

## **Annual Drinking Water Quality Report for 2019**

### **Indian Lake Water District #2**

**PO Box 730 Indian Lake, NY 12842**

**Public Water Supply ID NY2000126**

#### **INTRODUCTION**

To comply with State and Federal regulations, the Town of Indian Lake annually issues a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other standards. 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 concerning your drinking water, please contact Water Superintendent Kevin King at (518) 648-5303. We want our customers to be informed about their water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. They are held on the second Monday of every month at 7:00 pm at the 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 in some cases radioactive material 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.

The sources of water for Indian Lake Water District #2 are four drilled wells. The water from the wells is pumped into the new water plant where it is pre-treated with sodium hydroxide and chlorine before it is pumped through iron and manganese removal filters. The water is disinfected with chlorine before it flows into the 42,000-gallon storage tank below the treatment building. The water is pumped into the distribution system with 2 - 250 gpm pumps. There is an emergency generator to run the water plant in the event of power failure. The distribution system consists of mostly 6" and 8" cast iron piping and some AC piping. There are two storage tanks; a 100,000-gallon glass lined tank and a 150,000-gallon steel tank located on Tower Road. We serve 900 people through 450 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. As mentioned earlier in this report, our water is derived from drilled wells. The source water assessment has rated these wells as having an elevated susceptibility. No significant sources of contamination were identified. The health department will use this information to direct future source water protection activities.

#### **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, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological 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, may be reasonably 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the New York State Health Department (518) 891-1800.



**Table of Detected Contaminants**

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Barium	no	2017	0.0104	mg/l	2	2(MCL)	Erosion of natural deposits
Nitrate	no	2019	0.141	mg/l	n/a	10 MCL	Runoff from fertilizer use, leaching from septic systems & erosion of natural deposits
Zinc	no	2019	0.01	mg/l	n/a	5 (MCL)	Naturally occurring; mining waste
Sulfate	no	2019	6.63	mg/l	n/a	250 (MCL)	Naturally occurring
Chloride	no	2019	72.1	mg/l	n/a	250 (MCL)	Naturally occurring or indicative of road salt contamination
Sodium	no	2019	49.1	mg/l	n/a	See Note 4	Naturally occurring; Road salt; Water softeners; Animal waste.
Lead	no	2018	0.0051 <sup>1</sup> ND – 0.0622 <sup>2</sup>	mg/L	0	.015 (AL)	Corrosion of household plumbing systems.
Copper	no	2018	0.995 <sup>1</sup> 0.126 – 1.13 <sup>2</sup>	mg/l	1.3	1.3 (AL)	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
<b>Disinfection Byproducts</b>							
Total Trihalomethanes (TTHMs)	no	2019	18.3 – 63.2 <sup>3</sup>	ug/L	n/a	80 (MCL)	By-products of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains measurable amounts of organic matter.
Total Haloacetic Acids (HAA5s)	no	2019	13.6 – 27.9 <sup>3</sup>	ug/l	n/a	60 (MCL)	By-product of drinking water chlorination.
<b>Radioactive Contaminants</b>							
Radium 228	no	2011	0	pCi/L	0	5 (MCL)	Erosion of natural deposits
Gross Alpha	no	2011	0	pCi/L	0	15 (MCL)	Erosion of natural deposits.
Gross Beta	no	2011	0	pCi/L	0	50 (MCL)	Decay of natural deposits and man-made emissions.

**Notes:**

- 1 - The level presented represents the 90<sup>th</sup> percentile of the 10 sites tested. 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 lead or copper values detected at your water system. In this case, 10 samples were collected at your water system and the 90<sup>th</sup> percentile value was the second highest value.
- 2 - The levels presented represent the range of the lead and copper samples collected. The action level for lead and copper was not exceeded at any location.
- 3 - The levels represent the range of disinfection byproducts collected in our system at two locations.
- 4 - Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

**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.

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

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

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

**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) –** picocuries per liter is a measure of the radioactivity in water.

## **WHAT DOES THIS INFORMATION MEAN?**

As you can see by the tables, our system had no violations. We have learned through our testing that some contaminants have been detected, however, these contaminants were below the level allowed by the state. Even though there was no lead detected in our water system, we are required to present 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. The Indian Lake Water District #2 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 all applicable New York State drinking water operating monitoring and reporting requirements.

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

Although our drinking water met or exceeded state and federal regulations, 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 saves energy and some of the costs associated with both of these necessities of life;
- ♦ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ♦ Saving water lessens the strain on the water system during a dry spell or drought, helping 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 and you can save almost 6,000 gallons per year.
- ♦ Check your toilets for leaks by putting a few drops of food coloring in the tank, 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.