

Rochester Wins Gold for Best Tasting Water in New York State! **The Rochester Water Bureau** is pleased to provide you with this report on the quality of your drinking water. The report provides news on your water system and describes the source of your drinking water, its treatment and test results.



ROCHESTER WINS TITLE OF BEST TASTING WATER IN NEW YORK STATE!

At the New York State Fair this past August, Rochester brought home the **Gold Medal of Drinking Water- the Best Tasting Water in New York State.** Approximately 250 fairgoers selected Rochester's water from among other surface and ground water sources from all over New York State.

Each year the City of Rochester Water Bureau is proactive in protecting the watershed, ensuring the treatment practices are effective and that the transmission and distribution systems are structurally sound and able to provide you with safe and high quality drinking water. For 2013, the City has again met and/or exceeded all of the drinking water standards set by the Environmental Protection Agency (EPA) and the New York State Department of Health (NYSDOH). The City continues its commitment to quality and providing safe drinking water through its membership in the Partnership for Safe Water, now in our 12th year. The goal of this American Water Works Association (AWWA) and EPA voluntary program is to help water utilities optimize treatment strategies to provide superior water quality to consumers that far exceeds what current regulations require.

WHERE DOES MY WATER COME FROM?

Since 1876, Rochester residents have relied upon Hemlock and Canadice Lakes for their drinking water

supply. The City supplements its water supply with Lake Ontario water purchased from the Monroe County Water Authority (MCWA). This water is treated at MCWA's Shoremont Treatment Plant located on Dewey Avenue. During 2013, both systems were in compliance with applicable State drinking water requirements. More information can be found at www.MCWA.com.

The NYSDOH has evaluated the susceptibility of water supplies statewide for potential contamination under the Source Water Assessment Program (SWAP). Though their assessment of the Hemlock/Canadice Lake watershed identified several potential sources of contamination, none were particularly noteworthy. The City's extensive testing of these pristine lakes confirms that contamination from human activity is negligible. For more information on the state's Source Water Assessment Program, please call us at 428-6477.

HOW IS MY WATER TREATED AND DELIVERED?

The Hemlock and Shoremont treatment plants both employ similar treatment processes involving coagulation, filtration and disinfection. During coagulation, chemicals are added to untreated water. causing the natural particulates to clump together into larger particles called floc. The floc is removed by filtration and the water is then disinfected through addition of chlorine. Like many other cities in the U.S., your water is also fluoridated. According to the U.S. Centers for Disease Control (CDC), fluoride is very effective in preventing cavities when present in drinking water at an optimal range from 0.7 to 1.2 mg/l. In 2013, fluoride treatment was interrupted for seven days for system maintenance. For the remaining balance of the year with fluoride treatment, 1058 fluoride tests were run, all tests fell within safe limits and 96% of the test results fell within the CDC's optimum range.

Water treated at the Hemlock Filtration Plant flows to the city by gravity through three large pipelines that are more than

HOW CAN I SAVE MONEY ON WATER?

Simple changes in your daily routine can save you money on your water bill and also reduce stress on the environment. Always repair dripping and leaking faucets, toilets and garden hoses. Log on to http://www.dec.ny.gov/lands/5009.html for more conservation tips.

Substa	ınce	units	MCLG	MCL	Hemlock Average (range)	Ontario Average (range)		Meets EPA Standards
Bariun	1	mg/L	2	2	0.017	0.020 (0.018-0.02	Erosion of natural deposits 22)	Yes
Chloric	de	mg/L	250	250	33 (31-35)	24 (23-25)	Natural deposits, road salt, water treatment chemicals	Yes
Fluorio	le	mg/L	NA	2.2	0.70 (0.49-0.94)	0.80 (0.4-1.1)	Water treatment additive to promote dental health	Yes
Nitrate	•	mg/L	10	10	0.11 (0.01-0.21)	0.29 (0.20-0.34	Fertilizers, erosion of natural deposits, septic tank leachate	Yes
Sodiur	n	mg/L	NA	NA	19	11	Natural deposits, road salt, water treatment chemicals	NA
Tre							ess than 0.3 NTU. Range and lowe y and is used to gauge filtration pr	
Turbid Entry F		NTU	NA	TT	100% (0.04-0.15)	100% (0.03-0.07	Soil Runoff 7)	Yes
not pre	up of ba sent a h a "biof	icteria used lealth conce ilm varianc	I to indicate ern, but one e," (or excep	the general some species— <i>E.</i> otion to) the	sanitary cond <i>coli</i> can be p Total Coliforr	litions in a v athogenic. m MCL. Bio	ive are listed below. Total Coliform water system. Most species of this In 1993, the State Health Departm film is a layer of bacteria that can be variance does not apply to E. coli	group do ent granted pe found on
Total colifor	m	% Positive	0	5%	1.8% 0.60	0.09%	Naturally occurring	Yes
							from distribution locations are liste i (MRDL Goal) rather than an MCL	
Chlorii (entry		mg/L	4*	4*	.93 (0.63-1.31)	1.1 (0.8-1.5)	Required treatment chemical	Yes
Total T	HMs	μ g/L	NA	80		36 8-58)	By-product of chlorination	Yes
Haload Acids	etic	μg/L	NA	60		26 9-40)	By-product of chlorination	Yes
Lead and Copper –Test results for 90% of the samples must be less than an Action Level (AL), instead of an MCL. The 90th percentile and the range of results are listed below. Three out of 54 samples tested exceeded the lead AL.								
Lead		μg/L	0	15		9 D-28)	Corrosion of plumbing	Yes
Coppe	r	μg/L	1300	1300		93 -200)	Corrosion of plumbing	Yes
Definition of Terms								
μg/L		ams per liter— same as parts per billion (ppb); ands to one ounce in 7,812,500 gallons of water.					Milligrams per liter— same as parts per million (ppm); corresponds to one ounce in 7812.5 gallons of water.	
AL	Action Level— the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.					C	Not Detected— laboratory analysis indicates that the constituent is either absent or present below current limits of testing.	
MCL	•						•••	
MCLG	as close to the MCLGs as feasible. Maximum Contaminant Level Goal— the level of a contaminant in drinking water below which there is no known or expected health risk, with allowance for a margin of safety.							

