

## *Annual Drinking Water Quality Report for 2021*

*Village of Stamford  
84 Main Street, Stamford NY 12167  
(Public Water Supply ID#1200272)*

### **INTRODUCTION**

To comply with State regulations, the Village of Stamford, 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. 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 Ralph Rossi, Chief Operator, at (607) 652-3172. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled village board meetings. The meetings are held on the third Tuesday of each month, at 7 PM in the Village of Stamford Clerk's Office.

### **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 Environmental Protection Agency (EPA) prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the Food and Drug Administration's (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system serves 1,280 people through 500-service connection. Our water source is drawn from two sources. The first (main) is surface water drawn from the Taylor Reservoir, located north of the village off State Route 10. The second (auxiliary) is ground water drawn from an 18 foot deep dug well, also located east of the Village off State Route 10. Prior to distribution the water from the reservoir is filtered, with the aid of a coagulant, through two sand filters. Then water from both sources has the following added: chlorine to protect against microbial contaminants, fluoride to aid in reducing cavities, and sodium hydroxide to protect piping from corrosion as well as to protect you from lead and copper contaminants. In addition we implemented Carus, a poly/orthophosphate, which will further protect the system from corrosion and Lead and Copper.

The N.Y.S. D.O.H. has completed a source water assessment for this system, based on available information. Possible and actual threats to the drinking water sources 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 drinking water sources.

The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to the consumers is, or will become contaminated. While nitrates (and other contaminants) were detected in our water, it should be noted that all drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants from natural sources. The presence of contaminants does not necessarily indicate that the water poses a health risk. The nitrate levels in our sources are not considered high in comparison with other sources in this area. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected.

As mentioned before, our water is delivered from an 18 foot deep dug well and a reservoir. The source water

assessment has rated the well as having a high susceptibility to industrial solvents and other industrial contaminants, and a medium-high susceptibility to microbials and nitrates. These ratings are due primarily to the close proximity of bulk chemical storage with-in the assessment area. In addition, the well draws from an unconfined aquifer of unknown hydraulic conductivity. The assessment area for the reservoir contains agricultural land in the watershed, which poses a variety of risks to drinking water quality. The greatest risks are associated with microbial contaminants, followed by pesticides, phosphorus and disinfection-byproduct precursors. While the source water assessment rates our water sources 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. A copy of the assessment, including a map of the assessment area, can be obtained by contacting us, as noted below.

## ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test our drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds. 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 New York State Department of Health, Oneonta District Office, at 607-432-3911.

Table of Detected Contaminants							
Contaminant	Violation Yes/ No	Date of Sample	Level Detected (Average) (Range)	Unit Measur- ement	MCL G	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Nitrate (Filter Plant) (Kelly Well)	No No	2/25/2021 6/17/2021	0.51 1.0	mg/l mg/l	10	10 mg/l (MCL)	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Barium (Filter Plant) Barium (Kelly Well)	No No	3/11/2021 9/19/2019	0.023 0.019	mg/l mg/l	2	2 mg/l (MCL)	Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits.
Lead (distribution) *see note 1	No	6/24/21	90 <sup>th</sup> %=2.5 <sup>1</sup> ug/L Range (ND - 9.4)	ug/l	0	15 ug/l (AL)	Corrosion of household plumbing systems; erosion of natural deposits.
Copper (distribution) * see note 2	No	6/24/2021	90 <sup>th</sup> % = 0.818ug/L <sup>2</sup> Range(0.002- 0.866 ug/L)	ug/L	0	1.3 ug/L (AL)	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.

