

Hannahville Indian Community



2022 Water Quality Report

Hannahville Indian Community's public drinking water system exceeded all quality standards in 2022. This report provides information where your drinking water comes from, how it's treated, and results from quality testing.

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

A Message from the Water Department:

"Delivering high-quality drinking water to our consumers is a job we take seriously and ensure the water is safe for all members of our community." Supervisor, Dan Stein.

Operators: Tom Broeders, Steve Javurek, Roxanne Miller, Kevin Moreau.

Hannahville Water Operations

N14911 Hannahville B-1 Road ♦ Wilson, MICHIGAN 49896 ♦ 906.723.2200

2022 Water Quality Report



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Be Involved

Meetings concerning your public water supply and its decision making on water quality can be discussed at monthly Tribal Council Meetings which are typically held the first Monday of each month at the Administration Building at N14911 B-1 Road, Wilson, MI 49896. Please call the administration at 906.723.2600 for meeting information. Up-to-date Water Dept information is posted on our Facebook page titled, "Hannahville Water Operations", and flyers would be posted at the following locations: Island Oasis, Administration Building, Health Center, Hannahville School, and the Elder's Buildings.

The Drinking Water System

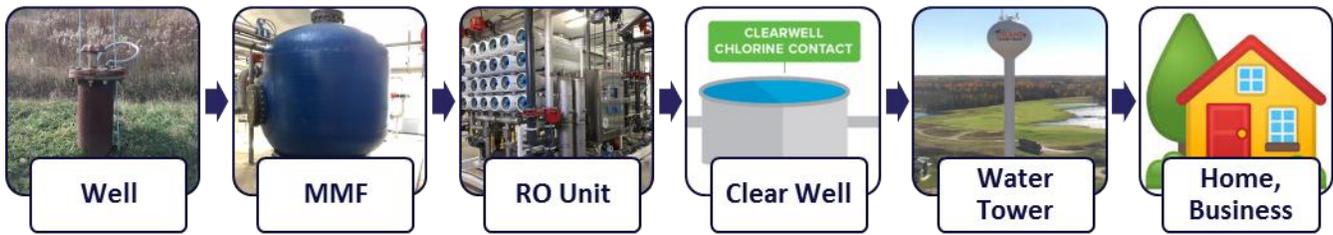
Hannahville's Public Drinking Water System serves 221 connections of which 147 are single family homes located on Balsam Lane, Cedar Drive, Cedarview Drive, Deer Ridge, Eagle Road, Maple Drive, Oak Road, Pine Drive, Ridge Road, Ridgeview Road, Spike horn Ridge, Sunrise Lane, Tamarack Lane, and Willow Road. Some homes on B-1 Road and 38th Road. The remaining connections: Island Resort & Casino and its Warehouse, Island Oasis/Pharmacy, Administration Offices, Hannahville Indian School, its Bus Garage and Green Houses, Environmental Office/Homemakers, Health Center, RV Park, Housing Office and its Construction Building, Community Center, 6 Elder's Complexes, Well House 1 & 2, Water Treatment Plant, Wastewater Treatment Plant, and the Bus Garage for Bark River School.

Where your water comes from

Your source water supply originates as water beneath the surface of the Earth, called Groundwater. It is naturally filtered as it travels through soil and rocks. Hannahville's water system has two wells, Well 3 and 5, located near the Island Resort & Casino that pump groundwater (well water) to the Water Treatment Plant. Our Source Water Protection and Well Head Protection Program is an assessment that consists of identifying the area around the wells, which need to be protected from contamination, and determining the susceptibility of the wells to contamination. Because the water we drink comes from underground wells, we need to be careful how we dispose of harmful contaminants. An assessment provides us with the information we need, as a community to make sure our drinking water is safe now and in the future. This report is at Hannahville Environmental Offices 906.723.2296.



Hannahville's Water Treatment Plant Process



Well water is first pumped through a Multi-Media Filter (MMF), which uses anthracite, sand, and garnet to remove small particles such as dirt and rust. This pre-filtered well water is further treated through a Reverse Osmosis Unit, (RO Unit), which forces water through semi-permeable membranes which remove much smaller contaminants such as ions and microbes, but allows clean water through. This treated and high-quality drinking water fills a clear well, where a small amount of chlorine is added as extra protection for continuous disinfection and the drinking water is then pumped as needed to the water tower for distribution to your home or businesses.

