



## OH8701712 Village of Pemberville 2023

### DRINKING WATER CONSUMER CONFIDENCE REPORT

The Village of Pemberville Water Department has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included with this report is general health information, water quality test results, and how to participate in decisions concerning your drinking water.

*Este informe contiene informacion muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuniquese con alguien que pueda traducir la informacion.*

In 2023, the Village Water Department continued to make improvements and upgrades to the water system. We completed a replacement of waterline along E Front St. and we began construction in the park area for our new water tower.

#### Where does my water come from?

The source of the Village of Pemberville's water is Ground Water. We get the water from eight (8) wells in three (3) well fields. The water is treated in ION exchange units in the two (2) water treatment plants. Both water plants are operated and maintained by one employee with an Ohio EPA Class 1 Water Supply Operator License. To ensure the quality and consistency of the water, the water plants are checked 365 days a year. In 2023 36,605,400 gallons of water was produced for our customers, for a daily average of 100,288 gallons.

A Vulnerability Assessment report was prepared for your water system by the Ohio EPA. The assessment indicates that the Village of Pemberville's source of drinking water has a high susceptibility to contamination because:

- The wells are located in a sensitive karst area;
- The shallow depth (less than 25 feet below ground surface) of the aquifer;
- The shallow well casing depth (25 feet);
- Potential contamination sources exist within the protection area.

This does not mean that the aquifer will become contaminated, only that under the existing conditions ground water could become impacted by contaminant sources. A copy of the DRINKING WATER SOURCE ASSESSMENT for the Village of Pemberville is at the Village Hall. The DRINKING WATER SOURCE PROTECTION PLAN and the WATER SUPPLY CONTINGENCY PLAN were both reviewed in 2023. *Please contact Village Hall at 419-287-3832 if you would like additional information on this topic.*

#### What are sources of contamination to drinking water?

The sources of drinking water both tap water and bottled water includes 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 or from human activity.

Contaminants that may be present in source water include: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife;(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas product ion, mining, or farming; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses; (D) 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 storm water runoff, and septic systems; (E) radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. 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 Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

#### Who needs to take 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 infection. These people should seek advice about drinking water from their health care providers. EPA/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 (1-800-426-4791).

In 2020, our PWS was sampled as part of the State of Ohio's Drinking Water Per- and Polyfluoroalkyl Substances (PFAS) Sampling Initiative. Six PFAS compounds were sampled, and none were detected in our finished drinking water. For more information about PFAS, please visit [pfas.ohio.gov](http://pfas.ohio.gov).

The EPA requires regular sampling to ensure drinking water safety. The Village of Pemberville conducted sampling for Lead and Copper, Total Coliform, Total Chlorine, Inorganics, Nitrite, Nitrate, and Disinfection By-Products during 2023. Samples were collected for a total of 54 different contaminants most of which were **not detected** in the Village of Pemberville's water supply. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, are more than one year old.

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 Pemberville 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 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

***In 2023 we had a current, unconditioned license to operate our water system.***

#### How do I participate in decision concerning my drinking water?

Public participation and comments are encouraged at regular meetings of the Board of Public Affairs, which meet the Monday prior to the first and third Tuesday of each month. The meetings are held at 7:00 PM. For more information on your drinking water contact Nathan Schultze at [water@villageofpemberville.org](mailto:water@villageofpemberville.org)

**How to read the Water Quality Data Table:**

EPA establishes the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to regulatory limits. Substances that were tested for, but not detected, are not included in this table.

Listed below is information on those contaminants that were found in the Village of Pemberville drinking water.

OH8701712 PEMBERVILLE VILLAGE WATER								
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	1.1	0.9-1.1	MRDLG=4	MRDL=4	ppm	No	Water additive used to control microbes.
Halocetic Acids (HAA5)	2023	7	6.5-6.8	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	38	32.2-42.8	No goal for the total	80	ppb	No	By- product of drinking water disinfection
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	6/16/2022	0.0196	0.0109-0.0196	2	2	ppm	No	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits.
Flouride	6/16/2022	1.12	0.573-1.12	4	4.0	ppm	No	Erosion of natural deposits; water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2023	0.234	0.147-0.234	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Gross alpha excluding radon and uranium	8/11/2022	3.49	3.49-3.49	0	15	pCi/L	No	Erosion of natural deposits
Volatile Organic Compounds	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Dichloromethane	6/16/2022	0.3	0-0.3	0	5	ppb	No	Discharge from pharmaceutical and chemical factories.
Ethylbenzene	6/16/2022	0.07	0-0.07	700	700	ppb	No	Discharge from petroleum refineries.
Toluene	6/16/2022	0.0001	0-0.0001	1	1	ppm	No	Discharge from petroleum factories.
Lead and Copper	Date sampled	MCLG	Action Level (AL)	90 <sup>th</sup> percentile	# sites over AL	Units	Violation	Likely Source of Contamination
Copper	2023	1.3	1.3	0.366	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2023	0	15	0.6	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits.

**Water Quality Test Results**

**Definitions:** The following tables contain scientific terms and measures, some of which may require explanation.

**Avg:** Regulatory compliance with some MCLs are based on running annual average of monthly samples.

**Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Water Quality Test Results**

**Maximum residual disinfectant level or 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 or 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.

**mrem:** millirems per year (a measure of radiation absorbed by the body)

**na:** not applicable.

**ppb:** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

**ppm:** milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

**Treatment Technique or TT:** A required process intended to reduce the level of a contaminant in drinking water..

**Lead and Copper**

**Action Level Goal (ALG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

**Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.