



Water Quality Report 2025

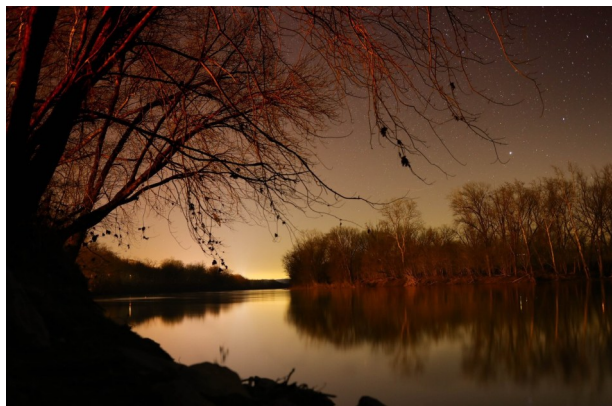
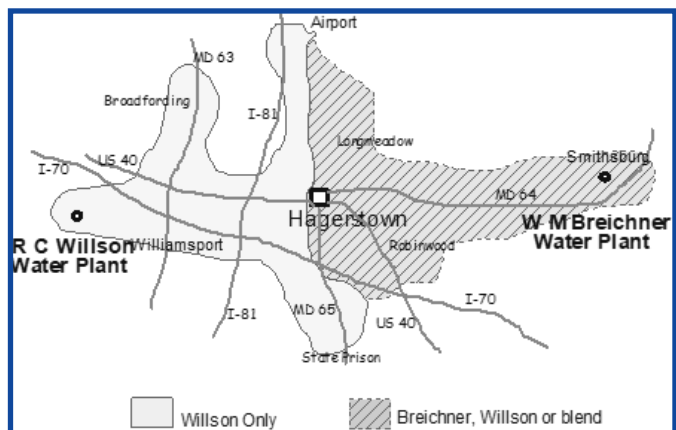
The City of Hagerstown is pleased to present you with the Annual Drinking Water Quality Report for the year, for the period of January 1 to December 31, 2025. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. (*Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.*)

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.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of certain 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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

Hagerstown City water is surface water that comes from one of two City-owned treatment plants. The main facility is the R.C. Willson Water Treatment Plant which uses the Potomac River as the water source. The second facility is the W.M. Breichner Water Treatment Plant which uses the Edgemont Reservoir as its source. The Edgemont Reservoir and W.M. Breichner Plant are off-line while repairs and upgrades are made to the dam and treatment facility. Therefore, all water is currently being sourced from the R.C. Willson Water Treatment Plant.



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Additional Information & Resources

For more information on your water supply or the information contained in this report you may want to contact the following agencies:

City of Hagerstown Water Division

☎ (301) 739-8577 x680

City of Hagerstown Drinking Water Laboratory

☎ (301) 739-8577 x667

Maryland Department of the Environment

☎ 410) 537-3000 or (800) 633-6101

U.S. Environment Protection Agency Safe Drinking Water Act Hotline

☎ (800) 426-4791

You are always welcome to attend any of the meetings of the Mayor and Council Meetings held at Council Chambers in City Hall on the 1st, 2nd, and 3rd Tuesdays of every month at 4:00 pm and on the 4th Tuesday at 7:00 pm. Please check the City website for exact times.

Compliance with Safe Drinking Water Act

In order to ensure that tap water is safe to drink, EPA 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.

Hagerstown City Water meets all Federal (EPA) and State (MDE) regulatory requirements. The Hagerstown Utilities Department Water Division works hard to maintain the highest quality water possible and we will continue to strive for this goal. If you have questions about this report or any other topic related to your drinking water, please feel free to call us using the numbers on page 1.

Water Treatment Process

Our water supply source water from the Potomac River is disinfected by filtration followed by addition of chloramine prior to distribution to our customers. A corrosion inhibitor is added to minimize the dissolution of any lead or copper particles from private household plumbing. Fluoride is added to help prevent dental problems with children's teeth. Total chlorine residual is monitored daily throughout the distribution system to ensure drinking water quality.



The Safe Drinking Water Act (SDWA) was passed in 1974 as a law to protect human public health by regulating the public drinking water supply. SDWA establishes national health-based standards for drinking water to protect against both naturally-occurring and man-made contaminants.

Testing Requirements

Testing is periodically conducted for regulated and unregulated contaminants. The table found in this report summarizes the results of our monitoring for the period of January 1, 2025 to December 31, 2025. The regulatory agencies (MDE and the EPA) have waived the requirement to sample for some contaminants that would not normally be found in our environment.

Source Water Contaminant Information

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;
- pesticides and herbicides, which may come from a variety of sources such as agricultural, urban storm water runoff, and residential uses;
- 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;
- 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;
- radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

Vulnerable Populations

Some people may be more vulnerable to contaminants in drinking water than the general population. Contaminants may be found in drinking water that may cause taste, odor, or color problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the City of Hagerstown Water Division at (301) 739-8577 x680.

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/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 (800-426-4791).

Source Water Assessment

A source water assessment was performed for Hagerstown, and it may be found on the MDE website through the following link: https://mde.maryland.gov/programs/Water/water_supply/Source_Water_Assessment_Program/Pages/by_county.aspx.

