

The Town of Granville, with the assistance of RCAP Solutions, is in the beginning stages of conducting a household income study in the North Granville water district. RCAP Solutions is a nonprofit, federally funded organization that assists municipalities like Granville with applying for financial aid at no-cost to the community.

The improvements the Town has completed in the water system has been within our financial means to do so. However, the main water pipes are the expensive part and the only way we can accomplish this is by applying for grants and low-interest loans to keep user rates as low as possible.

To even apply for funding, this income study must be conducted. A very high rate of participation is required. Only residential households in the water district are asked to participate. To achieve the best possible success, the Town has asked RCAP to assist us. RCAP has been working with the Town's water department to set up a secure online form to input your information. Responses are confidential and will only be reviewed by RCAP, who will provide the Town with a summary report.

At some point, depending on the amount of participation, a mailer may be sent to your home or a volunteer may knock on your door to complete the survey. We cannot encourage participation enough! If anyone has any questions, please feel free to call the Town office at 518-642-1500.

Residents of the water district can complete the survey form is at: <https://bit.ly/3V2X8N> or by scanning the code, below. You may also call RCAP Solutions at 607-233-3824 to complete the survey. Paper copies are available upon request or at the Town Hall.

Thank you for your participation! We can't do it without you!



**Annual Drinking Water Quality Report for 2022**  
North Granville Water District  
42 Main Street, Granville, NY 12832  
Public Water Supply Identification Number NY5700121

**INTRODUCTION**

To comply with State regulations, the North Granville Water District, 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. We are very pleased to provide you with this year's Annual Water Quality Report. Last year, your drinking water met all State drinking water health standards. This report is 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 New York State standards. Our constant goal is and always has been, to provide to you a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. If you have any questions concerning this report or concerning your drinking water please contact: *Mr. Marc Kretzer Chief Water Operator, North Granville Water District, PO Box 177, Granville, NY 12832; Telephone (518) 642-2560.* We want our valued customers to be informed about their water service. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. They are held on the 1<sup>st</sup> Thursday of each month, 7:00 PM at the Town Hall, 42 Main Street, Granville, NY 12832; Telephone (518) 642-2560. If you want to learn more, please call us.

**WHERE DOES OUR WATER COME FROM?**

The North Granville Water District draws its water from a groundwater source. A second source of water is Well #3, located to the left of the pumphouse. Well #3 is a 6-inch diameter drilled well, originally 365 feet deep then deepened to 660 feet, yielding about 25,000 gpd. Water from the drilled well #3 is treated in an aeration system to remove sulfur odor from the water. A redundancy Well #3A was put into service in 2020. Well #4 was installed in 2019, is about 400 feet deep and yields about 18,700 gpd. Wells #5 and #6 were installed in 2022. All 4 wells are driven by variable speed pumps. The use of the spring source and the creek have been discontinued. They will be held as auxiliary sources. It is chlorinated prior to entering the chlorine contact tank. Soda ash is added for corrosion control as the water leaves the chlorine contact tank. The water then flows to a 300,000-gallon on-grade storage tank located on a hill off Route 22, east of the intersection with County Route 17. The water flows by gravity from the tank to the distribution system.

The source water assessment performed by the New York State Health Department has rated our source water as having an elevated susceptibility to microbial contamination. It should be noted that the SWAP looks at the untreated water only. Our water is treated to minimize the potential sources of contamination. The SWAP summary for our water supply is attached to this report.

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; trihalomethanes, haloacetic acids and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and 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 AND FIGURES**

The North Granville Water District provides water through 224 service connections to a population of approximately 800 people. Our average daily demand is 34,460 gallons. Our single highest day was 48,319 gallons. The total water produced in 2022 was 12,518,000 gallons.

**ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

In accordance with State regulations, the North Granville Water District routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, radiological contaminants, lead and copper, nitrate, volatile organic contaminants, and synthetic organic contaminants. In addition, we test 1 sample for coliform bacteria each month. The table presented below depicts which contaminants were detected in your drinking water. The state allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is 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 pose 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 Department of Health Glens Falls District Office at (518) 793-3893.

#### 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.

New York State has adopted the first in the nation drinking water standard for 1,4-Dioxane along with one of the lowest maximum contaminant levels for PFOA and PFOS.

Public Water Supplies in NYS are required to test for PFOA, PFOS and 1,4-Dioxane. PFOA and PFOS have Maximum Contaminant Levels (MCL) of 10 parts per trillion and 4 quarters of monitoring have been completed with no detects for PFOA, PFOS & 1,4-Dioxane.

#### IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2022, our system 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 microbiological pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

#### INFORMATION ON LEAD

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The North Granville Water District is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Marc Kretzer, North Granville Water District at (518) 642-2560. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

#### CAPITAL IMPROVEMENTS

During 2022 the following improvements have been made to the water system:

- ◆ Two new wells (Wells 4 & 5) have been put online in 2022

#### WATER CONSERVATION TIPS

The North Granville Water District encourages water conservation. There are a lot of things you can do to conserve water in your own home. Conservation tips include:

- ◆ Only run the dishwasher and clothes washer when there is a full load
- ◆ Use water saving showerheads
- ◆ Install faucet aerators in the kitchen and the bathroom to reduce the flow from 4 to 2.5 gallons per minute
- ◆ Water garden and lawn for only a couple of hours after sunset
- ◆ Check faucets, pipes and toilets for leaks and repair all leaks promptly
- ◆ Take shorter showers

#### CLOSING

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. 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.

