



VILLAGE OF SCARSDALE

Annual Drinking Water Quality Report for 2018

Village of Scarsdale Water Department

Village Hall, Scarsdale, New York

(Public Water Supply ID# 5903457)

INTRODUCTION

To comply with State regulations, the Village of Scarsdale Water Department 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 Stephen Johnson, Water Superintendent, at (914) 722-1138. We want you to be informed about your drinking water. If you want to learn more, please contact the Water Superintendent or information may be requested at any of the regularly scheduled Village Board meetings. Contact the Village Hall at (914) 722-1110 for meeting dates and times.

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.

Our source water is received from the New York City Water Supply System and then delivered to the public through a water distribution system comprising 100 miles of piping. The water is obtained through the Reeves Newsom Water Supply Station from the Kensico-Bronx 48" pipeline belonging to the Village of Scarsdale and the cities of Mount Vernon, White Plains and Yonkers, known as Westchester Water District No. 1. Water treatment includes the addition of fluoride, disinfection with chlorine and ultraviolet light used as a second level of disinfection. PH adjustment with caustic soda, and the addition of orthophosphate prior to distribution. Through the Ardsley Road Pumping Station, water is obtained from the New York City Catskill Aqueduct where the water treatment is similar to that of the supply from the Reeves Newsom Water Supply Station. The Ardsley Road station also has a back-up connection to the Suez water system. During 2018, our system did not experience any restriction of our water source. All of our water supply is from the NYC water supply system.

The NYS DOH has evaluated the susceptibility of water supplies statewide to potential contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraphs 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 Public Water Supply (PWS). This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards.

Scarsdale obtains water from the New York City water supply system. Water comes from the Catskill/Delaware watersheds east of the Hudson River. The New York City Department of Environmental Protection (DEP) implements a series of programs to evaluate and protect source water quality within these watersheds. Their efforts focus on three important program areas: the enforcement of strengthened Watershed Rules and Regulations; the acquisition and protection of watershed lands; and implementation partnership programs that target specific sources of pollution in the watersheds.

Due to these intensive efforts, the SWAP methodologies applied to the rest of the state were not applied for this PWS. Additional information on the water quality and protection efforts in these New York City watersheds can be found at NYCDEP's web site www.nyc.gov/html/dep/html/watershed_protection/index.shtml.

Specifically, Scarsdale obtains its water from the Catskill/Delaware watersheds east of the Hudson. The reservoirs in this mountainous rural area are relatively deep with little development along their shorelines. The main water quality concerns associated with land cover is agriculture, which can contribute microbial contaminants, pesticides, and algae producing nutrients. There are also some potential contamination concerns associated with residential lands and associated wastewater discharges. However, advanced treatments which reduce contaminants are in place for most of these discharges. There are also a number of other discrete facilities, such as landfills, chemical bulk storages, etc. that have the potential to impact local water quality, but large significant water quality problems associated with these facilities are unlikely due to the size of the watershed and surveillance and management practices.

FACTS AND FIGURES

The Scarsdale Water System is owned and operated by the Village of Scarsdale. Water Service is provided to the Village of Scarsdale, Eastchester Water District No. 1 and some homes in Mamaroneck, New Rochelle and Greenburgh. Our water system serves an estimated population of 20,608 through 5,800 service connections. The total water delivered in 2018 was 1.064 billion gallons. The daily average of water treated and pumped into the distribution system was 2.90 million gallons per day. Our highest single day was 6.59 million gallons.

The amount of water delivered to customers, (metered), was 906.92 million gallons. This leaves the total for unbilled water, (formerly known as unaccounted for water) at 157.13 million gallons, (14.8 % of the total amount delivered). Unbilled water is a result of many factors. Losses arise from ruptured water mains, hydrants struck by automobiles, service line leaks, fire protection and training, testing of water meters, use of unmetered water for construction purposes and the unmetered water used for flushing water mains. In 2018 water customers were charged \$3.20 per 100 cubic feet, (or \$4.28 per 1,000 gallons), for water used up to 5000 cu ft per quarter and \$9.60 per 100 cubic feet, (or \$12.83 per 1,000 gallons), for water used above 5000 cu ft. per quarter. The annual average water charge per user was \$1,013.40. During 2018 the Scarsdale Water Department personnel conducted 5100 service calls, replaced 318 meters, installed 624 remote radio meter reading units, repaired 59 water main or service leaks, made 31 service taps and replaced or repaired 38 fire hydrants.

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 coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, and synthetic organic compounds. Some of the compounds we analyzed for were detected in your drinking water; however, these contaminants were detected below the level allowed by the State. 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 the Westchester County Health Department at (914) 813-5000.