Information Statement from the EPA on Lead

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 City of Hagerstown 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, contact The City of Hagerstown Water Division at (301) 739-8577 x680. 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>

An initial Service Line Inventory was submitted to the Maryland Department of the Environment on 10/15/2024. As a result, the Service Line Inventory requirement was fulfilled. The report is available at: <https://www.hagerstownmd.org/1738/Water-Service-Line-Inventory-Program>

What is 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 firefighting 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. The results are available 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, and testing will run through 2025. 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. Hagerstown completed testing for PFAS and lithium during the 2024 UCMR5 testing cycle. Results of this testing are enclosed in this report.

Terms, Units & Abbreviations

The tables on the following page contain scientific terms and measures:

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

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.

Locational Running Annual Average (LRAA): the arithmetic average of sample analytical results taken at a specific, fixed monitoring location in a water distribution system during the previous four calendar quarters.

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.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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.

MCLG: Maximum Contaminant Level Goal– 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.

MRDL: Maximum Disinfectant Residual 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 microbial contaminants.

MDRLG: Maximum Disinfectant Residual Level Goal– 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).

N/A: Not applicable

NTU: Nephelometric Turbidity Units– A measure of water clarity.

ppm: Milligrams per liter (mg/L) or parts per million; equal to one ounce in 7,350 gallons of water.

ppb: Micrograms per liter (µg/L) or parts per billion; equal to one ounce in 7,350,000 gallons of water.

ppt: Nanograms per liter (ng/L) or parts per trillion; equal to one ounce in 7,350,000, 000 gallons of water.

Water Quality Data Table

Disinfectant (Running Annual Average (RAA))								
Disinfectant	Date	Highest RAA	Unit	Range	MRDL	MRDLG	Typical Source	
Chlorine	2025	2.9	ppm	-	4	4	Water additive used to control microbes	
DISINFECTION BY-PRODUCTS								
Disinfection By-products	Collection Period	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source	
Total Haloacetic Acids (HAA5)	2025	20	8.1 - 27.6	ppb	60	0	By-product of drinking water disinfection.	
TTHM	2025	30	6.8 - 48.4	ppb	80	0	By-product of drinking water chlorination.	
LEAD AND COPPER: tested at customer’s taps. Testing is conducted every 3 years.								
Regulated Contaminate	Period Sampled	90th Percentile: 90% of your water utility levels were less than	Range of Sampled Results (low to high)	Unit	AL	MCLG	Sites Over AL	Typical Source
Copper (Free)	2022 - 2025	0.042	<0.005 - 0.046	ppm	1.3	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead	2022 - 2025	0.8	<0.005 - 1	ppb	15	0	0	Corrosion of household plumbing systems; Erosion of natural deposits
TURBIDITY: The measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration								
Percentage of samples in compliance with Std.		Months Occurred	Violation	Highest Single Measurement	Month Occurred	Source (s)		Level Indicator
100%		10	No	0.044	May	R C Willson Filter Plant		Yes
TOTAL ORGANIC CARBON: The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.								
TOC	Collection Date	High Value	Range	Unit	TT	Typical Source		
Carbon, Total	5/14/2025	3	1.5 - 3	ppm	0	Naturally present in the environment		

Water Quality Data Table Continued

Regulated Contaminates: Microbial					
Microbiological	Collection Date	Result	MCL	MCLG	Typical Source
<i>E. coli</i>	2025 (90/Month)	In the month of October, 1 sample(s) returned as positive	MCL: A Routine sample and a repeat sample are total coliform positive and on is also Fecal positive/ <i>E. coli</i> positive.	0	Human and animal fecal waste.
Total Coliform (TCR)	2025 (90/ Month)	In the month of October, 2.44% of sample(s) returned as positive.	Treatment Technique Trigger	0	Naturally present in the environment.

Additional Required Information:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator organism that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems. Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly and people with severely compromised immune systems.

During this reporting year coliforms were found indicating the need to look for potential problems in the water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments. *E. coli* bacteria were also found, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments. We were required to complete a Level 2 assessment because we found *E. coli* in our water system. In addition we were required to take 0 corrective actions by MDE. Upstream and downstream locations from the positive sample site were collected and tested negative for total coliforms and *E. coli*. In addition to the aforementioned testing, another sample collection site was located within the positive sampling site and was tested as well. The results of this testing also came back negative for total coliforms and *E. coli*. The conclusion of the level two assessment was that the sampling site sink/ aerator was contaminated a new sampling location for this site was identified and is now being used.

INORGANIC CONTAMINANTS							
Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Barium	10/28/2025	0.043	0.043	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Dibromochloromethane	4/20/2025	0.00207	0.00207	ppm	0.1	0.06	Forms from reactions between chlorine and bromide-containing natural organic matter.
Fluoride	3/3/2025	0.743	0 - 0.743	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate	3/3/2025	0.92	0.92	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate - Nitrite	4/20/2025	0.5	0.5	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Water Quality Data Table Continued

UCMR Unregulated Contaminant Monitoring Rule (UCMR)					
Contaminate	Date Sampled	Level Detected	MCL (proposed)	Violation	Typical Source
PFOA	2024	Below detectable limits	4 ppm	No	Human-made chemicals found in stain-and water-resistant fabrics, carpeting, cleaning products, paints, cookware, food packaging, and fire-fighting foams
PFOS	2024	Below detectable limits	4 ppm	No	Human-made chemicals found in stain-and water-resistant fabrics, carpeting, cleaning products, paints, cookware, food packaging, and fire-fighting foams
Lithium	2024	<0.009 ppm	Not Established	No	Naturally occurring element found in ground water