<b>Total Trihalomethanes(Tthms)</b> (Distribution System) *see note 3	No	Quarterly	54.06ug/l Range: 43.21 – 58.78	ug/l	n/a	80 ug/l	By-product of drinking water chlorination needed to kill harmful organisms. TTHM's are formed when source water contains organic matter.
<b>Total Haloacetic Acids(Haa5)</b> (Distribution System) *see note 3	No	Quarterly	16.15ug/l Range: 3.0 – 21.4	ug/l	n/a	60 ug/l	By-product of drinking water disinfection needed to kill harmful organisms.
<b>Fluoride (Filter Plant)</b>	No	11/19/2020	0.66	mg/l	n/a	2.2 mg/l	Erosion of natural deposits; Water additive that promotes strong teeth;
<b>(Kelly Well)</b>	No	9/19/2019	0.53	mg/l			Discharge from fertilizer and aluminum factories.
<b>Nickel (Kelly Well)</b> (Filter Plant)	No No	9/19/2019 3/11/2021	0.001 0.0005	mg/l mg/l	n/a n/a	n/a n/a	Naturally occurring
<b>Chloromethane (Kelly Well)</b>	No	Quarterly	0.92 Range: ND-0.92	ND	5	n/a	Used in organic chemistry; used as an extractant for greases,oils,and resins ;as a solvent in the rubber industry; as a refrigerant, blowing agent and propellant in polystyrene foam production; as an anesthetic; as an intermediate in drug manufacturing; as a food additive, a fumigant and a fire extinguisher.
<b>Gross Alpha activity (including radium-226 but excluding radon and uranium (Filter Plant))</b>	No	12/3/2020	3.15 PCi/L	PCi/L	0	15	Erosion of natural deposits.
<b>Iron (Distribution System)</b>	No	2/06/2020	243 ug/L	ug/L	N/A	300	Naturally Occurring.
<b>Chromium</b>	No	11/19/2020	3 ug/L	ug/L	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
<b>Alkalinity (Carbonate) (Kelly Well) (Filter Plant ) (Distribution)</b>	No	8 Samples every 6 Months	35.1mg/l Range :21 – 72mg/l	Mg/L	N/A	N/A	Naturally occurring
<b>Ph (Kelly Well) (Filter Plant) (Distribution)</b>	No	8 Samples every 6 Months	7.37 Range : 7.26 – 7.60	N/A	N/A	N/A	Naturally occurring
<b>Copper, Free (Kelly Well) (Filter Plant) (Distribution)</b>	No	6 Samples Every 6 Months	0.051mg/l Range(0.013– 0.051mg/l)	Mg/L	N/A	N/A	Corrosion of household plumbing systems; Erosion of natural deposits; leaching from wood preservatives.
<b>Calcium (Kelly Well) (Filter Plant) (Distribution)</b>	No	8 Samples every 6 Months	10.4 Range :8.07 -17.9 mg/l	Mg/L	N/A	N/A	Naturally occurring

Conductivity (Kelly Well) (Filter Plant) (Distribution)	No	8 Samples every 6 Months	233 UMHO Range : 112- 581 UMHO	UMHO	N/A	N/A	Naturally occurring
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#### Notes:

1 – The level presented represents the 90<sup>th</sup> 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 90<sup>th</sup> percentile is equal to or greater than 90% of the Lead values detected at your water system. In this case, twenty samples were collected at your system and the 90<sup>th</sup> percentile value was 9.4 ug/l in June. The action level was not exceeded in any of the samples last year. *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 Stamford 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 your 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>.*

2 – The level presented represents the 90<sup>th</sup> 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 90<sup>th</sup> 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 system and the 90<sup>th</sup> percentile value was 0.818 mg/l in June. The action level was not exceeded in any of the sites tested in June 2021.

3 – This level represents the highest locational running annual average calculated from data collected.

#### 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.

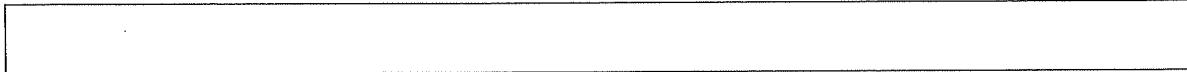
**Non-Detects (ND):** Laboratory analysis indicates that the constituent is not present.

**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).

#### WHAT DOES THIS INFORMATION MEAN?

The table shows that our system recovered from problems in previous years. The action level for copper was exceeded in 2020. In 2021 we were removed from the “action level” of lead and copper sampling. Our corrosion control treatment program was successful. We are now considered in compliance with the requirements to provide optimum corrosion control treatment. Also the one sample of lead that was in the “action level” was not detected this year.



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

As mentioned above sampling during 2021 showed that our system recovered from problems of previous years. The action level for copper was exceeded in 2020. With the treatment installed in our system the Copper level was exceeded in thirteen samples in June 2020, but none in December of 2020. We will continue to monitor and review our corrosion control treatment. In response to “our action level” for exceeding copper levels the N.Y.S. Dept. of Health approved the water system to add a corrosion inhibitor chemical to the water system. The approved corrosion inhibitor chemical Carus 8600 is now being added. It is a poly/orthophosphate blend, dosed at 1mg. per liter (mg/L) in the distribution system. With the help of this chemical we were in compliance with corrosion control. The corrosion control treatment must continue indefinitely.

## **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.

- ♦ 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.

## **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, our way of life and our children's future. Please call our office if you have questions at (607) 652-6671, Village Hall.