



**Quality First** 

Once again, we are pleased to present our annual water quality report covering all testing performed between January 1 and December 31, 2020. As in years past, we are committed to delivering the best-quality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education, while continuing to serve the needs of all our water users. Thank you for allowing us the opportunity to serve you and your family.

We encourage you to share your thoughts with us on the information contained in this report. After all, well-informed customers are our best allies.

# Where Does My Water Come From?

The Southington Water Works Department supplies its customers with a mixture of surface water and groundwater. These water sources include three reservoirs (Southington Reservoir #1, Southington Reservoir #2, and Southington Reservoir #3) on the Southington-Wolcott town line, and six groundwater wells located throughout Southington. Each of these sources is treated specifically based on the needs of the water before becoming available to the public through a vast network of underground pipelines that lie below the town.

#### **Source Water Assessment**

The State of Connecticut Department of Public Health has performed an assessment of our drinking water sources. The assessment indicated that our source waters had a susceptibility rating from Low to High. This rating does not imply that the water is contaminated; rather it represents the potential for contamination. The completed assessment report is available on the Drinking Water Division website at https://www.dir.ct.gov/dph/Water/SWAP/Community/CT1310011.pdf.

### **Water Conservation Tips**

You can play a role in conserving water and saving yourself money in the process 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. Here are a few tips:

- 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 an invisible toilet leak. Fix it and you can 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.

# Tap vs. Bottled

Thanks in part to aggressive marketing, the bottled water industry has successfully convinced us all that water purchased in bottles is a healthier alternative to tap water. However, according to a four-year study conducted by the Natural Resources Defense Council, bottled water is not necessarily cleaner or safer than most tap water. In fact, about 25 percent of bottled water is actually just bottled tap water (40 percent according to government estimates).

The Food and Drug Administration is responsible for regulating bottled water, but these rules allow for less rigorous testing and purity standards than those required by the U.S. EPA for community tap water. For instance, the high mineral content of some bottled waters makes them unsuitable for babies and young children. Further, the FDA completely exempts bottled water that's packaged and sold within the same state, which accounts for about 70 percent of all bottled water sold in the United States.

People spend 10,000 times more per gallon for bottled water than they typically do for tap water. If you get your recommended eight glasses a day from bottled water, you could spend up to \$1,400 annually. The same amount of tap water would cost about 49 cents. Even if you installed a filter device on your tap, your annual expenditure would be far less than what you'd pay for bottled water.

### **Source Water Protection**

The Southington Water Department owns and controls over 90 percent of its Watershed land and follows the best management practices for source water protection. This includes annual watershed inspections and an active forestry management program. The Southington Water Department has also implemented frequent patrols of watershed land and aquifer protection areas to reduce trespassing.

### **Substances That Could Be in Water**

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk.

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, in some cases, radioactive material, and substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife;

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban storm-water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, which may come from a variety of sources such as agriculture, urban storm-water runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and may also come from gas stations, urban storm-water runoff, and septic systems;

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

### **Important Health Information**

Sources of lead in drinking water include corrosion of household plumbing system and erosion of natural deposits. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Sources of copper in drinking water includes corrosion of household plumbing system, erosion of natural deposits, and leaching from wood preservatives. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from

their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

QUESTIONS? For more information about this report, or for any questions related to your drinking water, please call Albert T. Fiorillo, Assistant Superintendent, at (860) 628-5593.

### **Test Results**

Our water is monitored for many different kinds of substances on a very strict sampling schedule. And, the water we deliver must meet specific health standards. Here, we only show those substances that were detected in our water (a complete list of all our analytical results is available upon request). Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels.

The State recommends monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

We participated in the 4th stage of the U.S. EPA's Unregulated Contaminant Monitoring Rule (UCMR4) program by performing additional tests on our drinking water. UCMR4 sampling benefits the environment and public health by providing the U.S. EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if U.S. EPA needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data are available to the public, so please feel free to contact us if you are interested in obtaining that information. If you would like more information on the U.S. EPA's Unregulated Contaminants Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

