

This report contains very important information about your drinking water. Please translate it, or speak with someone who understands it.

Si usted desea obtener una copia de este reporte en españnol, llamenos al telefono 617-788-1190.

La relazione contiene importanti informazioni sulla qualità dell'acqua della Comunità. Tra-durlo o parlarne con un amico che lo comprenda.

O relatório contém informações importantes sobre a qualidade da água da comunidade. Traduza-o ou peça a alguém que o aiude a entendê-lo melhor.

Sprawozdanie zawlera ważne informacje na temat jakości wody w Twojej miejscowści. Poproś kogoś o przellumaczenie go lub porozmawiaj z osobą która je dobrze rozumie.

يحتوي هذا التقرير على معلومات هــامـة عـن نـوعيـة مــاء الشرب في منطقتك. يرجى ترجمته، أو ابحث التقرير مع صديق لك يفهم هذه

Im Bericht steht wichtige Information über die Qualität des Wassers Ihrer Gemeinschaft. Der Bericht soll übersetzt werden, oder sprechen Sie mit einem Freund, der ihn gut aversteht.

这份报告中有些重要的信息, 讲到关于您所在社区的水的品质。请您找人翻译一下,或者 请能看得懂这份报告的朋友给 你解释一下.

この資料には、あなたの飲料水 についての大切な情報が書かれ ています。内容をよく理解する ために、日本語に翻訳して読む か説明を受けてください。

इस रिपोर्ट में 'पीने के पानी' के विषय पर बहुत जरूरी जानकारी डी गई है। कृपमा इसका अनुवाद कीजिये, या किसी जानकार से इस बारे में पूछिये।

របាយការណ៍នេះមានពត៌មានសំខា ន់អំពីទីកបរិភោត ។ សូមបកប្រែ ឬពិគ្រោះជាមួយអ្នកដែលមើលយល់ របាយការណ៍នេះ ។

이 보고서에는 귀하가 거주하는 지역의 수질에 관한 중요한 정보 가 들어 있습니다. 이것을 변역 하거나 충분히 이해하시는 친구

Bản báo cáo có ghí những chỉ tiết quan trọng về phẩm chất nước trong cộng đồng quý vị. Hãy nhờ người thông địch, hoặc hời một người bạn biết rõ về vấn để nây.





This report is required under the Federal Safe Drinking Water Act. MWRA PWS ID# 6000000

Where To Go For Further Information

Massachusetts Water Resources Authority (MWRA)
Massachusetts Dept. of Environmental Protection
Department of Conservation and Recreation
Massachusetts Dept. of Public Health (DPH)
US Centers for Disease Control & Prevention (CDC)
List of State Certified Water Quality Testing Labs
Source Water Assessment and Protection Reports
Information on Water Conservation

www.mwra.com	617-242-5323
www.mass.gov/dep	617-292-5500
www.mass.gov/dcr/watersupply.htm	617-626-1250
www.mass.gov/dph	617-624-6000
www.cdc.gov	800-232-4636
www.mwra.com/04water/html/testinglabs.html	617-242-5323
www.mwra.com/sourcewater.htm	617-242-5323
www.mwra.com/conservation.html	617-242-SAVE

Public Meetings

MWRA Board of Directors MWRA Advisory Board Water Supply Citizens Advisory Committee www.mwra.com/02org/html/boardofdirectors.htm www.mwraadvisoryboard.com 617-788-1117 617-788-2050 www.mwra.com/02org/html/wscac.htm 413-213-0454

For a large print version, call 617-242-5323.