TABLE OF DETECTED CONTAMINANTS:

<u>Contaminant</u>	<u>Violation Yes/No</u>	<u>Date of Sample</u>	<u>Level Detected (Average) (Range)</u>	<u>Unit Measurement</u>	<u>MCLG</u>	<u>Regulatory Limit (MCL, TT or AL)</u>	<u>Likely Source of Contamination</u>
Inorganic Chemical Contaminants (Distribution System) Reeves Newsom Pump Station:							
Barium	No	01/18/18	16.1	ug/l	2000	2000	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chloride	No	01/18/18	12.4	mg/l	N/A	250	Naturally occurring or indicative of road salt Contamination.
Chlorine residual	No	Daily	1.18 0.76-1.56	mg/l	N/A	4	Water additive used to control microbes
Copper	No	06/18/18	8.0	ug/l	1300	1300	Corrosion of household plumbing system; Erosion of natural deposits; leaching wood Preservatives.
Fluoride	No	Daily	0.73 0.30-1.16	mg/l	N/A	2.2	Water Additive which promotes strong teeth
Cyanide	No	01/18/18	4.1	ug/l	200	200	Discharge from steel/metal factories; Discharge from Plastic and fertilizer factories.
Hexachlorocyclopentadiene NO	No	09/24/18	0.15	ug/l	N/A	5	Discharge from chemical factories
Manganese	No	01/18/18	27.3	ug/l	N/A	300	Naturally occurring; Indicative of landfill Contamination.
Nitrate	No	01/18/18	0.14	mg/l	10	10	Runoff from fertilizer use
Orthophosphates	No	01/18/18	1.11	mg/l	N/A	N/A	Water additive which reduces water corrosivity
Pentachlorophenol	No	09/24/18	0.06	ug/l	0	1	Wood preservative used to treat utility poles
PH	No	Daily	7.50 7.2-8.1	Units	N/A	N/A	
Sodium (5)	No	01/18/18	9.78	mg/l	See note 5	20	Naturally occurring; Road salt; Water softeners; Animal waste.
Sulfate, Potable	No	01/18/18	3.99	mg/l	N/A	250	Erosion of natural deposits
Turbidity (1)	No	Daily	0.71 0.38-1.36	NTU	N/A	5	Occurring in the soil Soil erosion & stream sediments
Zinc	No	01/18/18	3.3	ug/l	N/A	5000	Naturally occurring; Mining waste.

<u>Contaminant</u>	<u>Violation Yes/No</u>	<u>Date of Sample</u>	<u>Level Detected (Average) (Range)</u>	<u>Unit Measurement</u>	<u>MCLG</u>	<u>Regulatory Limit (MCL, TT or AL)</u>	<u>Likely Source of Contamination</u>
Inorganic Chemical Contaminants (Distribution System) Ardsley Road Pump Station:							
Barium	No	02/06/18	15.1	ug/l	2000	2000	Discharge of drilling waste; Discharge from metal Refineries; Erosion of natural deposits.
Chloride	No	02/06/18	11.5	mg/l	N/A	250	Naturally occurring; Indicative of road salt Contamination
Cyanide	No	02/06/18	22	ug/l	200	200	Discharge from steel/metal factories; Discharge from Plastic and fertilizer factories.
Chlorine residual	No	Daily	1.08 0.10-1.81	mg/l	N/A	4	Water additive used to control microbes
Copper	No	06/18/18	4.2	ug/l	1300	1300	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching wood Preservatives.
Fluoride	No	Daily	0.70 0.02-1.07	mg/l	N/A	2.2	Water Additive which promotes strong teeth
Manganese	No	02/06/18	17.0	ug/l	N/A	300	Naturally occurring; Indicative of landfill Contamination.
Nitrate	No	02/06/18	0.16	mg/l	10	10	Runoff from fertilizer use
Orthophosphates	No	10/15/18	0.88	mg/l	N/A	N/A	Water additive which reduces water corrosivity
PH	No	Daily	7.38 6.30-8.30	Units	N/A	N/A	
Sodium (5)	No	02/06/18	11.3	mg/l	See note 5	20	Naturally occurring; Road salt; Water softeners; Animal waste.
Turbidity (1)	No	Daily	0.78 0.50-1.42	NTU	N/A	5	Soil erosion & stream sediments

Lead & Copper Contaminant - System Wide Sampling – (every three years in the Distribution System):

Contaminant	Samples Taken	Violation Yes/No	Date of Sample	Level Detected (Average) (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Samples above AL (Range)	
Lead (3)	30	No	06-08/18	3.8 <LOQ – 8.6	ug/l	0	15	0	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (2)	30	No	06-08/18	277 2.7 - 382	ug/l	1300	1300	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching wood Preservatives

Organic Chemical Contaminants (Distribution System):