**North Granville Water District # 1**  
**PWSID# NY5700121**  
**Source Water Assessment Summary**

The NYS DOH 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 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 assessments provide resource managers with additional information for protecting source waters into the future.

The source water assessment has rated our source water as having an elevated susceptibility to microbial contamination. These ratings are due primarily to the close proximity of the wells to permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the associated industrial activity in the assessment area. In addition, the wells draw from an unconfined aquifer (a shallow aquifer that occurs immediately below the ground surface and has no overlying protective layer for protection from potential sources of contamination) of unknown hydraulic conductivity. While the source water assessment rates our wells as being susceptible to microbials, please note that our water is disinfected to ensure that the finished water delivered into your home meets New York State's drinking water standards for microbial contamination.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning and education programs. A copy of the full Source Water Assessment, including a map of the assessment area, is available for review by contacting us at the number provided in this report.

**Table of Detected Contaminants**  
**NORTH GRANVILLE WATER DISTRICT**  
**PWS ID#NY5700121**

Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely source of Contamination
<b>Microbiological Contaminants</b>							
Turbidity (Highest value from 8/31/22)	N	Daily	0.13 <sup>1</sup>	NTU	N/A	TT=1.0	Soil Run-off
August 2022			99.91%			TT=95% of samples <0.3 NTU	
<b>Inorganic Contaminants</b>							
Arsenic	N	8/16/22	1.4	µg/l	N/A	MCL=10	Erosion of natural deposits.
Barium	N	8/16/22	148	µg/l	2000	MCL=2000	Erosion of natural deposits
Chloride	N	8/16/22	44.0	mg/l	N/A	MCL=250	Erosion of natural deposits
Copper Range of values	N	8/16/22- 9/8/22	0.271 <sup>2</sup> 0.0466- 0.389	mg/l	1.3	AL=1.3	Corrosion of household plumbing systems
Lead Range of values	N	8/16/22- 9/8/22	1.4 <sup>3</sup> ND-1.7	µg/l	0	AL=15	Corrosion of household plumbing systems
Manganese	N	8/16/22	24.3	µg/l	N/A	MCL=300	Naturally occurring
Nickel	N	8/16/22	0.7	µg/l	N/A	N/A	Naturally occurring
Nitrate	N	8/16/22	0.121	mg/l	10	MCL=10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
pH	N	8/16/22	7.0	units	N/A	6.5-8.5	
Sodium <sup>4</sup>	N	8/16/22	54.6	mg/l	N/A	N/A	Road salt; geology
Sulfate	N	8/16/22	18.6	mg/l	N/A	MCL=250	Naturally occurring
Zinc	N	8/16/22	19.8	µg/l	N/A	MCL=5000	Galvanized pipe
<b>Disinfection Byproducts</b>							
Stage 2 Haloacetic Acids	N	8/16/22	8.1	µg/l	N/A	MCL=60	By-product of drinking water chlorination
Stage 2 Trihalomethanes	N	8/16/22	4.41	µg/l	N/A	MCL=80	By-product of drinking water chlorination
Chlorine Residual (average) range	N	Daily	0.8 0.5-1.6	mg/l	MRDLG N/A	MRDL MCL=4	Used in the treatment and disinfection of drinking water
<b>Notes:</b>							
1-Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Level detected represents the highest level detected. The regulations also require that 95% of the turbidity samples collected have measurements below 1.0 NTU. We monitor distribution system turbidity 5 days a week with 0.09 NTU being the average.							
2 - The level presented represents the 90 <sup>th</sup> percentile of 10 test sites. 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, 10 samples were collected at your water system and the 90 <sup>th</sup> percentile value was the 9 <sup>th</sup> sample with 2 <sup>nd</sup> highest value (level detected 0.271 mg/l). The Action Level for copper was not exceeded at any of the sites tested.							
3 - The level presented represents the 90 <sup>th</sup> percentile of the 10 samples collected. In this case, 10 samples were collected at your water system and the 90 <sup>th</sup> percentile value was the 9 <sup>th</sup> sample with the 2 <sup>nd</sup> highest value (level detected 1.4 µg/l). The action level for lead was not exceeded at any of the sites tested.							
4 - Water containing more than 20 ppm should not be consumed by persons 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.							
<b>Glossary</b>							
<i>Non-Detects (ND)</i> - laboratory analysis indicates that the constituent is not present.							
<i>Action Level</i> - the concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.							
<i>90<sup>th</sup> Percentile Value</i> - The values reported for lead and copper represent the 90 <sup>th</sup> percentile. 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 and copper values detected at your water system							
<i>Parts per million (ppm) or Milligrams per liter (mg/l)</i> - one part per million corresponds to one minute in two years or a single penny in \$10,000.							
<i>Parts per billion (ppb) or Micrograms per liter (µg/l)</i> - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.							
<i>Parts per trillion (ppt) or Nanograms per liter (nanograms/l)</i> - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.							
<i>Maximum Contaminant Level</i> - The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.							
<i>Maximum Contaminant Level Goal</i> The "Goal" (MCLG) is 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.							
<i>Maximum Residual Disinfectant Level (MRDL)</i> : 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.							
<i>Maximum Residual Disinfectant Level Goal (MRDLG)</i> : 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.							
<i>Locational Running Annual Average (LRAA)</i> - The LRAA is calculated by taking the average of the four most recent samples collected at each							
<i>N/A-Not applicable</i>							