

2013 CONSUMER CONFIDENCE REPORT

The Mass. Dept. of Environmental Protection (MADEP) and the US Environmental Protection Agency (EPA) require Water Departments to provide an *Annual Consumer Confidence Report*. The report communicates relevant information to customers about the quality of their drinking water and provides an update on water-related activities. The Watuppa Water Board and the Department of Community Utilities, under which the Water Division operates, present our Report for 2013.

Important statement on the availability of the 2013 CCR

This report contains important information about your drinking water. Please translate it or speak with someone who can, if needed. Copies of this report in Portuguese or French may be obtained at the Water Department's Offices on the 3rd floor at One Government Center or by calling 508-324-2330.

INDICAÇÃO IMPORTANTE NA DISPONIBILIDADE DO "CCR" DE 2013

Este relatório contém informação muito importante sobre sua água potável. Por favor traduza-o ou fale com alguém que-lhe compreende. As cópias deste relatório em Português podem ser obtidas no escritório do Departamento de Água no terceiro andar em Government Center, ou chamando 508-324-2330.

LES INFORMATION IMPORTANTES SUR LA DISPONIBILITE DU "CCR" de 2013

Ce rapport des informations important concernant la qualite de l'eau de votre communaute. Faite-le traduire, ou parlez-en avec un ami qui le comprend bien. Les photocopies du ce relation peut-etre obtenu de la office du Department de l'Eau, deuxieme etage, Government Center, ou, par telephoner a 508-324-2330.

Report of the Water Division, ADMINISTRATION Section: During 2013, the Division's capital plan was updated.

QUALITY: The following includes information about the source of your drinking water, what it contains, what other sources of water may contain and how it compared to Environmental Protection Agency (EPA) and Department of Environmental Protection (DEP) standards in 2013. We invite customer questions or comments. Call (508) 324-2725 for more information. The Watuppa Water Board welcomes public input. Please contact (508) 324-2330 for meeting times and locations, if you wish to provide input.

In 2013, thousands of water quality tests performed on samples taken from the City's source water (North Watuppa Pond), water produced in the treatment plant, and from consumer taps, generally found NO unacceptable levels of contaminants in the water supplied to you. In early March 2013, MA DEP notified the Fall River Water Department that there had been a failure to collect certain Water Quality Parameters (WQP) in 2012. This resulted in a Notice of Non-compliance/Return to Compliance (NON/RTC) letter, dated March 12, 2013, from MADEP. This NON/RTC acknowledged that the WQP samples had been submitted prior to the issuance of the NON and as such constituted a Return to Compliance. The missed sampling (for calcium and alkalinity) did not pose any threat to the public health, welfare, or safety.

The DEP issued the Fall River Water Department a NON related to a late filing of the 2012 CCR Certification Form, and on September 16, 2013, DEP issued the Fall River Water Department a CCR Violation Rescind Notice, as documentation of the filing was provided to them and as such, constituted a Return to Compliance.

While not cited by DEP in 2013, a marginal exceedence of the Total Trihalomethanes' (TTHMs) Locational Running Annual Average (LRAA) occurred during the third quarter at 631 Airport Road. The TTHM Maximum Concentration Limit (MCL) is 80 ppb, and the third quarter LRAA at 631 Airport Road was 84 ppb. At that time, a Public Notice was placed in the Fall River Herald News and posted on the City's website, as required by DEP.

DISTRIBUTION: During 2013, rehabilitation of the Hood St. water tank, reconstruction of the Chicago St. water tank, and modifications to the water main system near the 1873 pump station were completed. Also, rehabilitation of electric power components of the Water Treatment Plant began. In 2014, the Airport Rd. water tank and more water mains will be replaced. Finally, creation of a high-pressure zone in the Industrial Park will commence.

SOURCES: Drinking water for the City of Fall River is drawn from the North Watuppa Pond. When needed, water is pumped from Copicut Reservoir to the watershed of the North Watuppa, from which it flows to the North Watuppa Pond via brooks. The City has other water resources including the South Watuppa Pond, Terry Brook Pond, Sawdy, Stafford, and Devol Ponds, and Lake Noquochoke. Thus, Fall River has an abundant water supply.

