

2020 Water Quality Report for Napoleon Township

Water Supply Serial Number: 04605

This report covers the drinking water quality Napoleon Township for the 2020 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2020. 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 100 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 [High].

There are no significant sources of contamination in our water supply. We are making efforts to protect our sources by being members of the Jackson County Well head protection program to help protect our drinking water source

If you would like to know more about this report, please contact: Napoleon Township, 6755 Brooklyn Rd. Napoleon, Mi. 49261 or call 517-536-8694 or you may visit our website at www.Napoleontownship.us

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

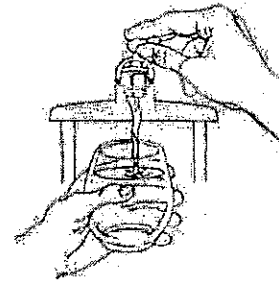
surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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 2020 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, 2020. 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
- ND: not detectable at testing limit
- lD.fl: parts per million or milligrams per liter
- IW-b.: parts per billion or micrograms per liter
- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Monitoring Data for Regulated Contaminants

Regulated Contaminant	MCL, TT Or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violations YES/NO	Typical
Sodium ¹ (ppm)	N/A	N/A	3.8	0-3.8	2020	NO	Erosion c

¹ Sodium is not a regulated contaminant.

Per- and polyfluoroalkyl substances (PFAS)							
Regulated Contaminant	MCL, TT, Or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sample	Violation Yes/No	Typical Sc
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ppt)	370	N/A	0	N/A	2018	NO	Discharge and utilizing the C
Perfluorobutane sulfonic acid (PFBS) (ppt)	420	N/A	0	N/A	2018	NO	Discharge and facilities; stai
Perfluorohexane sulfonic acid (PFHxS) (ppt)	51	N/A	0	N/A	2018	NO	Firefighting f from industria
Perfluorohexanoic acid (PFHxA) (ppt)	400,000	N/A	0	N/A	2018	NO	Firefighting f from industria
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	0	N/A	2018	NO	Discharge and facilities; brea
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	0	N/A	2018	NO	Firefighting f electroplating from industria
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	0	N/A	2018	NO	Discharge and facilities; stai
Inorganic Contaminant Subject to Action Levels (AL)	Action Level	MCLG	Your Water ²	Range of Results	Year Sampled	Number of Samples Above AL	Typical Sc
Lead (ppb)	15	0	4.5	0.001 - 0.007	Sept 2019	No	Lead service l plumbing incl Erosion of na
Copper (ppm)	1.3	1.3	.12	0.10 - 0.14	Sept 2019	No	Corrosion of l Erosion of na

² Ninety (90) percent of the samples collected were at or below the level reported for our water.

Additional Monitoring

Unregulated contaminants are those for which the U.S. EPA has not established drinking water standards. Monitoring helps the U.S. EPA determine where certain contaminants occur and whether regulation of those contaminants is needed. During the monitoring period from June 1, 2020 to June 30, 2020 we did not take the required number of routine samples for routine compliance monitoring. This violation did not pose a threat to the quality of the drinking water. Due to the Covid 19 restrictions and the closure of many facilities at this time the sample accidentally was missed. Once this was realized, a new sample was taken and sent to the lab and the testing process was back on track.

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. Napoleon Township 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 <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.

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.

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. We met all the monitoring and reporting requirements for 2020.

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 Napoleon Township Offices. This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. The Napoleon Township Board meets on the second Tuesday of each month at 6:00 pm. For more information about your water, or the contents of this report, contact Dwight VanWinkle Water System Operator at 517-788-4113 ext. 247. For more information about safe drinking water, visit the U.S. EPA at <http://www.epa.gov/safewater>.