WHAT'S ON TAP?

Bristol Water Department – 2022 Water Quality Report



2022 Update

This report is a snapshot of the quality of the water that we provided in 2022. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. This report is designed to inform you about the quality water and services we deliver to you every day.

Water Source Information

The Bristol Water System is classified and permitted as a groundwater system, operating under water system ID#5002. Water is supplied by New Haven Spring, an approved groundwater source.

Water Supply Rule

The State of Vermont Water Supply Rule requires Public Community Water Systems to develop a Source Protection Plan. This plan is on file at the Town Office and delineates a source protection area for our system and identifies potential and actual sources of contamination. Please contact us if you are interested in reviewing the plan.

Bristol Water Dept. Valerie Capels Town Administrator Bristol Town P.O. Box 249 Bristol, VT 05443

802-453-2410

To learn more, please visit <u>www.bristolvt.org</u> or attend any of the Selectboard/Water Commission's meetings held on the 2nd and 4th Monday of each month. Call (802) 453-2410 or visit <u>www.bristolvt.org</u> to confirm the time and location.

VTUMS Vermont Utility Management Services

VTUMS is responsible for the operations of this system. VTUMS staff includes these certified operators:

Cyrus Marsano &

Jill Marsano

802-377-2316

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BRISTOL WATER DEPARTMENT – WATER QUALITY REPORT

Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include surface water (streams, lakes) and ground water (wells, springs). As water travels over the land's surface or through the ground, it dissolves naturallyoccurring minerals. It also picks up substances resulting from the presence of animals and human activity. Some "contaminants" may be harmful. Others, such as iron and sulfur, are not harmful. Public water systems treat water to remove contaminants, if any are present.

In order to ensure that your water is safe to drink, we test it regularly according to regulations established by the U.S. Environmental Protection Agency and the State of Vermont. These regulations limit the amount of various contaminants:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

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.



Pesticides and herbicides, may come from a variety of sources such as storm water run-off, agriculture, and residential users.

<u>*R* adioactive contaminants</u>, which can be naturally occurring or the result of mining activity.

Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic system

Health Information Regarding Drinking Water

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/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from EPA's Safe Drinking Water Hotline (1-800-426-4791).

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Safe Drinking Water Hotline.

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. BRISTOL WATER DEPT 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 Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

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In this table you may find terms you might not be familiar with.

To help you better understand thesis terms, we have provided you the following definitions:

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

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.

Locational Running Annual Average (LRAA): The average of sample analytical results for samples taken at a particular monitoring location during four consecutive calendar quarters.

Maximum Contamination Level (MCL): The "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum Contamination Level Goal (MCLG): The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG's allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. Addition a disinfectant may help control microbial contaminants.

Maximum Residual Disinfectant Level Goal (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 disinfectants in controlling microbial contaminants.

Nephelometric Turbidity Unit (NTU): NTU is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per billion (ppb) or Micrograms per liter ($\mu q/l$): (one penny in ten million dollars)

Parts per million (ppm) or Milligrams per liter (mg/l): (one penny in ten thousand dollars)

Parts per trillion (ppt) or Nanograms per liter (ng/l): (one penny in ten billion dollars)

Picocuries per liter (pCi/L): a measure of radioactivity in water

Running Annual Average (RAA): The average of 4 consecutive guarters (when on guarterly monitoring); values in table represent the highest RAA for the year.

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

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Terms & Abbreviations Continued

90th Percentile: Ninety percent of the samples are below the action level. (Nine of ten sites sampled were at or below this level.

Per- and polyfluoroalkyl substances (PFAS): a group of over 4,000 human-made chemicals (they do not occur naturally) that have been used in industry and consumer products worldwide and includes:

(PFNA): Perfluorononanoic Acid (PFOA): Perfluorooctanoic Acid (PFOS): Perfluorooctane Sulfonic Acid (PFHpA): Perfluoroheptanoic Acid (PFHxS): Perfluorohexane Sulfonic Acid (11Cl-PF3OUdS): 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid (9CI-PF3ONS): 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid (DONA): 4,8-Dioxa-3H-perfluorononanoic Acid (HFPO-DA): Hexafluoropropylene Oxide Dimer Acid (NEtFOSAA): N-ethyl perfluorooctanesulfonamidoacetic Acid (NMeFOSAA): N-methyl perfluorooctanesulfonamidoacetic Acid (PFBS): Perfluorobutane Sulfonic Acid (PFDA): Perfluorodecanoic Acid (PFDoA): Perfluorododecanoic Acid (PFHxA): Perfluorohexanoic Acid (PFTA): Perfluorotetradecanoic Acid (PFTrDA): Perfluorotridecanoic Acid (PFUnA): Perfluoroundecanoic Acid

Detected Contaminants

Disinfection Residual	RAA	Range	Unit	MRDL	MRDLG	Typical Source
Chlorine	0.346	0.120-0.480	mg/l	4	4	Water additive to control microbes

Chemical Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Nitrate	4/4/2022	0.43	0.43 - 0.43	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection Byproducts	Collection Year	Highest LRAA	Range	Unit	MCL	MCLG	Typical Source
Total Trihalomethanes	2022	7	7-7	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Date	90th Percentile	Range	Unit	AL*	Sites Over AL	Typical Source
Lead	2020 (1)	1.4	0 - 1.9	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	2020 (1)	0.11	0-0.24	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

* The lead and copper AL (Action Level) exceedance is based on the 90th percentile concentration, not the highest detected result.

(1) Lead and Copper are not tested annually.

Distribution Information: Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place and distributing copies by hand or mail.