Dams control most of these resources. The State Office of Dam Safety requires that the dams and associated control structures be maintained. In 2012 the gatehouse that controls the water flow between the North and South Watuppa Ponds was rehabilitated. In 2014 work will continue on the 4th St. Quequechan River control structure and work will start on repair of the culverts flowing under the railroad tracks near Battleship Cove.

There are no known significant sources of contamination to either the North Watuppa or Copicut Reservoirs. Watershed lands patrolled by the Fall River Environmental Police Unit protect both supplies.

An interceptor drain runs the length of the Rt. 24 along the North Watuppa Pond's westerly boundary to reduce potential sources of contamination, which may be associated with highway and other runoff. The Fall River Water Department has a Surface Water Assessment Program (SWAP) report. The report can be accessed on the MA-DEP website, or a copy can be requested using the contact information presented herein.

QUANTITY: We deliver about 10,000,000 gallons of water per day to residential, commercial, municipal, and industrial customers; and for fire protection. Of that, about 600,000 gallons per day are sold to Tiverton, Westport and Freetown.

TREATMENT: The Water Division owns and operates a drinking water treatment plant on the west shore of the North Watuppa Pond. Its maximum registered capacity is 26,000,000 gallons per day. Treatment processes carried out there include disinfection by chlorination, removal of suspended solids by flocculation/sedimentation, and filtration by sand and anthracite coal. Additionally, carbon dioxide and sodium hydroxide are added to reduce pipe corrosion. Fluoride has been added since 1972 to prevent tooth decay. All comply with Federal and/or State requirements. After treatment the water is pumped to the City's water distribution system, which includes 250 miles of water mains, 7 storage tanks, and more than 2,000 hydrants.

Important Definitions to help understand the information in this CCR

Maximum Contamination 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 Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfection Level (MRDL): The highest level of disinfectant (Chlorine, Chloramines and Chlorine Dioxide) allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDG): The level of a drinking water disinfectant (Chlorine, Chloramines, Chlorine Dioxide), 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.

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

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

Substances Found in Tap Water

Sources of drinking water (both tap and bottled) 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.

To insure that tap water is safe, Mass DEP and the US EPA enforce regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Massachusetts Department of Public Health establish limits for contaminants in bottled water that must provide the same protection for public health.

Contaminants that MAY be present in source water include:

Microbial Contaminants, such as viruses and bacteria that may come from wastewater treatment plants, septic systems, agricultural livestock activities, wildlife, or even unsanitary or improper procedures by the user.

Inorganic contaminants, such as salts and metals, that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

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

Pesticides and herbicides, which may come from a variety of sources such as agricultural activities, urban storm water runoff and residential uses.

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

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Call EPA's Safe Drinking Water Hotline at **800-426-4791** for more information about contaminants and potential health effects.

Additional information: Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer, undergoing chemotherapy, who have undergone organ transplants, have HIV/AIDS or other immune system disorders, some elderly and some infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infections by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at **800-426-4791**.

Specific Educational Statement on Lead

If present, elevated levels of lead can cause serious health problems, especially in pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Fall River Water Division, Department of Community Utilities, is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has not been run 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 or at <http://www.epa.gov/safewater/lead>.

Specific Educational Statement on Cross-Connections

A cross connection is a connection between a drinking water pipe and a potential source of contamination. Cross-connections often occur even in your own home. For instance, you hook up a water hose to a sprayer containing fertilizer, to spray on your lawn. If the water pressure drops (perhaps because of fire hydrant use to fight a fire), the fertilizer may be sucked back through the hose into the drinking water pipes. To guard against this, owners need to use an attachment called a **backflow prevention device**. The Fall River Water Department recommends the installation of backflow devices such as a "hose bib vacuum breaker" on all outside hose connections. The devices can be purchased at most hardware or plumbing supply stores.

This is a great way to protect the water in your home and the City's drinking water system. For additional information on these devices, please contact the Water Department @ 508-324-2330.

In addition to this common concern, there are other sources of cross-connections, and those are subject to Chapter 74, Section 256-258 of the Fall River City Ordinance. This Ordinance covers lawn sprinkler systems, medical devices connected to water, and industrial/commercial equipment, etc. The City employs a full-time inspector to track and test these devices.