Total Trihalomethanes – Quarterly Stage 2 DBP Sampling (4)										
	No	Jan	Apr.	Jul.	Oct	42	ug/l	N/A	80	By-product of drinking water disinfection needed to kill harmful organisms. TTHMs are formed when Source water contains large amounts of organic matter.
	2018					28-54				
Haloacetic Acids – Quarterly & Stage 2 DBP Sampling (4)										
	No	Jan	Apr.	Jul.	Oct	45	ug/l	N/A	60	By-product of drinking water disinfection needed to kill harmful organisms.
	2018					28-50				

Radiological Contaminants (Source Water – Kensico Reservoir):

Gross Alpha Particle	No	10/15/13	0.92	pci/l	N/A	15	Decay of natural deposits & manmade emissions		
Gross Beta Particle	No	10/15/13	0.69	pci/l	N/A	50(6)	Erosion of natural deposits		
Combined Radium 226 and Radium 228	No	10/15/13	0.52	pci/l	N/A	5	Erosion of natural deposits		

Notes:

- 1 – Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants. Our highest single turbidity measurement in the distribution system for the year occurred on 03/03/18, (1.42 NTU). State regulations require that turbidity must always be below 5 NTU.
- 2 – The level presented represents the 90th percentile of the 30 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, thirty samples were collected at your water system and the 90th percentile value was the 27th value which was 0.277 mg/l. The action level for copper was not exceeded at any of the sites tested. The highest copper value was 0.382 mg/l.
- 3 – The level presented represents the 90th percentile of the 30 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 lead values detected at your water system. In this case, thirty samples were collected at your water system and the 90th percentile value was the 27th value which was 3.8 ug/l. the highest lead value was 8.6 ug/l.
- 4 – This level represents the average of 16 samples taken during the year. Highest locational average level was 44.75 ug/l with a range of 31.75 - 44.75 ug/l for Trihalomethanes. Highest locational average level was 44.00 ug/l with a range of 29.25 - 44.00 ug/l for Haloacetic Acids.
- 5 - Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.
- 6 – The State considers 50 pci/L a level of concern for beta particles.

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.

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.

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).

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

LOO: Limit of quantitation.

According to State regulations, we are required to routinely monitor drinking water for various contaminants. Drinking water is tested for inorganic and organic contaminants, trihalomethanes, and coliform bacteria. Contaminants detected are included in the Table of Detected Contaminants.

Contaminants we analyzed for but did not detect were:

E.coli bacteria, Arsenic, Chromium, Mercury, Selenium, Antimony, Beryllium, Thallium, Nitrite, Vanadium, Silver, Cobalt, Boron, Molybdenum, Lead, Bromoform, Dibromochloromethane, Vinyl Chloride, Benzene, Bromobenzene, Bromochloromethane, Bromomethane, N-butylbenzene, Sec-butylbenzene, Tert-butylbenzene, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloromethane, 2-chlorotoluene, 4-chlorotoluene, Dibromomethane, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, dichlorodifluoromethane, 1,1-dichloroethane, 1,2-dichloroethane,

1,1-dichloroethene, Cis-1,2-dichloroethene, Trans-1,2-dichloroethene, 1,2-dichloropropane, 1,3-dichloropropane, 2,2-dichloropropane, 1,1-dichloropropene, Cis-1,3-dichloropropene, Trans-1,3-dichloropropene, Ethylbenzene, Hexachlorobutadiene, Isopropylbenzene, P-isopropyltoluene, Methylene chloride, N-propylbenzene, Styrene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, Tetrachloroethene, Toluene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, Trichloroethene, Trichlorofluoromethane, 1,2,3-trichloropropane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, P & M-xylene, O-xylene, 2-butanone (MEK), Naphthalene, Methyl T-Butyl Ether, 4-Methyl-2-pentanone, 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane, Alachlor, Atrazine, Simazine, Hexachlorobenzene, Hexachlorocyclopentadiene, Benzo(A)pyrene, bis(2-Ethylhexyl)adipate, bis(2-Ethylhexyl)phthalate, Aldicarb Sulfoxide, Aldicarb Sulfone, Oxamyl, Methomyl, 3-Hydroxycarbofuran, Aldicarb, Carbofuran, Carbaryl, 2,4-D, 2,4,5-T, Silvex, Dalapon, Dicamba, Dinoseb, Pentachlorophenol, Picloram, Butachlor, Metolachlor, Metribuzin, DCPA di-mono-acids, Aldrin, Chlordane, Dieldrin, Endrin, Heptachlor, Heptachlor Epoxide, Lindane, Methoxychlor, PCB's, Propachlor, Toxaphene.

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.

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 Scarsdale 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>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

In 2018 our source water provider Westchester County Water District #1(WWD#1) received 3 Health Department violations.

