

*Annual Drinking Water Quality Report for 2018
Town of Stillwater, New York
881 Hudson Ave., Stillwater, New York 12170
(Public Water Supply ID# NY4530267 & NY4530219)*

INTRODUCTION

To comply with State regulations, the Town of Stillwater annually issues 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. In 2013, the Town consolidated former Water District #1, #3, and #4 into Water District #6. As of November 7, 2017, the Saratoga County Water Authority (SCWA) has been the water supply to Water District #6. Following connection to the SCWA, Water District #6 has been renamed as Stillwater Town SCWA and permitted under Public Water Supply ID# 4530267.

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. Last year, we conducted the State required testing to identify potential drinking water contaminants.

If you have any questions about this report or concerning your drinking water, please contact Mark Minick, Superintendent of Highways, Town of Stillwater, 1 Lansing Road, Stillwater, New York 12170, Phone: (518) 664-4611. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Town Board meetings. The meetings are held on first and third Thursday evenings of each month at 7:00 p.m. in the Town Government Complex, located at 881 Hudson Ave., Stillwater, NY 12170.

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 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.

STILLWATER TOWN SCWA WATER DISTRICT

As previously indicated, the Town formed Water District #6 in 2013 by consolidating former Water Districts #1, #3, and #4. Water District #6 was created in preparation of the district being supplied by the SCWA system following the completion of the water system connection project. The connection to the new supply was completed in November of 2017 and the district renamed as Stillwater Town SCWA.

STILLWATER TOWN SCWA WATER DISTRICT FACTS AND FIGURES

The Stillwater Town SCWA Water District system services customers through 942 service connections. This includes the connection on Cordero Boulevard servicing the Kings Isle Apartments (formerly Water District #6 Ext. #1). In 2018, Town of Stillwater Water District #6 users purchased a total of 63,622,000 gallons. The daily average amount of water used by Water District #6 customers in 2018 was approximately 174,300 gallons per day (GPD). The maximum day production of 459,000 gallons occurred on October 28, 2018. In 2018, water customers within Stillwater Town SCWA Water District paid \$2.276 per thousand gallons of water.

TOWN OF STILLWATER WATER DISTRICT #5

The Town of Stillwater Water District #5 does not have its own supply of raw water or a water treatment facility. Therefore, the Town is a secondary water purveyor and purchases its regular supply of drinking water from the Village of Stillwater (SCWA supply).

DISTRICT #5 FACTS AND FIGURES

The Town of Stillwater Water District #5 system serves approximately 40 customers through 12 service connections. In 2018, Water District #5 customers purchased a total of 725,160 gallons. The daily average amount of water used by Water District #5 customers in 2018 was approximately 1,987 gallons per day (GPD). In 2018, water customers within Water District #5 paid \$8.95 per thousand gallons of water.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

Stillwater Water District staff is responsible for testing the water in the distribution system. The water is tested for Total Coliform bacteria, lead and copper and disinfection byproducts (total trihalomethanes and haloacetic acids). Source water monitoring is completed by the Saratoga County Water Authority. The water sources are tested for inorganic compounds, volatile and semi volatile organic compounds, synthetic organic compounds, PCBs, nitrate, and radiologicals. The table presented below summarize the test results from the distribution system serving Water District #5. The Table of Detected Contaminants for the Saratoga County Water Authority is also included below.

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 New York State Department of Health (518) 793-3893.

Table of Detected Contaminants Stillwater WD #5 - NY4530219							
Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit of Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Inorganic Compounds							
Copper	No	9/21/2018	Avg.=0.152 ¹ Range=0.021-0.250 ²	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; and erosion of natural deposits.
Lead	No	9/21/2018	Avg.=0.0041 ¹ Range=ND-0.0044 ²	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
Disinfection Byproducts							
TTHMs	No	Quarterly 1 st , 2 nd , 3 rd and 4 th Quarter-2018	Avg.=52.9 ³ Range=27-37 ⁴	ug/L	N/A	MCL=80	By-product of drinking water chlorination.
HAA5s	Yes	Quarterly 1 st , 2 nd , 3 rd and 4 th Quarter-2018	Avg.=34.65 ³ Range=13.9-84.7 ⁴	ug/L	N/A	MCL=60	By-product of drinking water chlorination.

