



**Tilton & Northfield Aqueduct Co., Inc.**  
14 Academy Street, Tilton, New Hampshire 03276  
Tel.: (603) 286-4213 Fax: (603) 286-2114  
Email: [tnwd@metrocast.net](mailto:tnwd@metrocast.net) Website: [t-nwaterdistrict.com](http://t-nwaterdistrict.com)  
PWS ID# 2351010



## 2024 Water Quality Report

Since 1999 all Public Water Systems have been required to provide an annual water quality report to their customers. This report must detail the quality of your drinking water, where it comes from, and where you can get more information. It must list all regulated drinking water contaminants found in your water and compare them to standard limits.

### 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 Environment Protection Agency's Safe Drinking Water Hotline at 800-426-4791.

*Like any responsible public water system, our mission is to provide the highest quality of water possible. An aging infrastructure presents challenges to drinking water safety and continuous improvement is needed to maintain the quality of life we desire for today and for the future.*

*In order to accomplish this, the Water District is constructing a new water filtration plant located at its well sites in Northfield. The installation of radio read meters continues until all meters are replaced. These are designed to monitor water usage, improve the meter reading and billing processes. This allows monitoring for leaks as they are happening. If we have your contact information, we can let you know right away, or you can sign up on the web portal and get text messages. Contact our office at 603-286-4213 for how to sign up.*

*We are continuing with the required Lead and Copper Service Line Inventory. There is much happening behind the scenes to provide you with high quality water. These investments along with on-going operation and maintenance costs are supported by the rates payers only. When considering the high value we place on water, it is truly a bargain to have water service that protects public health, provides fire protection, supports businesses, the economy, and provides us with the high-quality of life we enjoy.*

**How Can I Get Involved?** For information about your drinking water, please call the Tilton & Northfield Aqueduct Co., Inc. at 603-286-4213 and watch our website [t-nwaterdistrict.com](http://t-nwaterdistrict.com) for any updates. Commissioner's meetings are usually the 1<sup>st</sup> Monday of the month - time: 4:00 pm at 14 Academy Street. Meeting agendas are posted in Tilton and Northfield. The annual meeting is held the second Tuesday in April, at 6:00 pm and is posted in the Towns and published in the paper. Meeting information is also available on our website.

**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/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 (1-800-426-4791).

### Source Water Assessment Summary

New Hampshire Department of Environmental Services (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 Tilton-Northfield Water District has two (2) gravel packed wells located in Northfield and had a Source Water Assessment conducted by the New Hampshire Department of Environmental Services 01/16/2001 and the results of the assessment prepared on 01/16/2001 are noted below. The complete Assessment Report is available for review at 14 Academy Street, Tilton. For more information call the Tilton-Northfield Water District at 603-286-4213 or visit the DES Drinking Water Source Assessment website at <https://des.nh.gov/resource-center/publications?keys=ccr&purpose=&subcategory=drinking+water>.

The Source Water Assessment summary shows source 2351010-003 GPW had 2 HIGHS: (1) the source is within 1,000 ft. of highway and (2) the agricultural land cover over the aquifer is over 10%. On source 2351010-004 GPW there were 3 HIGHS: (1) the source is within 1,000 feet of highway and (2) the agricultural land cover over the aquifer is over 10% and (3) there are 10 or more septic systems and/or any sewer lines within 500 ft. of the well head protection area (WHPA) or there is a high density of [Source Water Assessment Summary Continued](#)

septic systems (more than 30) in the WHPA. We also had one moderate ranking for each well that indicates there is at least 1 registered pesticide applicator in the WHPA but not within 500 Ft. of wellheads. All other assessments were considered LOW.

**Note:** This information is 20 years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

## Description of drinking water contaminants:

**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 stormwater 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.
- **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 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.

**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 or at 1-800-426-4791 or at [US EPA Basic Information about Lead in Drinking Water](#).

<b>Important Drinking Water Definitions</b>	
<b>Term</b>	<b>Definition</b>
AGQS	AGQS Ambient Groundwater Quality Standard. The maximum concentration levels for contaminants in groundwater that are established under RSA 485-C, the Groundwater Protection Act.
AL	AL Action Level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	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.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection 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	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 microbial contaminants.

<b>Unit Descriptions</b>	
<b>Term</b>	<b>Definition</b>
ppm or mg/L or ug/L	ppm: parts per million, or milligrams per liter (mg/L), or micrograms per liter (ug/L)

ppb	ppb: parts per billion, or micrograms per liter (µg/L)
pCi/L	pCi/L: picoCuries per liter (a measure of radioactivity)
ND	ND: Not detected

## Water Quality Data Table

The table below lists all the drinking water contaminants that we detected during the calendar year of this report and up to five previous years. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. 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.