Possible Source Water Contaminants

The sources of all drinking water, both tap and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and 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 and or from human activity. Contaminants that may be present in source water include:

- Microbial Contaminants: viruses & bacteria; may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic Contaminants: salts & metals; can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and Herbicides: may come from a variety of sources such as agriculture, urban storm water runoff and residential uses.
- Organic Chemical Contaminates: including Synthetic and Volatile Organic Chemicals, which are by-products of industrial processes and petroleum production can also come from gas stations, urban storm runoff and septic systems.
- Radioactive Contaminates: can be naturally occurring or be the result of oil and gas production and mining activities.

To protect public health, water treatment plants remove these contaminants to safe levels established by EPA regulations. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in the water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for human health.

Coliforms in Drinking Water

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. EPA requires Hannahville Water Operations to sample and analyze for Total Coliforms five times a month, a least one each week from various sites throughout the distribution system. We are happy to report that all weekly samples in 2022 were absent of Total Coliforms.

Water Quality Data Table

We are pleased to report Hannahville Water Operations surpassed all drinking water regulations set by the EPA. These regulations are Primary Standards that protect public health by setting legal limits on levels of potentially harmful contaminants in drinking water. EPA requires us to monitor for certain contaminants less than once a year because the concentrations of these contaminants do not frequently change. Substances that we tested for but did not find are not included in the table.

WATER QUALITY DATA TABLE					
Regulated Contaminants Found in Your Water					
CONTAMINANT	UNIT	DATE TESTED	LEVEL COMPARISON	VIOLATION	Common Sources of Containment in Drinking Water
CHLORINE (free)	ppm	2022 RAA	MRDL: 4.00 MRDLG: 4.00 YOUR WATER: 0.29	No	Water additive used to control microbes.
LEAD	ppb	AUGUST 2021	AL: 15 MCLG: 0 YOUR WATER: 2	No	Corrosion of household plumbing systems; erosion of natural deposits.
COPPER	ppm	AUGUST 2021	AL: 1.30 MCLG: 1.30 YOUR WATER: 0.14	No	Corrosion of household plumbing systems; erosions of natural deposits.

Definitions for the Water Quality Data Table:

- MRDL: Maximum Residual Disinfectant Level. The highest level of a drinking water disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- MRDLG: Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- MCL: Maximum Contaminant Level. The highest level of a contaminant that is allowed in the water we drink. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
- MCLG: Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
- ppm: parts per million. 1 drop in 1 million gallons.
- ppb: parts per billion. 1 drop in 1 billion gallons.
- AL: Action Level. The concentration of a contaminant, which if exceeded, triggers treatment or other requirements, which a water system must follow.
- RAA: Running Annual Average. The average of four quarterly samples collected in one year.

Individual Special Precautions

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 system disorders, some elderly, and infants can be particularly at risk from infections. The developing fetus and therefore pregnant women may also be more vulnerable to contaminants in drinking water. These people or their caregivers should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on

appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800.426.4791.

Lead in Drinking Water

EPA requires Hannahville Water Operations to collect water samples from inside homes within its distribution system considered at risk for lead and copper contamination. In August 2021, ten samples were sent to Michigan's EGLE Drinking Water Laboratory for analysis. The 90th percentile Lead result is 2 ppb out of an Action Level of 15 ppb. No samples exceeded the Action Level, meaning there is no corrective action needed for Lead in our drinking water system.

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. Hannahville Water Operations is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Hannahville Water Operations at 906.723.2200. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

PFAS

On August 21, 2018, a sample from the Hannahville Indian Community's Public Water System was collected and analyzed as part of Michigan's statewide per- and polyfluoroalkyl substances (PFAS) testing initiative. PFAS was not detected in the Hannahville Water System. For information on PFOS, PFOA, and other PFAS, including possible health outcomes, you may visit these websites:

- US EPA website including basic information, EPA actions, and links to informational resources: www.epa.gov/pfas
- State of Michigan PFAS Action Response Team (MPART) website serving as the main resource for public information on PFAS contamination in Michigan: www.michigan.gov/pfasresponse
- Agency for Toxic Substances and Disease Registry (ATSDR) website including health information, exposure, and links to additional resources: www.atsdr.cdc.gov/pfas

Maintenance & Security of the Water System

We encourage your help to maintain and secure your drinking water supply. Please immediately notify us if you notice something you think needs prompt attention from our department. This includes hydrants, pipes, and leaks. Call our direct line: 906.723.2200. Our voicemail greeting is updated weekly and states how to contact the on-call operator.

Hannahville Water & Wastewater: 906.723.2200