

2020 ANNUAL WATER QUALITY REPORT FOR THE VILLAGE OF LIMA AND WATER DISTRICTS ONE AND TWO (TOWN OF LIMA)

New York State Water Supplier ID#: Village NY2501021 Town NY2525000

Each year, water suppliers in New York State are required under New York State Department of Health regulations to distribute a report to their customers that summarizes water quality data for the previous calendar year. Since the Village and Town of Lima water districts purchase their water from the City of Rochester, it is our practice to meet this requirement through the distribution of the City of Rochester annual report. Due to additional treatment (disinfection) and other conditions associated with our system, it is expected that the results of regulated components will differ/vary from those recorded in the City of Rochester report. As a result, this report acts as a supplement to the report provided by the City of Rochester. Both Annual Water Quality Reports can be found online at <https://villageoflima.us/water-quality-reports/>

This report is intended to inform you (our customers) about where your water comes from, what it contains, and how it compares to standards set by local, state, and federal agencies. Our constant goal for the Village and Town of Lima is to provide our customers with an abundant supply of safe drinking water. We would like you to be aware of our continuing efforts to improve the quality and quantity of this valuable natural resource, which we supply to each and every customer. In 2020, the Village and Town of Lima did not violate a maximum contaminant level or any other water quality standard.

WHERE DOES OUR WATER COME FROM?

The Village of Lima began purchasing water from the City of Rochester in the fall of 1989. This water primarily comes from Hemlock Lake, although we do receive some Lake Ontario water mixed in on rare occasions. This is probably the result of the City closing valves due to a water main break or performing maintenance on their mains. We receive the City's water from their system north of the Livingston County line on Route 15A. From there we pump the water south along Route 15A through the Town of Lima supplying the customers of Water District One along the way. At the time of pumping we add a small amount of disinfectant (sodium hypochlorite solution) and a phosphate (Calciquest) to combat rust deposits and build ups in the mains and valves. The chlorine and Calciquest residuals are monitored every day to insure proper dosage. Bacteria testing is performed monthly in the Town and the Village water supplies. In 2020, disinfection by-products were sampled quarterly in both the Village of Lima and in the Town of Lima water supply.

FACTS AND FIGURES

When pumping under normal circumstances, water flows to the Village distribution system and replenishes the water tower located on Seneca Ave. This is done automatically to keep the tower as full as possible at all times. The purpose of the water tower, which holds 500,000 gallons, is (1) to have a two day supply in case there is a problem with our pumping system, (2) to keep a constant water pressure throughout the distribution system, and (3) to act as a reserve for fire protection. In September the Village of Lima began a construction project to rehabilitate the water tower and bring it up to current standards. The tower was bypassed during the project. An emergency connection with the Town of Avon is available to meet demands in an emergency.

In 2020, we pumped on average about 196,000 gallons per day to meet our daily demand. The total amount of water produced in 2020 was 71,478,000 gallons. The amount of water delivered to Village customers was approximately 58 million gallons and the Town customers received approximately 13 million gallons. Our highest one-day total of water pumped into the distribution system was 356,000 gallons. The Village of Lima serves approximately 2,900 people through about 650 service connections. In 2020, we changed to monthly billing. Water customers were charged a base charge of \$8.00 per month and \$6.60 per thousand gallons consumed. The City of Rochester's conduit in North Bloomfield supplies the Town of Lima Water District One and Three. District Two is supplied by the City conduit at the county line on Route 15A where the chlorine residual is monitored monthly. The Town of Lima serves roughly 220 people through 117 service connections. The Town of Lima charges their residents based on meter size and usage per 1000 gallons. For all districts there

is a quarterly fee of \$45.00 per unit according to their meter size. A 5/8 meter is one unit, a one inch meter is two units and a two inch meter is three units. Then in Districts number 2 and number 4 they get charged \$6.70 per 1000 gallons and in Districts 1 and 3 they get charged \$6.05 per 100 gallons. As you will notice the City of Rochester has completed the bulk of this report (PAMPHLET) because they are our supplier. The City of Rochester is required to perform testing for contaminants in the water before it is delivered to Lima. Detected contaminants are listed in the enclosed City of Rochester report.

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 bacteria, lead and copper, and disinfection by-products. The table presented below depicts which compounds were detected in your drinking water. It should be noted that all drinking water, including bottled drinking water, might 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 Livingston County Department of Health (LCDOH) at 585-243-7280.

COLIFORM BACTERIA

Coliform bacteria are a group of bacteria that are commonly used as a measure of the sanitary quality of drinking water. The presence of a specific type of coliform known as *E.coli* is considered to be a potentially serious compromise to the sanitary quality. Bacteria in drinking water not only originate at the source, but also can be introduced through a variety of local distribution conditions. For this reason, we are required to test a minimum of three times per month in the Village water system, and at least once per month in the Town water system. These samples are sent out to a New York State certified laboratory for analysis.

A treatment technique trigger (TTT) occurs if two or more samples are positive for total coliform. An MCL violation occurs if *E. coli* is confirmed to be present.

