

2023

Consumer Confidence Report

2022 DATA

Waterville Valley Water District

PWS ID# 2441010

Introduction

As a responsible public water system (PWS), our mission is to deliver the best quality drinking water and reliable service at the lowest, appropriate cost. Aging infrastructure presents challenges for maintaining safe quality drinking water and continuous improvements are necessary. In the past year, we have completed an asset management study to further understand the system's needs. In the coming year we intend to bring Well 3 back into service and connect Well 2 and Well 3 to the Drinking Water treatment facility. The Well 2 pump house will continue to house the well and pump but will no longer include chemical feed.

These investments along with on-going operation and maintenance costs are supported by capital funds and user fees. When considering the high value placed on quality drinking water, it is truly a bargain to have water service that protects public health, fights fires, supports businesses and the economy and ensures high-quality drinking water is always available at your tap.

What is a Consumer Confidence Report? The Consumer Confidence Report (CCR) details the quality of your drinking water, where it comes from, and how to get more information. This annual report documents all detected primary and secondary drinking water contaminants and their respective standards known as Maximum Contaminant Levels (MCLs).

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:

- **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**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- **Organic chemical contaminants**, including per- and polyfluoroalkyl substances, 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.

NOW IT COMES WITH A LIST OF INGREDIENTS.



- **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 prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The US Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

What is the source of my drinking water?

The town of Waterville Valley currently obtains its drinking water from two gravel packed wells.

Well #4 is located approximately 1.5 miles north of town in the White Mountain National Forest and yields 300 GPM.

Well #2 is located on the west side of the Mad River, across from the water treatment building and yields 270gpm.

The water is disinfected with a minimal dose of calcium hypochlorite. We also add potassium hydroxide for pipe corrosion control and pH adjustment.

Why are contaminants in my 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 Safe Drinking Water Hotline at 1-800-426-4791.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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 healthcare 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 at 1-800-426-4791.

Source Water Assessment Summary

NHDES prepared drinking water source assessment reports for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of available protection options. The results of the assessment, prepared on 6/22/2000 are noted below. There have been no subsequent updates by NHDES since this date.

Well #2, 1 susceptibility factor was rated high, 5 were rated medium, and 6 were rated low.

Well #3, 1 susceptibility factor was rated high, 4 were rated medium and 7 were rated low.

Well#3 has since been taken offline with plans to bring back into service in 2023.

Well #4 was not in service when this assessment was completed.

Note: Due to the time when the assessments were completed, some of the ratings might be different if updated to reflect current information.

The complete Assessment Report is available for review at Waterville Valley Water System Office. For more information call Dylan Tucker @236-4781, or visit the DES Drinking Water Source Assessment website at <https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/waterville.pdf>

How can I get involved?

For more information about your drinking water, please call Mark Decoteau @ 236-4730 or Dylan

Tucker @ 236-4781. Although we do not have specific dates for public participation events, feel free to contact us with your questions.

Violations and Other information:

Waterville Valley received 1 Monitoring & Reporting violation in 2022 for Annual Lead & Copper testing. The routine tests were performed, and the town was brought back into compliance.

Waterville Valley received 1 secondary maximum contaminant level (SCML) violation in 2022 during fluoride testing. Further information is on page 4 of this report.

Definitions:

Ambient Groundwater Quality Standard or AGQS: The maximum concentration levels for contaminants in groundwater that are established under RSA 485-C, the Groundwater Protection Act.

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

Level I Assessment: 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 II Assessment: 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.

Maximum Contaminant Level or 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.

Maximum Contaminant Level Goal or 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 Residual Disinfectant Level or MRDL: The highest level of a disinfectant allowed in drinking water. There is 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.

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

Abbreviations:

BDL: Below Detection Limit

mg/L: milligrams per Liter

NA: Not Applicable

ND: Not Detectable at testing limits

NTU: Nephelometric Turbidity Unit

pCi/L: picoCurie per Liter

ppb: parts per billion

ppm: parts per million

RAA: Running Annual Average

TTHM: Total Trihalomethanes

UCMR: Unregulated Contaminant Monitoring Rule

ug/L: micrograms per Liter

Drinking Water Contaminants:

Lead: 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. This water system is responsible for high quality drinking water but cannot control the variety of materials used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water from your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and 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 1-800-426-4791 or at [US EPA Basic Information about Lead in Drinking Water](#)

System Name: Waterville Valley Water District PWS ID: 2441010 2023 Report (2022 Data)

VIOLATIONS

VIOLATIONS	Date of violation	Explain violation	Length of violation	Action taken to resolve	Health Effects (Env-Dw 804-810)
Monitoring and Reporting (M/R) (Lead and Copper)	12/31/2022	Lapse in annual Lead and Copper samples being collected.	46 days	Lead and Copper Samples were taken and analyzed.	N/A. There was no lead found in the Distribution System and 0.04 PPM (99% below Action Level) of Copper was detected in the Distribution System.

The Revised Total Coliform Rule requires an assessment or an investigation of the water system when certain conditions occur. We had zero assessments during 2022.

ASSESSMENTS / ASSESSMENTS NOT COMPLETED

During the past year we were required to conduct Assessment(s)	Number of assessments required in the reporting year	Number of assessments completed in the reporting year	Number of corrective actions required	Number of corrective actions completed	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms 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.
Level I	0/0	0/0	0/0	0/0	
Level II	0/0	0/0	0/0	0/0	
Level II	0/0	0/0	0/0	0/0	<i>E. coli</i> are bacteria whose presence indicates that the water may be contaminated with human or animal waste. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater risk for infants, young children, the elderly, and people with severely compromised immune systems. We found <i>E. coli</i> bacteria, 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.