On November 4, 2018 WWD#1 did not meet the treatment requirements for surface water systems with filtration avoidance. This constitutes noncompliance with Long Term 2 Enhanced Surface Water Treatment Rule and the New York Sanitary code (NYSSC), Part 5, Subpart 5-1, Section 5-1.30(b).

In November 2018 WWD#1 failed to preform one of the five required weekly total raw water fecal or total coliform samples at the Kensico source during the second week of November 2018 in violation of Part 5, Subpart 5-1, Sections 5-1.51(c) and 5-1.52 (Table 11A) of the New York State Sanitary Code (NYSSC)

In December 2018 WWD#1 failed to preform one of the five required weekly total raw water fecal or total coliform samples at the Kensico source during the fourth week of December 2018 in violation of Part 5, Subpart 5-1, Sections 5-1.51(c) and 5-1.52 (Table 11A) of the New York State Sanitary Code (NYSSC)

As of March 13, 2018 Westchester County Water District #1 was in compliance with the following violation: Westchester County Water District #1: USEPA Tier 2 Violation Notice Pursuant to United States Environmental Protection Agency requirements, the Village of Scarsdale and the cities of White Plains, and Yonkers, which receive drinking water through Westchester County Water District #1. The Village of Scarsdale Water supply is subject to the same water safety treatment protocols that have maintained drinking water in Scarsdale for many years, including appropriate chlorination to inactivate organisms such as giardia, bacteria, and viruses. Treatment protocols have improved over the years to include ultra-violet treatment in order to be even more effective, and to address organisms such as Cryptosporidium. Westchester County Water District #1 has implemented the necessary District-wide upgrades prescribed by The United States Environmental Protection Agency for secondary disinfection by use of ultra-violet light treatment at the Central Avenue UV Treatment Facility.

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, Westchester County Water District #1 collected 14 samples from their source water at Kensico Reservoir and analyzed them for Giardia cysts. Of these samples 0 were in violation of the EPA Surface Water Treatment Rules. 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. 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 handwashing practices are poor.

INFORMATION ON CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water and groundwater under the influence of surface water. During 2018, Westchester County Water District #1 collected 14 samples from their source water at Kensico Reservoir and analyzed them for cryptosporidium oocysts. Of these samples 0 were in violation of the EPA Surface Water Treatment Rules. 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.

Variations and Exemptions:

In accordance with the Federal Safe Drinking Water Act of 1986 and New York State requirements regarding the quality of potable water, we submitted a request for filtration avoidance of our raw water sources for both the Reeves Newsom Water Supply Station and the Ardsley Road Pumping Station. We received a variance from the New York State Department of Health in December 1991. This variance is still in effect.

The Village of Scarsdale was granted a Biofilm Variance from the New York State Department of Health on August 29, 1994. The variance recognizes that the maximum contaminant level cannot be used to determine the public health significance of coliform bacteria being detected in the distribution system when biofilms, and not contaminated water, is in the system.

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 ON FLUORIDE ADDITION

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. Fluoride is added to your water coming from our Catskill Aqueduct Source by the New York City DEP before it is delivered to us and at our Reeves Newsom pump station for source water delivered from Kensico Reservoir. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at a properly controlled level. To ensure that the fluoride supplement in your water provides optimal dental protection monitor fluoride levels on a daily basis to make sure fluoride is maintained at a target level of 0.7 mg/l. During 2018 monitoring showed that fluoride levels in your water at an average of 0.73 mg/l. None of the monitoring results showed fluoride at levels that approach the 2.2 mg/l MCL for fluoride.

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 firefighting 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.
- ◆ *Do not over water lawns and gardens. Water grass and plants only when they show signs of needing it.*
- ◆ *Check lawn sprinkler system for leaks regularly and check the clock settings to make sure you are not overwatering.*

System Improvements:

In 2018 the Scarsdale Water Department continued the program to upgrade our meter reading with the installation of radio units at residential and commercial buildings. The radio units allow for more accurate accounting of water used and allows the water department to read the meter without having to access the building. We continued the rehabilitation of the Ardsley Road water tank and that project is scheduled to be completed in the spring of 2019. In 2019 we also plan to address improvements to the Boniface water tank and water distribution system. In our continuing efforts to maintain a safe and dependable water supply it is necessary to make additional improvements in your water system. The costs of these improvements are reflected in the rate structure. Rate adjustments may be necessary in order to address these improvements.

Additional Information:

All of Scarsdale's source water came from the New York City water system. The City conducted numerous tests on the water prior to it reaching Scarsdale. The NYC Annual Water Quality Report can be viewed on www.nyc.gov/html/dep/html/drinking_water/wsstate.shtml or by contacting the Water Superintendent for the Village of Scarsdale.

Closing:

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources, which are the heart of our community and our way of life. Please call our office if you have questions at (914) 722-1138.