

Village of Highland Falls

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DRINKING WATER QUALITY REPORT CALENDAR YEAR 2022

Public Water Supply ID # 3503532

We are pleased to present to you this year's Annual Water Quality Report. This is to inform you about the quality water services we deliver to you every day. Our constant goal is to provide you with a safe dependable supply of drinking water. We want you to understand the efforts we make continually to improve the water treatment process and protect our water sources. We are committed to ensure the quality of our water. We are pleased to report that our water meets federal and state requirements.

INTRODUCTION

To comply with State and Federal regulations, Highland Falls is pleased to present its 2022 Annual Water Quality Report. The purpose of this report is to raise your understanding of drinking water and your awareness of the need to protect our drinking water sources. Last year, your tap water met all state drinking water health standards, and we are proud to report that our system never violated 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 questions concerning your drinking water, please contact Mr. John Sibley, Water Plant Operator (845) 446-3252.

WHERE DOES OUR WATER COME FROM?

In general, the sources of drinking water (both tap 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 contaminants; and radioactive contaminants. In order to insure 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's Health Department and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source is a surface water supply that encompasses a 2.9 square-mile drainage area, which is located within the Highlands. The water is withdrawn from the main intake basin and treated by filtration to remove particulate matter. Chlorine is added to kill microorganisms. Fluoride is added for dental benefits and sodium carbonate for corrosion control prior to distribution.

SOURCE WATER SUSCEPTIBILITY TO CONTAMINATION

The NYS DOH has evaluated this PWS's susceptibility to contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraph below. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for this PWS. This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards.

This assessment found a moderate susceptibility to contamination for this source of drinking water. Land cover and its associated activities within the assessment area does not increase the potential for contamination. No permitted discharges are found in the assessment area. There are no noteworthy contamination threats associated with other discrete contaminant sources. Additional sources of potential contamination include: roadways. Finally, it should be noted that hydrologic characteristics (e.g. basin shape and flushing rates) generally make reservoirs highly sensitive to existing and new sources of phosphorous and microbial contamination.

A copy of the assessment, including a map of the assessment area, can be obtained by contacting us, as noted in this report

FACTS AND FIGURES

Our water system serves approximately 5,400 people through 1,593 service connections including the Town of Highlands Water District. The total amount of water from our reservoir system treated at our water plant during the 2022 water billing period was 184,275,000 gallons. The amount of water treated and delivered to the water distribution system was 155,275,000 gallons. The highest single day of filtration was 600,000 gallons. The amount of water that was metered and billed to consumers was 110,186,353 gallons. This leaves 45,088,647 gallons of water that was used for village buildings, parks, cemeteries, fighting fires, flushing water mains and water leaks. The average daily flow into the water plant was 530,000 gallons per day. The Town's usage was 104,888 gallons of water per day. Water rates in the village were \$ 95.00 minimum (0 to 5000 gal) over 5000 gal \$4.63 per 1,000 gallons. The town water district rate was minimum \$142.50 (0 to 5000 gal) \$6.94 per 1,000 gallons. over 5000 gal.

WHAT IS HAPPENING IN OUR WATER SYSTEM

The village of Highland Falls continuously performs repairs and maintains its system to provide the highest quality water.

There were nine (9) water leaks repaired in the system during 2022. There were Three (3) water main and six (6) service connection leaks.

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 coli form, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds. The table presented at the end of this report 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 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 EPA's Safe Drinking Water Hotline (800) 426-4791 or the Orange County Health Department at (845) 291-2331.

