



Town of Ridgely

2022 Annual Drinking Water Quality Report

MD0050006

Is my water safe?

The Town of Ridgely is pleased to provide this annual water quality report for calendar year 2021. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. The Town of Ridgely routinely monitors for contaminants in your drinking water, and we are committed to ensuring the quality of your water. Last year, our system was in violation of the Consumer Confidence Rule; we failed to supply the annual water quality report to our customers in a timely manner. We have since been returned to compliance status.

Do I need 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 infections. These people 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 Water Drinking Hotline (800-426-4791).

Where does my water come from and what are the potential sources of contamination?

Your drinking water is supplied by two wells located in the Piney Point aquifer, a naturally protected, confined aquifer. The susceptibility analysis for The Town of Ridgely's water supply is based on a review of the water quality data, potential sources of contamination, aquifer characteristics, and well integrity. For information on the source of your water, the significant potential sources of contamination, and susceptibility analysis, contact the Maryland Source Water Assessment Program at the Maryland Department of the Environment at (410) 537-3714 or visit on the web at: www.mde.maryland.gov

Why may there be contaminants in my drinking 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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). The sources of drinking water (both tap water 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 or from human activity. Contaminants that may be present in source water include:

1. Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. 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 production, mining, or farming.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
4. 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.
5. 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, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Important Drinking Water Definitions:

MCLG: Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risks for safety. MCLG allows for margin of safety.

MCL: Maximum Contaminant Level. 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.

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

ALG: Action Level Goal. 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.

MRDL: Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbe contaminants.

Units of Measurement & Conversions:

NA: Not applicable

pCi/L: picocuries per liter (a measure of radioactivity)

ppm: parts per million, or milligrams per liter (mg/L)

ppb: parts per billion, or micrograms per liter (µg/L)

Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected in your water. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, may be up to five years old.

| Contaminant | Date Sampled | MCLG | Action Level (AL) | 90 th Percentile | # sites over AL | Units | Violation | Typical Source |
|-------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|--|
| Lead | 09/25/2019 | 0 | 15 | 1.4 | 0 | ppb | No | Corrosion of household plumbing systems; erosion of natural deposits |

| Contaminant (units) | Collection Date | MCLG | MCL | Highest Level Detected | Range | | Violation | Typical Source |
|---------------------|-----------------|------|-----|------------------------|-------|------|-----------|----------------|
| | | | | | Low | High | | |

Disinfectants and Disinfection By-Products:

| | | | | | | | | |
|-----------------------------|------|-----------------------|--------|-----|------|------|----|---|
| Total Trihalomethanes (ppb) | 2021 | No goal for the total | 80 | 1 | 0.57 | 0.57 | No | Byproduct of chlorination |
| Haloacetic Acids HAA5 (ppb) | 2021 | No goal for the total | 60 | 1 | 1 | 1 | No | Byproduct of chlorination |
| Chlorine (ppm) | 2021 | MRDLG=4 | MRDL=4 | 0.3 | 0.2 | 0.3 | No | Water additive used to control microbes |

Inorganic Contaminants:

| | | | | | | | | |
|----------------|------|-----|-----|------|------|------|----|---|
| Chromium (ppb) | 2021 | 100 | 100 | 13.2 | 13.2 | 13.2 | No | Discharge from steel and pulp mills; erosion of natural deposits |
| Fluoride (ppm) | 2021 | 4 | 4 | 1.7 | 1.7 | 1.7 | No | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |

Radioactive Contaminants:

| | | | | | | | | |
|---|------|---|----|-----|-----|-----|----|---|
| Beta/photon emitters (pCi/L) | 2021 | 0 | 50 | 6.1 | 6.1 | 6.1 | No | Decay of natural and man-made deposits. |
| Combined Radium 226/228 (pCi/L) | 2021 | 0 | 5 | 0.3 | 0.3 | 0.3 | No | Erosion of natural deposits |
| Gross alpha excluding radon & uranium (pCi/L) | 2021 | 0 | 15 | 2.2 | 2.2 | 2.2 | No | Erosion of natural deposits |

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|--------------------------------------|-----------------|---------------|--|
| CCR Adequacy/Availability/Content | 10/01/2020 | 06/01/2021 | We failed to provide you, our drinking water customers, an annual report that adequately informed you about the quality of or drinking water and the risks from exposure to contaminants detected in our drinking water. |

Lead

If present, elevated levels of lead can cause serious health problems, especially in pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Town of Ridgely 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 drinking 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 EPA Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

PFAS

PFAS – short for per- and polyfluoroalkyl substances – refers to a large group of more than 4,000 human-made chemicals that have been used since the 1940s in a range of products, including stain- and water-resistant fabrics and carpeting, cleaning products, paints, cookware, food packaging and fire-fighting foams. These uses of PFAS have led to PFAS entering our environment, where they have been measured by several states in soil, surface water, groundwater and seafood. Some PFAS can last a long time in the environment and in the human body and can accumulate in the food chain.

Currently, there are no federal regulations (i.e. Maximum Contaminant Levels (MCLs)) for PFAS in drinking water. However, the U.S. Environmental Protection Agency (EPA) has issued a Health Advisory Level (HAL) of 70 parts per trillion (ppt) for the sum of PFOA and PFOS concentrations in drinking water. While not an enforceable regulatory standard, when followed, the EPA HAL does provide drinking water customers, even the most sensitive populations, with a margin of protection from lifetime exposure to PFOA and PFOS in drinking water. Beginning in 2020, the Maryland Department of the Environment (MDE) initiated a PFAS monitoring program. The combined PFOA and PFAS concentration from samples taken from our water system was **below the detection limit**. MDE anticipates that EPA will establish an MCL for PFOA and PFOS in the near future. This would entail additional monitoring. Additional information about PFAS can be found on the MDE website: mde.maryland.gov

Town of Ridgely

For additional information or questions contact:

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