

## *Annual Drinking Water Quality Report for 2018*

*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. Last year, your tap water met all State drinking water health standards. 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 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.

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 a 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 Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Nitrate (Filter Plant) (Kelly Well)	No No	3/02/2017 6/22/2017	0.21 0.91	mg/l mg/l	10	10 mg/l (MCL)	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Odor (Filter Plant)	No	4/3/2014	2.0	mg/l	n/a	3 mg/l (MCL)	Organic or Inorganic pollutants originating from municipal and industrial waste discharges; natural sources.
Barium (Filter Plant) Barium (Kelly Well)	No No	3/31/2016 3/31/2016	15.0 ug/l 17.4 ug/l	mg/l mg/l	2	2 mg/l (MCL)	Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits.
Sodium <sup>1</sup> (Filter Plant) Sodium 1 (Kelly Well)	No No	12/15/2016 8/7/2014	11.6 83.7	mg/l mg/l		n/a	Naturally occurring; road salt; water softeners; animal waste.
Lead <sup>2</sup> (distribution)	No	7/13/2016	90% - 0.005	ug/l	0	0.015 ug/l (MCL)	Corrosion of household plumbing systems; erosion of natural deposits.

<b>Copper<sup>3</sup></b> (distribution)	No	7/13/2016	90% - 0.77	mg/l	0	1.3 mg/l (MCL)	Corrosion of household plumbing systems; erosion of natural deposits; leeching from wood preservatives.
<b>Chloride</b> (Filter Plant)	No	12/15/2016	14.4	mg/l	n/a	250 mg/l	Naturally occurring or indicative of road salt contamination.
<b>Chloride</b> (Kelly Well)	No	8/7/2014	108				
<b>Manganese</b> (Kelly Well)	No	8/7/2014	0.068	mg/l	n/a	0.3 mg/l (MCL)	Naturally occurring or indicative of landfill contamination.
(Filter Plant)	No	12/15/2016	0.002	mg/l			
<b>Zinc</b> (Kelly Well)	No	8/18/2011	0.015	mg/l	n/a	5 mg/l (MCL)	Naturally occurring; mining waste.
(Filter Plant)	No	12/15/2016	0.005	mg/l			
<b>THM</b> (distribution)	No	Quarterly	46.8 avg.	ug/l	n/a	0.080 mg/l	By-product of drinking water chlorination needed to kill harmful organisms. TTHM's are formed when source water contains organic matter.
<b>HAA</b> (distribution)	No	Quarterly	13.4 avg	ug/l	n/a	0.060 mg/l	By-product of drinking water disinfection needed to kill harmful organisms.
<b>Gross Beta<sup>4</sup></b> by DOH	No	10/00	3.0+/-0.5	pCi/L	0	50 pCi/L	Decay of natural deposits and man-made emissions.
<b>Fluoride</b> (Filter Plant)	No	4/6/2017	0.75	mg/l	n/a	2.2 mg/l	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories.
(Kelly Well)	No	8/7/2014	0.70	mg/l			
<b>Sulfate</b> (Filter Plant)	No	12/15/2016	5.5	mg/l	n/a	250 mg/l	Naturally occurring.
(Kelly Well)	No	8/7/2014	6.2	mg/l			
<b>Iron</b> (Filter plant)	No	4/2/2015	0.005	mg/l	n/a	0.3 mg/l	Naturally occurring.
(Kelly Well)	No	8/7/2014	0.0790	mg/l	n/a	0.3 mg/l	
<b>Chromium</b> (Kelly Well)	No	6/03/08	0.024	mg/l	n/a	0.1 mg/l	Discharge from steel and pulp mills; Erosion of natural deposits.
<b>Radium 226</b> (Kelly Well)	No	quarterly avg. '08	0.02	pCi/L	n/a	5 pCi/L	Erosion of natural deposits.
(Filter Plant)	No	quarterly avg. '08	0.05	pCi/L			
<b>Radium 228</b> (Kelly Well)	No	quarterly avg. '08	1.63	pCi/L	n/a	5 pCi/L	Erosion of natural deposits.
(Filter Plant)	No	4/3/2014	1.50	pCi/L			
<b>Alpha</b> (Kelly Well)	No	quarterly avg. '08	0.26	pCi/L	n/a	15 pCi/L	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation.
(Filter Plant)	No	quarterly avg. '08	2.57	pCi/L			

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**Notes:**

1 – Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing 270 mg/l of sodium should not be used for drinking by people on a moderately restricted sodium diet.

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% percentile is equal to or greater than 90% of the lead values detected at your water system. In this case, ten samples were collected at your system and the 90% percentile value was 0.010 mg/l. The action level for lead was not exceeded at any of the sites tested.

3 – 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, ten samples were collected at your water system and the 90<sup>th</sup> percentile value was 0.89 mg/l. The action level for copper was not exceeded at some of the sites tested.

4 – The state considers 50 pCi/L to be the level of concern for beta particles. Some people who drink water containing beta emitters in excess of the MCL over many years many have an increased risk of getting cancer.

**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.

**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).

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

**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.

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

During 2018, our system was in compliance with all 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).

**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.