1. The level presented represents the 90th percentile of the sites tested. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system. During September 2018, 5 samples were collected for lead and copper analysis. The 90th percentile value, which is presented above, was the average of the two highest sample results. Lead and copper were not detected above the action level at any of the sites tested during the sampling round.
2. The levels presented are the range of the samples collected.
3. Compliance for TTHM and HAA5 MCLs is based on a running annual arithmetic average, computed quarterly, of quarterly averages of all samples. For example, the 1st Quarter 2018 Running Annual Average was calculated using data collected during the 1st Quarter 2018, the 4th Quarter 2017, the 3rd Quarter 2017, and the 2nd Quarter 2017. During 2018, the highest running annual average for TTHMs occurred during the 1st Quarter of 2018 and HAA5s occurred during the 4th Quarter of 2018. The running annual average for TTHMs and HAA5s did not exceed the MCL in 2018.
4. The levels presented are the range of TTHM and HAA5 sample results collected during 2018.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

Stillwater Water District staff is responsible for testing the water in the distribution system. The water is tested for Total Coliform bacteria, lead and copper and disinfection byproducts (total trihalomethanes and haloacetic acids). Source water monitoring is completed by the Saratoga County Water Authority. The water sources are tested for inorganic compounds, volatile and semi volatile organic compounds, synthetic organic compounds, PCBs, nitrate, and radiologicals. The table presented below summarize the test results for the Town Stillwater SCWA Water District. The Table of Detected Contaminants for the Saratoga County Water Authority is also included below.

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 New York State Department of Health (518) 793-3893.

Table of Detected Contaminants Stillwater Town SCWA - NY4530267							
Contaminant	Violation Yes/No	Date of Sample	Level Detected	Unit of Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contamination
Inorganic Compounds							
Copper	No	6/14/2018	Avg. = .138 ¹ Range = .014-.176 ²	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; and erosion of natural deposits.
		12/5/2018	Avg.=0.162 ¹ Range=0.009-0.147 ²				
Lead	No	6/14/2018	Avg. = .0081 ¹ Range = ND-0.100 ²	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits.
		12/5/2018	Avg.=0 ¹ Range=ND-0.0955 ²				
Disinfection Byproducts							
TTHMs	No	Quarterly 1 st , 2 nd , 3 rd and 4 th Quarter-2018	Avg.=66.6 ³ Range=26.1-40.4 ⁴	ug/L	N/A	MCL=80	By-product of drinking water chlorination.
HAA5s	Yes	Quarterly 1 st , 2 nd , 3 rd and 4 th Quarter-2018	Avg.=62.95 ³ Range=24-38 ⁴	ug/L	N/A	MCL=60	By-product of drinking water chlorination.

- The level presented represents the 90th percentile of the sites tested. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system. During June and December 2018, 20 samples were collected for lead and copper analysis. Lead and copper were not detected above the action level at any of the sites tested during the sampling round.
- The levels presented are the range of the samples collected.
- Compliance for TTHM and HAA5 MCLs is based on a running annual arithmetic average, computed quarterly, of quarterly averages of all samples. The running averages were calculated by taking the average of each Quarter and the Quarter(s) before. For example, 1st Quarter 2018 Running Annual Average was calculated using data collected during the 1st Quarter 2018, the 4th Quarter 2017, the 3rd Quarter 2017, and the 2nd Quarter 2017. During 2018, the highest running annual average for TTHMs occurred during the 1st Quarter of 2018 and HAA5s occurred during the 1st Quarter of 2018. The running annual average for TTHMs did not exceed the MCL in 2018. The running annual average for HAA5s exceeded the MCL during the 1st Quarter, due to the high levels during the 3rd and 4th Quarters of 2017.
- The levels presented are the range of TTHM and HAA5 sample results collected during 2018.

Disinfection Byproducts							
Haloacetic Acids - (mono-, di, and trichloroacetic acid, and mono- and di-bromoacetic acid, 3, 4,	No	LRAA#1 Range #1 LRAA#2 Range #2 LRAA#3 Range #3 LRAA#4 Range #4	48.4 (14.0-35.3) 28.3 (9.30-22.0) 45.7 (12.8-29.6) 41.5 (10.5-22.6)	ug/l	NIA	60	By-product of drinking water chlorination needed to kill harmful organisms.
Trihalomethanes-(Chloroform, Bromodichloromethane, dibromochloromethane, and bromoform) 2 3 4	No	LRAA#1 Range #1 LRAA#2 Range #2 LRAA#3 Range #3 LRAA#4 Range #4	52.1 (18.6-31.5) 35.2 (13.0-20.6) 45.9 (16.9-27.4) 47.4 (15.7-25.8)	ug/l	NIA	80	By product of drinking water chlorination needed to kill harmful organisms.