100 years old. Along the way, water is sold wholesale to water districts in the towns/villages of Livonia, Lima, Richmond and also to the MCWA, which in turn supplies it to several communities. A large volume of treated water is stored in the City's three reservoirs. It is re-disinfected as it exits each reservoir and enters a complex grid (over 550 miles) of water mains that distribute the water to city customers.

Lake Ontario water is pumped into the city distribution system primarily in the area of Mt. Read Blvd. and West Ridge Rd. The volume of purchase varies from 0 to 26 million gallons per day (MGD). Some areas of the City may receive either Hemlock Lake or Lake Ontario water, or a mixture of both, depending on the season and the prevailing pattern of demand.

WHAT TYPES OF WATER SYSTEM IMPROVEMENTS WERE COMPLETED OR INITIATED IN 2013?

The City initiated construction on a \$6.5 million project to modernize approximately 10,000 feet of water transmission conduits along South Clinton Avenue in the Town of Brighton. The project is expected to be completed in the spring of 2014. Some other projects completed were: cleaned and cement-lined over 9.4 miles of aging cast-iron pipes; replaced 2.2 miles of water main; drained, cleaned and inspected Highland Park Reservoir; and performed preventative erosion control on Canadice Dam. The City also created a new pressure zone in the southwest area of the city to increase service pressures by 12-15 pounds per square inch.

2013 STATISTICS

The average production at the Hemlock Filtration Plant was 37 MGD. Consumption in the city averaged 20.9 MGD for its population of 210,000, which represents 57,842 metered accounts. Wholesale sales to upland communities, including MCWA, averaged 16.3 MGD. Lost water, the portion of water put into the system that cannot be accounted for by metered sales or other

HOW CAN I FIND OUT MORE ABOUT WATER BUREAU ACTIVITIES, FEES AND OTHER WATER RELATED ISSUES?

You may contact a customer service representative, 24 hours a day by calling **311**. People outside of the Rochester city limits may call **(585)428-5990**. For more about Water Bureau activities, fees and other water related issues, visit: **www.cityofrochester**. **gov/waterbureau**/



permitted uses, was 4.7 MGD. The Base Charge for water was \$3.31/1000 gallons.

SHOULD I BE CONCERNED ABOUT CHEMICAL CONTAMINANTS IN MY WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants and we have found no contaminants in our water at levels that raise concern. It is important to understand that all drinking water, including bottled water, contains small amounts of impurities. The mere presence of a contaminant does not mean there is a health risk. Some substances such as chlorine and fluoride are added to the water supply for health reasons. More information about contaminants and potential effects on your health can be obtained by calling the EPA Safe Drinking Water Hotline at 1-800-426-4791 or the Monroe County Department of Public Health (MCDPH) at 753-5057.

HOW DO CONTAMINANTS GET INTO THE WATER?

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and underground aquifers. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and in some cases, radioactive material. It can also pick up contaminants that result from the presence of animals and from human activities. These may include microbial and inorganic contaminants, pesticides and herbicides, organic chemical contaminants, disinfection byproducts and radioactive substances.

WHAT KINDS OF TESTS WERE DONE ON MY DRINKING WATER?

Your water was tested for more than 80 types of regulated microrganisms and chemical compounds in 2013. Samples were collected from all stages of the system, including the source (streams and lakes),

various steps in the treatment process, the storage reservoirs and from the customers' taps. All of our test results were in compliance with State and Federal drinking water requirements.

WERE THE PROTOZOANS CRYPTOSPORIDIUM OR GIARDIA FOUND IN OUR WATER?

No. All City and MCWA tests for these organisms in source waters and resevoirs were again negative in 2013. However, certain people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people such as those with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and some infants can be particularly at risk for infections. These people should seek advice about drinking water from their healthcare providers. EPA/CDC guidelines on appropriate means to lessen their risk of infection by *Cryptosporidium*, *Giardia* and other microbial contaminants are available by calling the Safe Drinking Water Hotline 1-800-426-4791 or MCDPH 753-5057.

IS THERE LEAD IN MY DRINKING WATER?

At-the-tap lead levels in the majority of Rochester households remain below allowable limits. However, the amount of lead present varies by the age and types of plumbing materials found in your home and varies depending on how long the water sits in your pipes before it is used. To minimize your lead intake from water, simply allow the tap to run for one or two minutes before use. Pregnant women, infants and young children are typically more vulnerable to the effects of lead than the general population. If you are concerned about elevated lead levels in water, call us at 428-6477. For more information about lead in drinking water, call the Safe Drinking Water Hotline at 1-800-426-4791, or visit: www.epa.gov/safewater/lead/index.html.

A complete list of results for all substances tested in 2013 is available from a link at www.cityofrochester.gov/waterquality/ or by calling 428-6477.



