



# 2020 WATER QUALITY REPORT



**Lucas Estates Water System**  
Public Water Supply ID# NY5522155  
January 1 to December 31, 2020

This report complies with Part 5-1.72, New York State Sanitary Code (10 NYCRR) and federal Consumer Confidence Report regulations (40 CFR Part 141, Subpart O).

### Introduction:

New York American Water (NYAW) is issuing this report describing the quality of drinking water supplied to customers of the Lucas Estates Water System. 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 Environmental Consultants, at (845) 486-1030 or [NewYorkAmWater.com](http://NewYorkAmWater.com). We want you to be informed about your drinking water.

### A Message from the New York American Water President



To Our Valued Customer:

Thank you for the opportunity to serve you. I am pleased to share our **Annual Water Quality Report** with you – this is our report card on the quality of the drinking water delivered to our customers. The report shows that we continue to supply you with water that

meets or surpasses all county, state and federal water quality standards. We encourage our customers to review this report as it provides important details about the source and quality of your drinking water between January and December 2020.

New York American Water invests in our infrastructure to ensure the delivery of quality drinking water. This includes the facilities and technology needed to draw water from the source and treat it, along with miles and miles of pipeline hidden below the ground to bring water to your tap. In addition, our plant operators, water quality experts, engineers and maintenance crews work around the clock to provide you with quality water.

Delivering safe, reliable water service requires significant investment to maintain and upgrade aging facilities. **In 2020, we invested approximately \$62 million in system improvements across the state.** New York American Water is also making important investments in water treatment technology to comply with New York State Department of Health's new drinking water standards for emerging compounds, specifically 1,4-Dioxane, PFOA and PFOS.

The COVID-19 public health emergency highlighted how essential water is for public health. We remain steadfast in our commitment to delivering safe and reliable water service while maintaining a safe environment for our employees and customers. New York American Water extends our sincerest gratitude to our field employees as well as all frontline workers and essential employees who are on the job and keeping life flowing. Thank you!

Sincerely,

Lynda DiMenna  
President, New York American Water



## About New York American Water

New York American Water, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water company in New York, providing high-quality and reliable water and/or wastewater services to approximately 350,000 people.

## About American Water

With a history dating back to 1886, American Water is the largest and most geographically diverse publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states and Ontario.

## 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 promote public health, the State and the EPA prescribe regulations which limit the number of certain contaminants in water provided by public water systems. The State Health Departments and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves 95 people through 35 service connections. Our water source is one groundwater well, located at 2919 Lucas Turnpike. The water is chlorinated prior to distribution.

The NYSDOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumer 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 assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated this well as having a medium to high susceptibility to microbials, nitrates, industrial solvents, and other industrial contaminants. These ratings are due primarily to the close proximity of a

septic system within the assessment area. In addition, the well draws greater than 100 gallons per minute from an unconfined aquifer, and the overlying soils do not provide adequate protection from potential contamination. Please note that while the source water assessment rates our well as being susceptible to microbials, our water is disinfected to ensure that the finished water delivered into your home meets the New York state drinking water standards for microbial contamination. A copy of this assessment, including a map of the assessment area, can be obtained by contacting us at our office at 2919 Lucas Tpke. Accord, NY at (845)-626-3288.

## Are there contaminants in our drinking water?

As NY State regulations require, we routinely test your drinking water for numerous contaminants, including: Total coliform, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, and synthetic organic compounds, total trihalomethanes, haloacetic acids and radiologicals. The tables presented below show 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. Please refer to the "Water Quality Results" chart for more information.

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 Ulster County Health Department at (845) 340-3010.

## Definitions:

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

**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.



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

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

**Nanograms per liter (ng/l):** Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion - ppt)

**N/A:** Not applicable.

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

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

## Water Quality Results

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 Contaminant</b>							
Barium	No	09/2020	0.026	mg/l	2	2	Erosion of natural deposits
Copper <sup>1</sup>	No	09/2018	90 <sup>th</sup> %= 0.170 Range= 0.0776-0.213	mg/l	1.3	AL= 1.3	Corrosion of galvanized pipes
Lead <sup>2</sup>	No	09/2018	90 <sup>th</sup> %= 1.35 Range= ND - 1.52	ug/l	15	Al = 15	Corrosion of household plumbing
Nitrate	No	03/2020	0.08	mg/l	10	10	Runoff from fertilizer use; leaching from septic tanks
THM (trihalomethanes)	No	08/2019	1.40	ug/l	N/A	80	By-product of drinking water chlorination
HAA (haloacetic acids)	No	08/2019	ND	ug/l	N/A	60	By-product of drinking water chlorination
Sodium	No	12/2018	3.54	mg/l	N/A	See Health Effects <sup>3</sup>	Naturally occurring; Road salt; Water softeners
<b>Radioactive Contaminants (in raw water wells) <sup>4</sup></b>							
Gross Alpha	No	09/2020	0.501	pCi/L	0	15	Erosion and decay of natural deposits.
Uranium	No	09/2020	0.363	ug/L	0	30	Erosion and decay of natural deposits.

### Notes:

<sup>1</sup> - 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 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 0.170 mg/l (ppm). The action level for copper was not exceeded at any of the sites tested.

<sup>2</sup> - The level presented represents the 90<sup>th</sup> percentile of the 5 samples taken, which was 1.35 ug/l (ppb). The action level for lead was not exceeded at any of the sites tested.

<sup>3</sup> - Sodium (mg/l): Water containing more than 20 mg/l of sodium should not be used for drinking by people on a severely restricted sodium diet. Water in excess of 270 mg/l of sodium should not be used for drinking by people on a moderately restricted diet.

<sup>4</sup> - Radiological constituents were also sampled on raw water wells, as per health department requirements. 30 µg/l of uranium is approximately 20.1 pCi/L.

### What does this information mean?

As you can see by the table, our system had no violations in 2020. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below New York State requirements.

### Is our water system meeting other rules that govern operations?

During 2020, our system was in compliance with all applicable New York State drinking water operating, monitoring, and reporting requirements.



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## 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 several reasons why it is important to conserve water:

- Saving water saves energy and some of the costs associated with both 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. 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. 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 can save more than 30,000 gallons a year.

New York American Water is offering a free 'leak detection kit' for home use. If desired, please call our 24-hour customer call center at 877-426-6999 and request one.

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources. For questions concerning this report or your water quality, please contact Natasha Niola, Water Quality Manager, at 516-273-5670; or New York American Water's customer call center at 1-877-426-6999; or on the web at [newyorkamwater.com](http://newyorkamwater.com).