DISINFECTION BY-PRODUCTS

Disinfection by-products (DBP) are organic chemical compounds that form when disinfectants (in our case, chlorine) react with certain types of organic compounds that are found naturally in the source water. DBP are regulated because at high levels they have been shown to cause adverse health effects over long periods of time. It is important to note that to insure sanitary quality; we are required to maintain a minimum level of chlorine residual throughout the distribution system. Since chlorine dissipates with time and distance, we must add additional chlorine to the water we purchase from the City of Rochester water supply in order to meet this requirement.

The two main categories of regulated DBP are TOTAL TRIHALOMETHANES (TTHM) and five HALOACETIC ACIDS (HAA-5). Levels of these compounds in our water were below the established regulatory limits, also known as the maximum contaminant level (MCL). Compliance for DBPs is based on a locational running annual average, not individual sample results.

Table of Detected Contaminants								
Location	Contaminant	Violation Yes/No	Date of Sample(s)	Level Detected (Avg/Max) (Range)	Unit Measurement	MCLG	Regulatory Limit (AL, MCL, MRDL)	Likely Source of Contamination
Disinfectant: Chlorine Residuals Measured in Distribution								
Village of Lima in distribution	Free Chlorine Residual	No	Monthly	Range (0.02-1.57)	mg/l	N/A	MRDL = 4.0	Water additive used to control microbes
Town of Lima in distribution	Free Chlorine Residual	No	Monthly	Range (0.02-0.08)	mg/l	N/A	MRDL = 4.0	Water additive used to control microbes
Stage 2 Disinfection Byproducts								
Village of Lima 7024 W. Main St (TTHM Site)	Total Tri-halomethanes (TTHM)	No	5/7/2019 8/6/2019 11/5/2019 2/4/2020 5/5/2020 8/4/2020 11/3/2020	¹ 75.75 ² (52-121)	ug/l	N/A	MCL = ¹ 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Village of Lima 7520 E. Main St (HAA-5 Site)	Haloacetic Acids (HAA-5)	No	5/7/2019 8/6/2019 11/5/2019 2/4/2020 5/5/2020 8/4/2020 11/3/2020	¹ 30.25 ² (24-38)	ug/l	N/A	MCL = ¹ 60	By-product of drinking water chlorination.
Town of Lima 1175 Bragg St. (DBP Site)	Total Tri-halomethanes (TTHM)	No	5/21/2019 8/20/2019 11/19/2019 2/8/2020 5/19/2020 8/18/2020 11/17/2020	¹ 64.25 ² (48-77)	ug/l	N/A	MCL = ¹ 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
	Haloacetic Acids (HAA-5)	No	5/21/2019 8/20/2019 11/19/2019 2/8/2020 5/19/2020 8/18/2020 11/17/2020	¹ 4.98 ² (0.9-8.9)	ug/l	N/A	MCL = ¹ 60	By-product of drinking water chlorination.
Lead and Copper								
City of Rochester	Lead	No	June 1-Sept. 30, 2018	³ 11.7	ug/l	0	AL=15	Corrosion of plumbing
City of Rochester	Copper	No	June 1-Sept. 30, 2018	³ 217	ug/l	1.3	AL=1300	Corrosion of plumbing

Notes:

¹ This represents the highest locational running annual average calculated from data collected. Although two TTHM samples exceeded 80 ug/l in the Village of Lima water supply, compliance is calculated based on the highest locational running annual average, which was below the MCL.

² The level presented is the range of results for the samples collected in 2019-2020 used to determine the running annual quarterly averages for 2020. Although some individual samples were above the MCL, compliance is determined by an annual average.

³ During 2018 the City of Rochester collected and analyzed 63 samples for lead and copper. The level included in the table represents the 90th percentile of the levels detected.

Definitions:

Action Level (AL): The concentration of copper or lead that when exceeded triggers actions to be taken by a water system.

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

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

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 contamination.

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.

LEAD

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 Village and the Town of Lima are 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 it for drinking or cooking. If you are concerned about lead in your drinking 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>.

INFORMATION ON FLUORIDE ADDITION

Fluoride is added to your water by the City of Rochester water treatment plant before it is delivered to us. The City of Rochester is one of the many New York water utilities providing drinking water with a controlled low level of fluoride for consumer dental health protection. According to the U.S. Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal level of 0.7 mg/L. To ensure optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis. In 2020, the fluoride levels in your water were within 0.1 mg/L of the CDC's recommended optimal level greater than 99.17% of the time.

IS WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2020, the Village and Town of Lima was in compliance with applicable 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.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes. If it moved, you have a leak.

SYSTEM IMPROVEMENTS

In 2020 we installed an emergency interconnection waterline with the Town of Avon as a backup supply of Water to our water tower. In addition, we rehabilitated our water tower, which included painting and cleaning and bringing the tower up to current codes and requirements. In 2021, we intend to upgrade our distribution system along Route 15A. We will be increasing the watermain size, and adding new hydrants and valving.

CLOSING

If you feel that there might be a problem with your water please call the Village office and we will arrange for a sample to be collected and tested. We regularly send our employees to State certified courses to educate them about managing our water system and how to provide you with the safest drinking water possible.

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. If you should have any questions about this report or any water related topics please feel free to call Benjamin Luft, Village Superintendent of Public Works at (585) 624-4525 or John Sokolowsky, Town Superintendent of Public Works at (585) 582-1443. You may also call The Village of Lima Clerks office at (585) 624-2210, Lima Town Clerks office at (585) 582-1130 or the Livingston County Department of Health at (585) 243-7280.