

2022 Water Quality Report for **Madison Charter Township**

Water Supply Serial Number: MI0004006

This report covers drinking water quality 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 two groundwater wells, each over 160ft in depth. The State performed an assessment of our source water to determine the susceptibility of the relative potential of contamination. The susceptibility rating is on a seven tiered scale from "very-low" to "very-high" based on geologic sensitivity, wel construction, water chemistry and contamination sources. The susceptibility o our source is termed "moderately low" (tier 3 of 7).

There are no significant sources of contamination in our water supply. We are continuously making efforts to protect our water source; we have developed a provisional well head protection program that will be completed in the nea If you would like to know more about this report, please contact: Tim Watterso

Microbial contaminants, such as viruses and bacteria, which ma

- come from sewage treatment plants, septic systems, agricultural livestoc operations and wildlife. Inorganic contaminants, such as salts and metals, can be naturally
- occurring or result from urban stormwater runoff, industrial or domestiwastewater discharges, oil and gas production, mining or farming Pesticides and herbicides, which may come from a variety of source
- such as agriculture and residential uses. Radioactive contaminants, which can be naturally occurring or be th
- result of oil and gas production and mining activities. Organic chemical contaminants, including synthetic and volatile organi
- chemicals, which are by-products of industrial processes and petroleur production, and can also come from gas stations, urban stormwater runof and septic systems.



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 doe 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 Copper (ppm) 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
- using the best available treatment technology.
- 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.
- N/A: Not applicable
- ND: not detectable at testing limit
- 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/I: 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.

Nitrate (ppm) 10 10 ND 0-10 2022 NO Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	Regulated Contaminant	or MRDL	or MRDLG		Range	Year Sampled	Violation Yes/No	Typical Source of Contaminant				
	Nitrate (ppm)	10	10	ND	0-10	2022	NO	use; Leaching from septic tanks, sewage; Erosion of natural				

ı	Fluoride (ppm)	4	4	0.47	0.10-4	2021	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	
	Sodium (ppm)	N/A	N/A	17	0.5- 120	2021	NO	Erosion of natural deposits	
s, S. te or n-	TTHM Total Trihalomethanes (ppb)	80	N/A	41.5	0-80	2022	NO	Byproduct of drinking water disinfection	
	HAA5 Haloacetic Acids (ppb)	60	N/A	7	0-60	2022	NO	Byproduct of drinking water disinfection	
	Chlorine (ppm)	4	4	0.45	0.15- 1.4	2022	NO	Water additive used to control microbes	
	Gross Alpha emitters (pCi/L)	15	0	<3.83	0-3.83	2022	NO	Erosion of natural deposits	
	Gross Beta (pCi/L)	5	0	<2.52	0-2.52	2022	NO	Erosion of natural deposits	
	Radium 226 & 228 (pCi/L)	5	0	±0.448 0.590±	0.488- 0.590	2022	NO	Erosion of natural deposits	
e	¹ Sodium is not a regulated contaminant.								

continuously making efforts to protect our water source; we have developed	Socium is not a regulated contaminant.									
a provisional well head protection program that will be completed in the near future.										
	Per- and polyfluoroalkyl substances (PFAS)									
If you would like to know more about this report, please contact: Tim Watterson at Madison Charter Township at 517-263-9313	Regulated Contaminant	MCL, TT, or	MCLG or	Level Detected	Range	Year Sampled	Violation Yes/No	Typical Source of		
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).	Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	MRDLG N/A	ND	2	2022	NO	Contaminant Discharge and waste from industrial facilities utilizing the Gen X		
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	Perfluorobutane sulfonic acid (PFBS)	420	N/A	ND	2	2022	NO	chemical process Discharge and waste from industrial		
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-	(ppt)				_			facilities; stain-resistant treatments Firefighting		
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	Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	ND	2	2022	NO	foam; discharge and waste from industrial facilities		
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:	Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	ND	2	2022	NO	Firefighting foam; discharge and waste from industrial		
• Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.								facilities Discharge and waste		
• Inorganic contaminants, such as salts and metals, can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.		6	N/A	ND	2	2022	NO	from industrial facilities; breakdown of precursor		
• Pesticides and herbicides, which may come from a variety of sources such as agriculture and residential uses.								compounds Firefighting		
 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 	Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	ND	2	2022		foam; discharge from electroplating facilities; discharge and		
production, and can also come from gas stations, urban stormwater runoff, and septic systems.								waste from industrial facilities		
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	Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	ND	2	2022	NO	Discharge and waste from industrial facilities; stain-resistant treatments		
	Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water	Range of Results	Year Sampled		Typical Source of Contaminant		
							7.2	Lead service lines, corrosion of household		
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	Lead (ppb)	15	0	90th Percentile=3	0-60	2020	NO	plumbing including fittings and fixtures; Erosion of natural		
The table below lists all the drinking water contaminants that we detected during								deposits Corrosion of		
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 a testing done. Japuary 1, through	Copper (ppm)	1.3	1.3	90th	0-0.36	2020	NO	household plumbing		

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

percentile=

0.3

2020

NO

systems;

Erosion

of natural

deposits

1.3

1.3

Lead AL exceedance for 1 sample was result of improper sampling techniques; repeat sample resulted in ND. Information about lead and copper in drinking Water: If present, elevated levels of lead can cause serious health problems, especially for Maximum Contaminant Level (MCL): The nignest level of a contaminant trial pregnant women and young children. Lead in drinking water is primarily is allowed in drinking water. MCLs are set as close to the MCLGs as feasible from materials and components associated with service lines and home wising the best available treatment technology.

plumbing. Madison Charter Township is responsible for providing high Maximum Residual Disinfectant Level (MRDL): The highest level of a 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 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 800-426-4791or at http://www.epa.gov/safewater/lead. Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Infants and children who drink water containing lead could experience delays in their physical or mental development.

> Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney

> damage. People with Wilson's Disease should consult their personal doctor. 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 upon request at 3804 S. Adrian Hwy, Adrian, MI 49221, or view online at www.

madisontwp.com. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. For more information about your water, or the contents of this report, contact Tim Watterson at Madison Charter Township 517-263-9313 or visit www. Madisontwp.com For more information about safe drinking water, visit the U.S. EPA at http://www.epa.gov/safewater.