MWRA BOARD OF DIRECTORS

Richard K. Sullivan, Jr., Chairman

John J. Carroll, Vice-Chair

Joseph C. Foti, Secretary

Joel A. Barrera

Kevin L. Cotter

Paul E. Flanagan

Andrew M. Pappastergion

Brian R. Swett

Henry F. Vitale

John J. Walsh

Jennifer L. Wolowicz

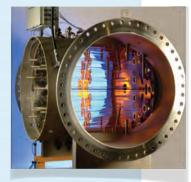
Dear Customer,

I am pleased to share with you the results of our water quality testing. MWRA takes hundreds of thousands of tests each year, and for 2013, we again met every federal and state drinking water standard. System-wide, we have been below the Lead Action Level for the past ten years. Please read your community's letter on page 4 for more information on your local water system.

The big news this year is that we have completed the start-up of a new ultraviolet (UV) disinfection facility at the John J. Carroll Water Treatment Plant in Marlborough, improving the quality of the drinking water we deliver to you.

UV light is essentially a more potent form of natural disinfection from sunlight. UV enables MWRA to inactivate the most difficult to kill pathogens - which could potentially be in the source water - without the use of additional chemicals and any associated disinfection by-products. The UV process and MWRA's high quality source water allow MWRA to meet new regulatory requirements cost effectively.

Since 2005, your water has been treated with ozone - produced by applying an electrical current to pure oxygen. Ozone has ensured strong protection against microbes and viruses, improves water clarity, and has actually made the water taste better. The addition of the UV to the ozone process provides additional assurance that any pathogens potentially in our reservoirs will be rendered harmless.



In addition, fluoride is added to promote dental health and the water chemistry is adjusted to reduce corrosion of lead and copper from home plumbing. Last, we add monochloramine, a mild and long-lasting disinfectant combining chlorine and ammonia to protect the water as it travels through miles of pipelines to your home.

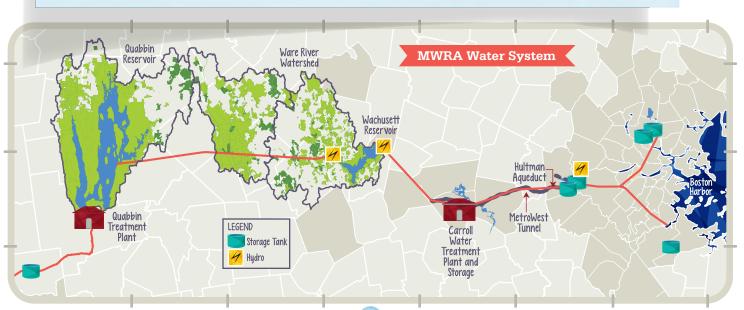
In a few short years, water treatment has gone from chlorine with its taste and odor issues, to ozone and now ultraviolet — with no additional chemicals and no disinfection by-products. Just better, safer water.

I hope you will take a few moments to read this report. We want you to have the same confidence we have in the water we deliver to over 2 million customers. Please contact us if you have any questions or comments about your water quality, or any of MWRA's programs.

9 6

Sincerely,

Frederick A. Laskey
Executive Director





Where Does Your Water Come From?

Your water comes from the Quabbin Reservoir, about 65 miles west of Boston, and the Wachusett Reservoir, about 35 miles west of Boston. These reservoirs supply wholesale water to local water departments in 51 communities. The two reservoirs combined supplied about 200 million gallons a day of high quality water to consumers in 2013.

The Quabbin and Wachusett watersheds are naturally protected with over 85% of the watersheds covered in forest and wetlands. To ensure safety, the streams and reservoirs are tested often and patrolled daily by the Department of Conservation and Recreation (DCR).

Rain and snow falling on the watersheds - protected land around the reservoirs - turn into streams that flow to the reservoirs. This water comes in contact with soil, rock, plants, and other material as it follows its natural path to the reservoirs. While this process helps to clean the water, it can also dissolve and carry very small amounts of material into the reservoir. Minerals from

water. But, water can also transport contaminants from human and animal activity. These can include bacteria and viruses - some of which can cause illness. The test data in this report show that these contaminants are not a problem in your reservoirs' watersheds.