SIGNIFICANT DEFICIENCY

Significant deficiency description and date of sanitary survey	Source of <i>E. coli</i>	Date deficiency was addressed or corrected	Approved plan and timeframe for correction	Health Effects (Env-Dw 804)
Sanitary Survey 11/17/2021	NA	NA	NA	The survey did not identify any significant deficiencies.

LEAD AND COPPER

Contaminant (Units)	Action Level (AL)	90 th percentile sample value *	Date	# of sites above AL	Violation Yes/No	Likely Source of Contamination	Health Effects of Contaminant
Copper (ppm)	1.3	0.04 PPM	1/13/2022	0	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
Lead (ppb)	15	0 PPB	1/13/2022	0	No	Corrosion of household plumbing systems, erosion of natural deposits	(15 ppb in more than 5%) Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791). (Above 15 ppb) Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

DETECTED WATER QUALITY RESULTS

Microbiological Contaminants

Contaminant (Units)	Level Detected*	Date	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant
<i>E. coli</i> Bacteria	0	NA	0	0	NO	Human and animal fecal waste	<i>E. coli</i> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems.

Radioactive Contaminants

Contaminant (Units)	Level Detected*	Date	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant
Uranium (ug/L)	1.1 ug/L	8/5/21	30 ug/L	0	NO	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.

Inorganic Contaminants

Contaminant (Units)	Level Detected*	Date	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant
Barium (ppm)	Well 2- 0.0013 ppm Well 3- 0.0046 ppm Well- 4	Q3 2022	2 ppm	2 ppm	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure. Town has a waiver to no longer test for this element.

	0.0004 ppm						
Beryllium (ppb)	Well 2- 0.0017 ppb Well 3- <0.001 ppb Well 4- <0.001 ppb	Q3 2022	4 ppm	4 ppm	NO	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries	Some people who drink water containing beryllium well in excess of the MCL over many years could develop intestinal lesions. Town has a waiver to no longer test for this element.
Chlorine (ppm)	Average 0.27 Mg/l	1/1/22 Thru 12/31/22	MRDL= 4 ppm	MRDLG=4 ppm	NO	Water additive used to control microbes	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Fluoride (ppm)	2.1 ppm	8/9/22	4.0 ppm	4.0 ppm	YES See Page 4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Haloacetic Acids (HAA) (ppb)	7.7 ppb Total 3.0 Low/High 1.1 Low 3.0 High	8/10/22	60 ppb	N/A	NO	By-product of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Total Trihalomethanes(TTHM) Bromoform (Bromodichloromethane) Dibromochloromethane (Chloroform) (ppb)	17.8 ppb TOTAL 0.0 LOW 1.3 HIGH 0.0 LOW 8.3 HIGH	8/10/22	80 ppb	N/A	NO	By-product of drinking water chlorination	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Secondary drinking water standards protect public health by limiting the color, taste, odor and visual appearance of the drinking water that may cause consumers not to drink or use the water, even when it is actually safe to drink.

SECONDARY CONTAMINANTS

Secondary MCLs (SMCL)	Level Detected	Date	Treatment technique (if any)	SMCL	50 % AGQS (Ambient groundwater quality standard)	AGQS (Ambient groundwater quality standard)	Specific contaminant criteria and reason for monitoring
Fluoride (ppm)	2.1 ppm	8/9/22	N/A	2 ppm	2	4	<i>Add Health effects language from Env-Dw 806.11 or attach public notice to CCR</i>
PH (ppm)	7.31 ppm	1/1/22 THRU 12/31/22	Potassium Hydroxide	6.5-8.5 ppm	N/A	N/A	Precipitation and geology
Sodium (ppm)	Well #2 2.8 Well #3 5.1	8/09/2022 8/09/2022	N/A	100-250 ppm	N/A	N/A	We are required to regularly sample for sodium

NOTICE ABOUT YOUR DRINKING WATER

Fluoride Secondary Maximum Contaminant Level (SMCL) Exceedance

Public Water System Name: Waterville Valley Water District **PWS ID:** 2441010

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. Your drinking water test result is above the Secondary Maximum Contaminant Level (SMCL) for the following:

Contaminant and SMCL	Detected Level	Date Sampled	Running Annual Average	Compliance Period
Fluoride 2.0 mg/L	2.1 mg/L	8/9/2022	2.1 mg/L	Q3 2022

This is not an emergency. If this was an emergency, you would have been notified immediately.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under 9 years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2.0 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis).

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4.0 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4.0 mg/L of fluoride, but we are required to notify you when we discover that fluoride levels in your drinking water exceed 2.0 mg/L because of this cosmetic dental problem.

What should I do? Children under the age of nine (9) should use an alternative source of water that is low in fluoride.

In addition, you may want to consult your dentist about whether to avoid dental products containing fluoride. Adults and children over age nine should consult their dentist or doctor and show him/her this notice to determine if an alternate source of water low in fluoride should be used. General health related questions may be directed to the EPA Safe Drinking Water Hotline at 1-800-426-4791. *Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP*

Steps being taken to correct the situation:

We are continuing to monitor fluoride levels. We will inform you if levels exceed 4.0 mg/L.

Contact Name: Mark F. Decoteau

Company: Town of Waterville Valley

Address: 14 TAC Lane Waterville Valley, NH 03215

Telephone Number: (603) 236-4730

Please share this information with all the other people who have children that 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 or distributing copies by hand or mail.