Information regarding high water bill complaints:

Your water bill includes charges for water and sewer use, which are calculated by the amount of water that you use. Water use is based on readings obtained from your water meter. Leaks and excessive use of water will significantly increase that bill. To avoid high water/sewer charges, property owners should:

1. Make sure that plumbing is properly maintained. **A leaking toilet can waste 3,000 gallons per day.**
2. Periodically check the water meter when there is no water being used. If the red object near the center of the meter face is moving, then water is passing through the meter and there may be a leak.
3. Check your quarterly bill to monitor use. Consumption is listed as CCF on the bill. 1 CCF = 748 gallons.

Water that passes through the meter must be paid for; however, there is an abatement program for leaks.

"Fixed" charges are also levied for collecting and treating storm water, and for water meter servicing/billing.

A water quality table follows this narrative.

FALL RIVER 2013 CONSUMER CONFIDENCE REPORT DATA TABLE

<u>Contaminant Names</u>	<u>MCL</u>	<u>MCLG</u>	<u>Detection Limit</u>	<u>Fall River Water</u>	<u>Sample date</u>	<u>Violation (s)</u>	<u>Major Sources in Drinking Water</u>
Inorganic Contaminant, ppm							
Fluoride	4	4		0.9 - 1.1	daily	none	Water Additive, promotes healthy teeth.
Sodium	20 ppm*		0.5	19.8	26-Feb	none	Naturally present, and added during treatment process
Free Chlorine	4.0 MRDL	4		1.25 - 1.75	daily	none	Added during treatment process (to kill bacteria)
Barium	2.0	2	0.008	ND	26-Feb-13	none	Naturally present in source water
*per Office of Research Standards Guidelines							
Nitrate Contaminants, ppm							
Nitrate	10	10	0.03	ND	26-Feb	none	Fertilizer use, septic tanks, erosion from natural deposits
Organic Chemical Contaminants, ppb							
Trihalomethanes (THMs)	80	n/a	0.5	20.9 - 122.6	23-Aug	ONE	Reaction by-products of chlorine and organics. THMs and HAAs are sampled 4 times per year, as required.
Halacetic acids (HAAs)	60	n/a	0.5	23.3 - 51.5	2-Apr	none	
Lead, ppb, (ND = not detected)	15 (AL not MCL)	0	2	ND to 20.0	Last yr. 2012	No violation @ 90th percentile	Corrosion of household plumbing.
Copper, ppm (ND = not detected)	1.3 (AL not MCL)	0	0.02	ND to 0.70	Last yr. 2012	none	Corrosion of household plumbing.
Turbidity, NTU							
Turbidity, a good indicator of filtration effectiveness, measures cloudiness of water.	1.0	n/a		0.07	Daily	none	Suspended organic & inorganic particles from soil runoff
Microbial Contaminants							
Total coliform bacteria	5% of monthly samples	0		Compliant	Various	none	Naturally present in the environment and wastes.
Radioactive Contaminants							
Gross alpha particle emitters, pCu/l	15	0		Next Dep required sampling: 2021			Decay of natural and man made deposits
Radium 226 pCi/l	5	0		0.99	12/31/2012	none	Erosion of natural deposits.
Radium 228 pCi/l	5	0		0.02	12/31/2012	none	Common trace element in the earth's crust.
				0.04	12/31/2012	none	Common trace element in the earth's crust.
Volatile Organic Compounds							
Various limits	Various limits			Non-detect	27-Feb	none	Naturally present, and in man-made Chemicals
Total Organic Carbon, ppm	TT not MCL		0.5	2	4-May	none	Naturally present, and in man-made chemicals.
Perchlorate, ppb	2		0.012	<0.05	13-Aug	none	Man-made chemical in rocket propellants, explosives, tires and blasting agents.
Required Definitions							
AL	Action Level.	See "Important Definitions", above.			mrem/year	millirems per year, a measure of the amount of radiation	
MCL	Maximum Contaminant Level.	See above.			NTU	Nephelometric Turbidity Units: measures solid materials suspended in water	
MCLG	Maximum Contaminant Level Goal.	See above.			pCi/l	picoCuries per liter, a measure of radiation.	
MRDL	Maximum Residual Disinfectant Level.	See above.			ppm	parts per million (example: one pound of salt in one million pounds of water)	
MRDG	Maximum Residual Disinfectant Goal.	See above.			ppb	parts per billion, equals ppm multiplied by 1,000"	
TT	Treatment Technique: a required process intended to reduce the level of a contaminant in drinking water						