1. The level presented represents the 90th percentile of the samples collected.
 2. LRAA means Locational Running Annual Average. This is a calculation of all samples collected during the running 4 quarter sampling period and averaged for that specific location.
 3. Some people who drink water containing Haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. Some people who drink water containing Trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. The SCWA results are less than the MCL.
 4. Location #1= LFTC Tank Out; Location #2= Wilton Connection; Location #3= LFTC Tank In; Location #4= Ballston Connection.
- * 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. SCWA results are well below these levels.

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.

Running Annual Average (RAA): The arithmetic average of the average results for each of four consecutive quarters. For disinfection byproducts the MCL and RAA are rounded to the nearest tenth when the results are given in micrograms per liter.

Locational Running Annual Average (LRAA): The average of all samples collected from that particular sampling location during each monitoring period over the Running Four Quarter Period.

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

Secondary Standards: Established standards that are based on aesthetics and are not based on health risk. These contaminants may cause color, taste or odor problems but will not cause illness.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Non-Detects (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 NTU 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 to one trillion parts of liquid (parts per trillion - ppt).

Picograms per liter (pJ/l): Corresponds to one part per of liquid to one quadrillion parts of liquid (ppq).

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

Millirems per year (mrem/yr): A measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): A measure of the presence of asbestos fibers that are longer than 10 micrometers.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the tables, our system had one MCL violation in 2018 for (HAA5) in the Stillwater Town SCWA District. Notifications were submitted to all Town residents at the time of the violation.

Some studies suggest that people who drank chlorinated drinking water containing disinfection by-products (possibly including HAA5s) for long periods of time (e.g., 20 to 30 years) have an increased risk for certain health effects. These include an increased risk for cancer. However, how long and how frequently people actually drank the water as well as how much HAA5s the water contained is not known for certain. Therefore, the evidence from these studies is not strong enough to conclude that the observed increased risk for cancer is due to HAAs, other disinfection by-products, or some other factor. Studies of laboratory animals show that the individual HAA5s, dichloroacetic acid and trichloroacetic acid, can cause cancer following exposure to high levels over their lifetimes. Dichloroacetic acid and trichloroacetic acid are also known to cause other effects in laboratory animals after high levels of exposure, primarily on the liver, kidney, and nervous system and on their ability to bear healthy offspring. The effects reported in studies of laboratory animals occur at exposures much higher than exposures that could result through normal use of the water. The risks for adverse health effects from HAA5s in drinking water are small compared to the risk for illness from drinking inadequately disinfected water.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

The Town of Stillwater is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. We were not issued any monitoring and reporting violations in 2018 for any of the water districts.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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).

If present, elevated levels of 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 Town of Stillwater 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.

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

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 or at <http://www.epa.gov/safewater/lead>.

INFORMATION ON CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water and groundwater under the influence of surface water. Although filtration removes Cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. The Saratoga County Water Authority utilizes membrane filtration technology which removes these contaminants at higher rates than conventional water treatment technologies. During 2018 as part of our routine sampling, eight samples were collected of untreated Hudson River source water and analyzed for Cryptosporidium oocysts. Of these samples, no oocysts were detected. Therefore, our testing indicates there was no presence of Cryptosporidium in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, a gastrointestinal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their health care provider regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

INFORMATION ON GIARDIA

Giardia is a microbial pathogen present in varying concentrations in many surface waters and groundwater under the influence of surface water. Giardia is removed/inactivated through a combination of filtration and disinfection or by disinfection. During 2018 as part of our routine sampling, eight samples were collected of untreated Hudson River source water and analyzed for Giardia cysts.

Of these samples, seven samples showed a total of seventy-nine cysts and one sample showed no cysts. Therefore, our testing indicates the presence of Giardia in our source water. No results were detected in the treated water distributed to customers. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Giardia may cause giardiasis, an intestinal illness. The Saratoga County Water Authority utilizes membrane filtration technology which removes these contaminants at higher rates than conventional water treatment technologies. People exposed to Giardia may experience mild or severe diarrhea, or in some instances no symptoms at all. Fever is rarely present. Occasionally, some individuals will have chronic diarrhea over several weeks or a month, with significant weight loss. Giardiasis can be treated with anti-parasitic medication. Individuals with weakened immune systems should consult with their health care providers about what steps would best reduce their risks of becoming infected with Giardiasis. Individuals who think that they may have been exposed to Giardiasis should contact their health care providers immediately. The Giardia parasite is passed in the feces of an infected person or animal and may contaminate water or food. Person to person transmission may also occur in day care centers or other settings where hand washing practices are poor.

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 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. Please call our office if you have questions.