

*Annual Drinking Water Quality Report for 2017*  
*Ray Brook Water District*  
*Town of North Elba*  
*2693 Main St., Lake Placid, N.Y. 12946*  
*Public Water Supply ID# 1500291*

**INTRODUCTION**

To comply with State and Federal regulations the Town of North Elba will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to both raise your understanding of drinking water and to raise your awareness of the need to protect our drinking water sources. Last year, all tap water sampled met the State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or concerns about your drinking water, please phone Superintendent Brad Hathaway at 523-3612. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled town board meetings. The meetings are held on the second Tuesday of each month at 7:00 p.m. at the North Elba Town Hall.

**WHERE DOES OUR WATER COME FROM?**

In general, 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 can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations, which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Your water source consists of two drilled wells (PW-1 and PW-4), each approximately 50 feet deep. Water from both wells is disinfected with a liquid sodium hypochlorite solution prior to distribution. Our water system serves 400 people through 80 service connections.

The NYS Dept. of Health has completed a source water assessment for this system based on available information. The assessment includes an assigned susceptibility rating based on the risk posed by each possible source of contamination and how easily contaminants can move through the ground to the wells. The susceptibility rating is only a rough estimate of the potential for contamination of the source water and it does not mean that the water delivered to consumers is, or will become contaminated. The source water assessment has rated these wells as having an elevated susceptibility. No significant sources of contamination were identified. The wells draw water from an unconfined aquifer and overlying soils are not known to provide adequate protection from potential contamination. Please note that our water supply is disinfected to ensure that the finished water delivered to your home meets the New York State's drinking water standards for microbiological contamination.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include total coliform, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, radiological compounds, and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking water, might be reasonably expected to contain at least a small amount of some contaminants. The presence of a contaminant does not necessarily indicate that the water poses a health risk. More information about contaminants and their potential health effects may be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791) or the Saranac Lake Office of the New York State Health Department (518-891-1800).

Table of Detected Contaminants							
Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Copper	No	7/16	1.00 <sup>1</sup> (0.14 – 1.10) <sup>2</sup>	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	No	7/16	11.8 <sup>1</sup> (ND – 15.0) <sup>2</sup>	ug/L	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Nitrate	No	2017	ND	mg/L	10	MCL=10	Runoff from fertilizer use; Leaching from septic tanks, sewage; erosion of natural deposits
Asbestos	No	2015	ND	MFL	7	7	Decay of asbestos cement water mains; Erosion of natural deposits
<b>Disinfection Byproducts</b>							
Total Trihalomethanes (TTHMs)	No	2017	0.51	ug/L	0	80	Byproduct of drinking water chlorination
Total Haloacetic Acids (HAA5s)	No	2017	ND	ug/L	0	60	Byproduct of drinking water chlorination
<b>Radioactive Contaminants</b>							
Radium 226 & 228	No	2017	0	pCi/L	0	5 (MCL)	Erosion of natural deposits
Gross Alpha	No	2017	0	pCi/L	0	15 (MCL)	Erosion of natural deposits.

**Notes:**

- <sup>1</sup> The level presented represents the 90<sup>th</sup> percentile of the 5 sites tested in 2016. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90<sup>th</sup> percentile is equal to or greater than 90% of the copper or lead values detected at your water system. In this case, 5 samples were collected at your water system and the 90<sup>th</sup> percentile value was the average of the fourth and fifth highest values. None of the sites tested had results that exceeded the lead or copper action level.
- <sup>2</sup> The level presented represents the range of the 5 samples collected in 2016.

**Definitions**

**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.

**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 Residual Disinfectant Level (MRDL):** 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.

**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 the use of disinfectants to control microbial contamination.

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

**Non-Detects (ND):** Laboratory analysis indicates that the constituent is not present.

**Milligrams per liter (mg/l):** Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

**Micrograms per liter (ug/l):** Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

**Picocuries per liter (pCi/L):** A measure of the radioactivity in water.

**Million Fibers per Liter (MFL)** – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**WHAT DOES THIS INFORMATION MEAN?**

As you can see by the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. Even though our water did not exceed the Action Level for lead, we are required to provide the following information on lead in drinking water:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. 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. Ray Brook Water District 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 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

#### IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

Last year, our system was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

#### DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

#### WHY SAVE WATER AND HOW TO AVOID WASTING IT?

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- ◆ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers.
- ◆ Saving water lessens the strain on the water system during a dry spell or drought, which helps to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ◆ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it up and you can save almost 6,000 gallons per year.
- ◆ Check your toilets for leaks by putting a few drops of food coloring into the back of your tank, and then watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.

#### CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. The costs of these improvements may be reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have questions.