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
Barium	No	12/16/22	8.5	ug/l	2000	MCL = 2000	Erosion of natural deposits.
Fluoride	No	Daily	Ave. = 0.73 Range 0.5 – 0.88	mg/l	N/A	MCL = 2.2	Water additive that promotes strong teeth
Nickel	No	12/16/22	0.57	ugl	NA	MCL 100	Erosion of natural deposits
Copper (See Note3)	No	2020	90 th = 0.042 Range = ND to 0.06	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems
Lead (See Note2)	No	2020	90 th = 1.7 Range = ND to 17	ug/l	0	AL = 15	Corrosion of household plumbing systems
Hexachlorocyclopentadiene (SOC)	No	10/31/22	0.16	ugl	N/A	MCL 5.0	Discharge from chemical factories.
Total Trihalomethanes (TTHMs) ⁵	No	2022	Max LRAA = 49 Range = 18 to 87	ug/l	N/A	MCL = 80	Byproduct of drinking water disinfection needed to kill harmful organisms.
Five Haloacetic Acids (HAA5) ⁵	No	2022	Max LRAA = 20 Range = 15.4 to 28	ug/l	N/A	MCL = 60	Byproduct of drinking water disinfection needed to kill harmful organisms.
Turbidity See Note -1	No	9/6/2022	0.074	NTU	N/A	TT ≤ 1.0 NTU, always	Soil runoff
Turbidity ¹	No	2022	100%	NTU	N/A	TT=95% of samples ≤ 0.3 NTU each month	Soil runoff
Total Organic Carbon Removal Ratio ⁹	No	Monthly	1.0	unitless	N/A	TT Must be ≥ 1.00	Naturally present in the environment.
Sodium	No	1/19/21	36	mg/l	N/A	See Note 5	Road salt
Chloride	No	2019	29	mg/l	N/A	MCL = 250	Naturally Occurring
Perfluorooctanoic Acid (PFOA)	No	Qtrly 2021	ND – 0.678	ng/l	n/a	MCL = 10	Released into the environment from widespread use in commercial and industrial applications

TABLE NOTES:

1. Turbidity is a measurement of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Our highest single turbidity measurement for the year occurred on 9/6/22 (0.074 NTU). State regulations require that turbidity must always be less than or equal to 1.0 NTU. The regulations also require that at 95% of turbidity samples collected have measurements below 0.3 NTU.
2. The level presented represents the 90th percentile of the 20 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 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, twenty samples were collected at your water system and the 90th percentile value was the third highest value. The action level for copper was not exceeded at any of the sites tested.
3. The level presented represents the 90th percentile of the twenty samples collected. The action level for lead was exceeded at one of the sites tested.
4. Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5) - Two (2) samples are collected each quarter. TTHM and HAA5 are produced when chemical disinfectants, like chlorine, react with natural organic matter. The maximum contaminant level for Total Trihalomethanes and Haloacetic Acids is 80ug/l and 60 ug/l respectively, based on a running annual average. LRAA – Locational Running Annual Average
5. 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.

TABLE DEFINITIONS:

Maximum contaminant level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to 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 not 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-Detect (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 NTUs 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).

Nanograms per Liter (ng/l): Corresponds to one part of liquid in one trillion parts of liquid (parts per trillion-ppt).

WHAT DOES THIS INFORMATION MEAN?

It should be noted that the action level for lead was exceeded in one of the samples collected. 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 of Highland Falls 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 you 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>.

A supplement containing all test results are available for viewing at the Highland Falls Water Plant.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2022, our system was in compliance with all applicable state drinking water requirements.

WAYS TO SAVE WATER & MONEY

- Saving water saves energy and some of the costs associated with both of these necessities of life.
- 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 tap when brushing 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 6000 gallons per year.
- Check your toilet 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 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.
- You can conserve outdoors as well: Water lawn and garden early in the morning or evening. Use mulch around your shrubs and plants. Use water-saving nozzles. Use water from bucket to wash your car and save the hose for rinsing. Don't water your sidewalk or driveway—sweep them clean.

CLOSING

Thank you for allowing us to provide your family with quality water this year. We ask that all our customers help us to protect our water resources, which are the heart of our community and our way of life. Please call our office if you have any questions.

To pay water bills or register online account visit www.highlandfallsny.org.

Our normal work hours are 7:00 AM to 3:30 PM, Monday - Friday.

Our telephone numbers are:	Billing:	(845) 446-3400, M-F (9:00 AM-4:00 PM)
	Operations:	(845) 446-3252, M-F (7:00 AM-3:30 PM)
	FAX:	(845) 446-2598

EMERGENCY AFTER HOURS: (845) 446-4911

Water Department Employees carry a photo ID. If a Water Department Employee cannot produce a photo ID, you do not have to allow access to your home for meter repairs or meter readings.

Your Water Plant Operators are New York State Department of Health Certified.

Any time the water department is going to shut down a water main, we make every effort to notify you of the time and duration of the shut down. In times of an "EMERGENCY", we must shut the water down without notice.

SECURITY - Customers should report any suspicious activity within our Water System by calling (845) 446-4911.