:] We met all the monitoring and reporting requirements for 2022.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at the Howard City Village Office and viewable online at <https://www.howardcity.org>. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. Regular Council meetings take place at the Howard City Municipal Complex on the 3rd Monday of each month at 7pm. For more information about your water, or the contents of this report, contact Mike Falcon, Village Manager, at 231-937-4311 ex.103 or the water department at hcdms@howardcity.org. For more information about safe drinking water, visit the U.S. EPA at www.epa.gov/safewater/.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER MONITORING REQUIREMENTS NOT MET FOR THE VILLAGE OF HOWARD CITY

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During September 1 to September 30, 2022, we did not monitor or test for Total Trihalomethanes/Haloacetic Acids and, therefore, cannot be sure of the quality of your drinking water during that time.

In reference to the above monitoring requirement, samples **were** drawn by DPW personnel and sent out, however the samples were pulled from the **wrong address**. The DPW was notified by EGLE, and the samples were taken from the proper location. The sample was collected from the correct location on October 11, 2022, and the water system was back into compliance upon analysis on October 12, 2022.

During this time, we did conduct our daily testing of the residual and total chlorine levels in our system.

What should I do?

There is nothing you need to do at this time. This is not an emergency. You do not need to boil water or use an alternative source of water at this time. Even though this is not an emergency, as our customers, you have a right to know what happened and how it was corrected.

The table below lists the contaminant that was not analyzed for, how often we are supposed to sample for this contaminant, how many samples should have been analyzed, and the date we collected follow-up samples.

Contaminant	Required sampling Frequency	Number of samples analyzed	When all samples should have been analyzed	Date additional samples were taken
Total Trihalomethanes- Haloacetic Acids	1 sample per Year	0	September 1, 2022- September 30, 2022	October 11, 2022

What happened? What is being done?

Although the samples were taken, we missed having them analyzed during this required sampling period due to a sampling location error. After being made aware of this, we resampled on October 11, 2022, and returned to compliance on October 12, 2022. We are making every effort to ensure this does not happen again.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartment, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information on this, please contact Village Manager Michael Falcon.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at the Village of Howard City Municipal Complex at 125 E. Shaw Street. This report will not be automatically sent to you.

We invite public participation in decisions that affect drinking water quality. The Village has regularly scheduled Council meetings on the third Monday of each month. The public is welcome to attend. For more information about your water, or the contents of this report, contact Michael Falcon at 231-937-4311 ex.103 or by email at mfalcon@howardcity.org. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.

