

Pleasant Valley 2024 Drinking Water Quality Report



Important Information Concerning Your Drinking Water

The Bureau of Utilities is pleased to present to you the Annual Water Quality Report for 2024. This report is designed to inform you about the water quality and services we deliver to you every day. Maryland Environmental Service (MES), an Agency of the State of Maryland, provides operational support and prepared this report on behalf of Carroll County and the Pleasant Valley water treatment plant.

The Environmental Protection Agency (EPA) regulates Public Water Systems and the contaminants found in water through the implementation of the Safe Drinking Water Act (SDWA). The SDWA sets regulations and guidelines for how public water systems operate and identifies several hundred drinking water contaminants, establishes monitoring frequencies and limitations. The Maryland Department of the Environment (MDE) is responsible for the enforcement of the SDWA and routinely complete Sanitary Surveys as part of their ongoing inspection and monitoring program. Carroll County provides safe dependable operations of the water system and is dedicated to consistently providing high quality drinking water that meets or exceeds the SDWA standards.

If you have any questions about this report or have questions concerning your water utility, please contact Andrew Watcher, Chief Carroll County Bureau of Utilities 225 North Center Street, Room 218, Westminster, MD 21157, Phone 410-386-2164.

Public Meeting Information:

For the opportunity to ask more questions or participate in decisions that may affect your drinking water quality, the Carroll County Commissioners meet regularly and the weekly agenda is available at: <https://www.carrollcountymd.gov/government/commissioners/board-of-carroll-county-commissioners-weekly-agenda/>

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How Water is Treated:

The source of Pleasant Valley’s community water supply is a groundwater well in production since 2001, located 750 feet northeast of Halter Road. A second well located behind the PV Fire Department was added in 2015. These wells pump up to 15 gallons per minute to the treatment building located on High Street. Sodium Hypochlorite is then added for disinfection and Sodium Hydroxide for pH balance and corrosion control as well as a nitrate removal system and a softening system. After chemical injection, it is pumped to the elevated 50,000-gallon water storage tank.

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Definitions:

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.

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

Mrem - millirem roentgen equivalent in man. A measure of radiation dose.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Turbidity - Relates to a condition where suspended particles are present in the water. Turbidity measurements are a way to describe the level of “cloudiness” of the water.

pCi/l - Picocuries per liter. A measure of radiation.

ppb - parts per billion or micrograms per liter

ppm - parts per million or milligrams per liter

ppt - parts per trillion or nanograms per liter

Special Points of Interest

The water from the Pleasant Valley’s Water Treatment Plant is tested for over 120 different compounds. Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of some compounds. The presence of these compounds 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’s) Safe Drinking Water Act Hotline (1-800-426-4791)**.

Contaminants That May Be Present in Source Water

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. 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. 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. Radioactive Contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

The Maryland Department of the Environment has performed an assessment of the source water. A copy of the assessment is available by calling or writing the Bureau of Utilities, Carroll County Government, 225 North Center Street, Room 218, Westminster, MD 21157, 410-386-2164.

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Contaminant	Unit	Meets Primary Standard Yes/ No	State Primary Standard MCL	State Secondary standard SMCL	Highest Level Detected	Range
Regulated at the Treatment Plant						
Nitrate	ppm	Yes	10	10	0.67	0 – 0.67
Typical Source of Contamination: Runoff from fertilizer use and erosion of natural deposits						
Regulated in the Distribution System						
Chlorine	ppm	Yes	4	4	0.64*	0.60 – 0.64
Source: Water additive used to control microbes				*Annual Rolling Average		
Total Trihalomethanes (TTHM) (2024 Sampling)	ppb	Yes	80	N/A	27.5	27.5 – 27.5
Haloacetic Acids (HAA5) (2024 Sampling)	ppb	Yes	60	N/A	3.8	3.8 – 3.8
Typical Source of Contamination: By-product of drinking water disinfection						
Regulated in the Distribution System						
Lead (2024 Testing)	ppb	Yes	15	0	<2.0*	<2.0 – 2.0**
No sites exceeded the lead action level during this monitoring period.					*90 th percentile	
Copper (2024 Testing)	ppb	Yes	1300	1300	40*	7.9 - 46
No sites exceeded the copper action level during this monitoring period.					*90 th percentile	
**A “<” symbol signifies a ND or non-detect, meaning the result was below the detection limit for testing						

The table above lists all the drinking water contaminants that were detected during the 2024 calendar year. The presence of these compounds in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 – December 31, 2024.

The State requires 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.

Lead Prevention:

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 Pleasant Valley Water Treatment Plant 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 Jay Janney at jjanney@menv.com for a list of eligible labs. 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>.

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Service Line Inventory

An initial Service Line Inventory was completed by the Pleasant Valley Water Treatment Plant and submitted to the Maryland Department of the Environment on 10/03/2024. As a result, the Service Line Inventory requirement was fulfilled. A copy of the Service Line Inventory Statement is available upon request by contacting utilitiesadmin@carrollcountymd.gov.

Sources of Drinking Water

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.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain compounds in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Water Conservation

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- ◆ Check for water leaks by the reading your water meter before and after a two-hour period when no water is being used in your home. If the reading changes, then there is probably a leak in your home.
- ◆ Take a shower! Filling up a bathtub can use up to 70 gallons of water while a shower generally uses 10 to 25 gallons. Taking shorter showers saves even more water.
- ◆ Make sure your washing machine and dishwasher are fully loaded before running.
- ◆ Are you in the market for a new water fixture such as a faucet, showerhead or toilet? Consider a WaterSense labeled fixture and reduce your water use by 30% percent or more versus standard flow fixtures. Visit www.epa.gov/watersense for more information on water efficiency products and methods.

Source: <http://www.epa.gov/watersense> & <http://eartheasy.com>

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Polyfluoroalkyl Substances

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.

The Maryland Department of the Environment (MDE) conducted a PFAS monitoring program for Community Water Systems from 2020 to 2022. PFAS sampling was not conducted for the Pleasant Valley Water Treatment System during 2024. Past results are available below and on MDE's website:

<https://mde.maryland.gov/PublicHealth/Pages/PFAS-Landing-Page.aspx>.

The Environmental Protection Agency (EPA) finalized regulations for 6 PFAS compounds in drinking water in April 2024. The MCLs for PFOA and PFOS are each 4.0 parts per trillion (ppt). The MCLs for PFNA, PFHxS, and HFPO-DA (GenX chemicals) are each 10 ppt. Additionally, a mixture of two or more of the following chemicals (PFNA, PFHxS, HFPO-DA, and PFBS) will be regulated with a Hazard Index of 1 (unitless) to determine if the combined levels of these PFAS pose a risk and require action.

The 5th Unregulated Contaminant Monitoring Rule (UCMR5) began testing for 29 PFAS compounds and lithium in 2023. The UCMR5 should test all community water systems with populations of at least 3300 people. Three randomly selected systems in Maryland with populations less than 3300 people will also be tested under the UCMR5. Detections greater than the minimum reporting levels for each constituent should be reported in the CCR.

2021 PFAS Results

Parameter	PFOS (ppt)	PFOA (ppt)	PFHxS (ppt)	GenX Chemicals (ppt)	PFNA (ppt)	PFBS (ppt)	Hazard Index (ppt)
Result	<1.0	<1.0	<1.0	<1.0	<1.5	<1.0	0
Limit	4	4	10*	10*	10*	2000*	1.0
Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes
*These parameters contribute to the calculation for the Hazard Index							