Contaminants	MCLG	MCL,	Your		Sample	Violation	Typical Source
	or	TT, or	Water	Well #1			
	MRDLG	MRDL			Date		
<b>Microbiological Contaminants</b>							
Total Coliform Bacteria	(negative)		No Positive Samples for 2023			No	Naturally present in the environment.
<b>Inorganic Contaminants (Measured as mg/L)</b>			<b>Well #1</b>	<b>Well #2</b>			
Barium	2	2	0.0095	0.0090	2021	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Copper		1.3	.0063	ND	2021	No	Erosion of natural deposits; Leaching from wood preservatives.
Nitrate [Nitrogen]	10	10	0.54	ND	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Hardness			47.6	42.4	2021	No	Erosion of naturally deposited minerals. Water from both wells would fall into the soft water classification.
Radium 226	0	1	0.3		2023	No	Erosion of natural deposits.
Radium 228	0	5	0.2				
<b>Inorganic Contaminants (Measured as mg/L)</b>							
Chlorine	4	4	Average 0.396		2023	No	Water additive used to control microbes.
<b>Secondary Contaminants (Measured as ppm)</b>			<b>Well #1</b>	<b>Well #2</b>			
Iron		0.3	.386	.567	2022	No	Erosion of naturally deposited minerals.
Manganese		0.05	.248	.392	2022	No	Erosion of naturally deposited minerals.
PH		6.5-8.5	7.53	7.80	2022	No	Precipitation and geology.
Sodium		250	19.4	28.8	2021	No	Erosion of natural deposits; Leaching. Naturally Occurring.
Sulfate		250	9.9	5.9	2021	No	
<b>Per- and Polyflouraikyl Substances</b>			<b>Well #1</b>	<b>Well #2</b>			
PFHXS		2.01	ND	ND	2023	No	By-products of industrial processes and petroleum production.
PFNA		2.01	ND	ND	2023	No	
PFOS		2.01	ND	ND	2023	No	
PFOA		2.01	ND	ND	2023	No	
<b>Disinfection By Products</b>			<b>Site #323</b>	<b>Site #322</b>			
Total Trihalomethanes		80	5.4 ug/L	8.3 ug/L	2023	No	Byproduct of drinking water disinfection with chlorine.
Contaminants	MCLG	AL	90 <sup>th</sup> Percentile	Sample Date	# Samples Exceeding AL	Violation	Typical Source
Copper-action level at consumer taps (ppm)	1.3	1.3	0.144	2023	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.
Lead - action level at consumer taps (ppb)	0	15	0	2023	0	No	Corrosion of household plumbing systems; Erosion of natural deposits.

**Regarding Tilton-Northfield Water District, all testing results are well within the parameters for safe/quality drinking water in the State of New Hampshire as reflected in the updated tables above.**

ppm or mg/L or ug/L = ppm: parts per million, or milligrams per liter (mg/L), or micrograms per liter (ug/L).

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

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 contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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

The Water District has secured a combination of grants and loans to complete the Water Treatment Plant located at the well site on Route 140. This Plant will allow the removal of iron and manganese in our water system, which will increase water quality. It is expected to go out to bid in July 2024 with a completion date in the end of 2025.

We are continuing our Lead and Copper Service Line Inventory, which is required by the Environmental Protection Agency and New Hampshire Department of Environmental Services. This requirement is to help identify any potential lead service pipes that could be in the system. If you have the flyer that was sent out explaining how you can help identify your pipes, it would be very helpful if you are able to complete this. You can check our website or NHDES website for additional information.

The Tilton-Northfield Water District invites you to join us at our monthly Commissioner's meetings, usually held the first Monday of the month. These meetings are held at 14 Academy Street starting at 4:00pm. Agendas are posted at the Northfield and Tilton town halls, Hall Memorial Library, and the Pines Community Center.

We continue updating the website with up-to-date information about the various projects going on. The water industry is a very regulated environment with changes happening all the time.

If you are interested in a rewarding career at the Water District, there is a position open for another water operator. Our website contains the Job Description and Application.

We have received an Asset Management Grant which has a number of requirements. One requirement is to complete a Story Map of the Water District. If you have any old documents or photographs that you think we may be able to use, please contact us. We thank you for any items you may have, and we will make sure you get them back.

The Tilton-Northfield Water District thanks both the communities of Tilton and Northfield for their support and all the first responders out there that work so hard to keep everyone in our communities safe. The Water District knows how important it is for all of us to work together to keep these communities clean and safe. We will continue to do our best at delivering the safest and cleanest water possible to all our customers.

Please contact us at 603-286-4213 if you have any issues or concerns, we can assist you with regarding your water. We welcome your feedback.

John P. Chase, Superintendent

Commissioners:

**For more information regarding your Water District, please note that the public meetings are regularly scheduled monthly at the TNAC office. All meeting times and dates are posted at least 72 hours before the meeting at Tilton Town Hall, Northfield Town Hall and in the front window of the TNAC office (14 Academy St.). Please feel free to call the office 286-4213 if you would like to be informed of the next meeting.**

**Tilton-Northfield Water District  
Tilton & Northfield Aqueduct Co., Inc.**  
14 Academy Street  
Tilton, NH 03276  
Phone: 603-286-4213  
Fax: 603-286-2114  
Email: [tnwd@metrocast.net](mailto:tnwd@metrocast.net)  
Website: [t-nwaterdistrict.com](http://t-nwaterdistrict.com)

**Superintendent: John Chase  
Water Works Operator - Treatment Grade I  
Water Works Operator - Distribution Grade II**

**Field Foreman/Water Operator: Doug McPhail II  
Water Works Operator - Treatment Grade I  
Water Works Operator - Distribution Grade II**

\* For after-hours emergencies please call (603) 286-4213, then select option 2. Your call will be forwarded to one of our on-call Water Works personnel directly. For after-hours payments please use the mail slot at 14 Academy Street.