REGULATED SUBSTANCES												
SUBSTANCE (UNIT OF MEASURE)		YEAR SAMPLE		MCL [MRDL]	MCLG [MRDLG]	AMO DETE		RANGE LOW-HIG		VIOLATION	TYPICAL SOURCE	
Alpha Emitters (pC	i/L)	2020	)	15	0	3.0	62	0.24-3.	62	No	Erosion of natural deposits	
Barium (ppm)	Barium (ppm) 2018			2	2	0.3	98	0.006–0.	398	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
Beta/Photon Emitte (pCi/L)	ers <sup>1</sup>	2018		50	0	0.6	574	0.358–0.	674	No	Decay of natural and man-made deposits	
Chlorine (ppm)	Chlorine (ppm)			[4]	[4]	1.0	05	0.3-1.0	)5	No	Water additive used to control microbes	
Combined Radium	(pCi/L)	2020	,	5	0		27	0.0718-2.27		No	Erosion of natural deposits	
Fluoride (ppm)	duoride (ppm) 2020			4	4	4 0.89		0-0.89	9	No	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories	
Haloacetic Acids [Haloacetic A	IAAs]	2020	)	60	NA	6.2	26	1.28–6.	26	No	By-product of drinking water disinfection	
Nitrate (ppm)		2020		10	10	3.4	41	1.29–3.	41	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	
TTHMs [Total Trihalomethanes] (ppb)		2020		80	NA	29.	.99	8.90–29	.99	No	By-product of drinking water disinfection	
Total Organic Carbon [TOC] <sup>2</sup> (ppm)		2020		TT	NA	5.9	98	2.12–5.	98	No	Naturally present in the environment	
Turbidity <sup>3</sup> (NTU)		2020		TT	NA	NA 0.4		0.02-0.49		No	Soil runoff	
<b>Turbidity</b> (lowest monthly percent of samples meeting limit)		2020		TT = 95% of samples meet the limit	NA	NA 100		NA		No	Soil runoff	
Uranium (ppb)		2020		30	0	1.25		ND-1.	25	No	Erosion of natural deposits	
Tap Water Samples Collected for Copper and Lead Analyses from Sample Sites throughout the Community												
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH %ILE)		OTAL	VIOLATI	VIOLATION TYPICAL SOURCE				
Copper (ppm)	2020	1.3	1.3	0.475	0/3	0/30		Cori	Corrosion of household plumbing systems; Erosion of natural deposits			
Lead (ppb)	2020	15 0 2.5		0/3	0/30			Lead services lines; Corrosion of household plumbing systems, including fittings and fixtures; Erosion of natural deposits				

SECONDARY SUBSTANCES							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	SMCL	MCLG	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Chloride (ppm)	2018	250	NA	195	19.1–195	No	Runoff/leaching from natural deposits
Sulfate (ppm)	2018	250	NA	33.7	ND-33.7	No	Runoff/leaching from natural deposits; Industrial wastes

GULATEL	

SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE				
Bromodichloromethane (ppb)	2020	4.08	ND-4.08	By-product of drinking water disinfection				
Chloroform (ppb)	2020	31.3	ND-31.3	By-product of drinking water disinfection				
Dibromochloromethane (ppb)	2020	0.81	ND-0.81	By-product of drinking water disinfection				
Metolachlor (ppm)	2020	0.00016	ND-0.00016	NA				
Nickel (ppm)	2018	0.0012	ND-0.0012	Nickel is a natural element of the earth's crust; therefore, small amounts are found in food, water, soil, and air				
Sodium <sup>4</sup> (ppm)	2018	61.6	11.7–61.6	Naturally occurring; Road salt				
Strontium 90 (pCi/L)	2018	-0.013	-0.52600.013	Nuclear fission				

- <sup>1</sup>The MCL for beta particles is 4 mrem/year. The U.S. EPA considers 50 pCi/L to be the level of concern for beta particles.
- <sup>2</sup>The value reported under Amount Detected for TOC is the lowest ratio between the percentage of TOC actually removed to the percentage of TOC required to be removed. A value of greater than one indicates that the water system is in compliance with TOC removal requirements. A value of less than one indicates a violation of the TOC removal requirements.
- <sup>3</sup>Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the filtration system.
- <sup>4</sup> If you have been placed on a sodium-restricted diet, it is best to inform your physician that our water contains up to 61.6 mg/l of sodium. Please visit our website at www. southingtonwater.org for more information.

### **Definitions**

**90th %ile:** The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): 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 contaminants.

NA: Not applicable.

**ND** (Not detected): Indicates that the substance was not found by laboratory analysis.

NTU (Nephelometric Turbidity Units): Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**pCi/L** (**picocuries per liter**): A measure of radioactivity.

**ppb** (parts per billion): One part substance per billion parts water (or micrograms per liter).

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter).

SMCL (Secondary Maximum Contaminant Level): These standards are developed to protect aesthetic qualities of drinking water and are not health based.

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

# **Community Participation**

We encourage public interest and participation in our community decisions affecting water. Regular meetings of the Southington Board of Water Commissioners occur once each month. The public is welcome to attend these meetings. A complete listing of meeting locations, dates, and times can be obtained by visiting our website at www.southingtonwater.org/, or by calling our office at (860) 628-5593.

# **Lead in Home Plumbing**

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. We are responsible for providing high-quality drinking water, but we 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 at (800) 426-4791 or at www.epa.gov/safewater/lead.