

***Annual Drinking Water Quality Report for 2017***  
***Village of Cleveland***  
***P.O. Box 501, Cleveland, NY 13042***  
***(Public Water Supply ID# 3704353)***

## **INTRODUCTION**

To comply with State regulations, the Village of Cleveland will be annually issuing 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 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 concerning your drinking water, please contact Zacharia Avery, Designated Water Operator at (315) 675-8611. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled monthly meetings. The meetings are held on the second Tuesday of each month in the Village of Cleveland Hall at 6:30 PM.

## **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.

## **FACTS & FIGURES**

Our water system serves approximately 925 people via 380 service connections. The village's water source consists of two drilled wells with an average depth of approximately 70 feet. The well field is located approximately two miles north of the village's incorporated limits. Water from the wells is pumped into one 250,000-gallon water tower. The Village has an average daily production of 130,000 gallons. The water is disinfected with liquid sodium hypochlorite (Chlorine) using an injection pump at the pump house.

## **SOURCE WATER ASSESSMENT**

The NYSDOH has completed a source water assessment for this system. Possible and actual threats to this drinking water source were evaluated by reviewing limited existing mapped data and available information from past sanitary surveys. The state source water assessment provides a susceptibility rating based on the potential risk posed by each possible source of contamination and how easily contaminants could move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. See section "*Are there contaminants in our drinking water?*" for a list of the contaminants that have been detected. The source water assessment was completed to provide owners and operators with additional information to help them protect your source waters into the future.

As mentioned above, our water is derived from two drilled wells. The source water assessment rated these wells as having a medium-high susceptibility rating for bacteria, viruses, and protozoa. No other significant sources of possible contamination were identified.

**Please note that the finished water delivered into your home meets the New York State’s drinking water standards for microbial contamination.** County and state health departments will use this risk assessment information to direct future source water protection activities. These may include water quality monitoring, wellhead protection, resource management, planning, and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

## 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, disinfection byproducts, and synthetic organic compounds. Our system sampled for total coliform, disinfection byproducts, nitrate, lead and copper in 2017. 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 Oswego County Health Department at (315) 349-3557.

TABLE OF DETECTED COMPOUNDS

Contaminant	Violation Y/N	Date of Sample	Level Detected (Maximum)	Unit Measurement	MCLG	Regulatory Limit (MCL, AL)	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
<b>Nitrate</b> (as Nitrogen) Distribution system	No	12/21/17	610 ug/l	ppb	10,000 ug/l	10,000 ug/l	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Barium</b>	No	6/15/16	13 ug/l	ppb	2,000 ug/l	2,000 ppb	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
<b>Copper</b> 90 <sup>th</sup> percentile*	No	6/20/17	170 ug/l Range 17-430 ug/l	ppb	1,300 ug/l	AL=1300 ug/l	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
<b>Lead</b> 90 <sup>th</sup> percentile*	No	6/20/17	1,0 ug/l Range 1.0 – 3.2 ug/l	ppb	N/A	AL=15.0 ug/l	Corrosion of household plumbing systems, erosion of natural deposits
<b>Chloride</b>	No	2/9/16	15.9 mg/l	ppm	N/A	250 mg/l	Naturally occurring or indicative of road salt contamination.
<b>Sodium</b> **	No	6/15/16	1,400 ug/l	ppb	N/A	N/A	Naturally occurring

<b>Zinc</b>	No	6/15/16	26 ug/l	ppb	N/A	5,000 ug/l	Naturally occurring; Mining waste
<b>Radioactive Contaminants</b>							
<b>Radium-228</b>	No	10/15/13	0.13 pCi/L	pCi/L	0 pCi/L	5 pCi/L	Erosion of Natural Deposits
<b>Disinfection By-Products</b>							
<b>TTHMs</b> Total Trihalomethanes (One Location Tested)	No	8/21/17	3.4 ug/l	ppb	N/A	80 ug/l	By-product of drinking water chlorination
<b>Notes:</b>							
* * The levels presented for copper and lead 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 the distribution that is equal to or below it. The 90 <sup>th</sup> percentile value is equal to or greater than 90% of the values detected in your water system. In this case 10 samples were collected and the 90 <sup>th</sup> percentile value was the second highest value.							
* ** No State standards exist for levels of sodium in public drinking water. However the State recommends that water containing more than 20,000 ppb of sodium not be used for drinking by people on severely restricted sodium diets. Water containing more than 270,000 ppb 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.

**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.

**Millirems per year (mrem/yr):** A measure of radiation absorbed by the body.

## WHAT DOES THIS INFORMATION MEAN?

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.

## 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).

## **INFORMATION FOR NON-ENGLISH SPEAKING RESIDENTS**

### **Spanish**

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

### **French**

Ce rapport contient des informations importantes sur votre eau potable. Traduisez-le ou parlez en avec quelqu'un qui le comprend bien.

## **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 fire fighting 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 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.