The Department of Environmental Protection (DEP) has prepared a Source Water Assessment Program report for the Ouabbin and Wachusett Reservoirs. The DEP report commends DCR and MWRA on the existing source protection plans, and states that our "watershed protection programs are very successful and greatly reduce the actual risk of contamination." MWRA follows the report recommendations to maintain the pristine watershed areas using existing watershed plans.

Testing Your Water - Every Step of the Way

Test results show few contaminants are found in the reservoir water. The few that are found are in very small amounts, well below EPA's standards.

Turbidity (or cloudiness of the water) is one measure of overall water quality. All water must be below 5 NTU (Nephelometric Turbidity Units), and water can only be above 1 NTU if it does not interfere with effective disinfection. Typical levels at the Wachusett Reservoir are 0.3 NTU. In 2013, turbidity was below 1 NTU over 99.99% of the time, with the highest level at 1.17 NTU. This did not interfere with effective disinfection.

MWRA also tests reservoir water for pathogens such as fecal coliform, bacteria, viruses, and the parasites *Cryptosporidium* and *Giardia*. They can enter the water from animal or human waste. No *Cryptosporidium* or *Giardia* was found in the water in 2013.

Test Results - After Treatment

EPA and state regulations require many water quality tests after treatment to check the water you are drinking.

MWRA conducts hundreds of thousands of tests per year on over 120 contaminants (a complete list is available on www.mwra.com). Details about 2013 test results are in the table below. The bottom line is that water quality is excellent.

Sodium Facts
Sodium in water
contributes only a small
fraction of a person's overall
sodium intake (less than 10%).
MWRA tests for sodium monthly
and the highest level found was
35.9 mg/L (about 9 mg per 8 oz.
glass). This would be considered
Very Low Sodium by the Food
and Drug
Administration.

Water Quality Test Results for 2013

Compound	Units	(MCL) Highest Level Allowed	(We found) Detected Level-Average	Range of Detections	(MCLG) Ideal Goal	Violation	How it gets in the water
Barium	ppm	2	0.008	0.007-0.009	2	No	Common mineral in nature
Monochloramine	ppm	4-MRDL	1.8	0.01-4.0	4-MRDLG	No	Water disinfectant
Fluoride	ppm	4	1.04	0.37-1.1	4	No	Additive for dental health
Nitrate^	ppm	10	0.08	0.01-0.08	10	No	Atmospheric deposition
Nitrite^	ppm	1	0.005	ND-0.005	1	No	Byproduct of water disinfection
Total Trihalomethanes	ppb	80	10.1	3.0-13.9	ns	No	Byproduct of water disinfection
Haloacetic Acids-5	ppb	60	9.0	1.4-13.2	ns	No	Byproduct of water disinfection
Total Coliform	%	5%	0.5% (Nov)	ND-0.5%	0	No	Naturally present in environment

KEY: MCL=Maximum Contaminant Level. The highest level of a contaminant allowed in water. MCLs are set as close to the MCLGs as feasible using the best available technology. MCLG=Maximum Contaminant Level Goal. The level of 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 health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination. **ppm**=parts per million **ppb**=parts per billion **ns**=no standard As required by DEP, the maximum result is reported for nitrate and nitrite, not the average.



Tests in Community Pipes

MWRA and local water departments test 300 to 500 water samples each week for total coliform bacteria. Total coliform bacteria can come from the intestines of warm-blooded animals, or can be found in soil, plants, or other places. Most of the time, they are not harmful. However, their presence could signal that harmful bacteria from fecal waste may be there as well. The EPA requires that no more than 5% of the samples in a month may be positive. If a water sample does test positive, we run more specific tests for *E.coli*, which is a bacteria found in human and animal fecal waste and may cause illness. No E.coli was found in any MWRA community in 2013. If your community found any total coliform, it will be listed within the community letter on page 4.

Research for New Regulations

MWRA has been working with EPA and other researchers to define new national drinking water standards by testing for unregulated contaminants. To read more about this testing, and to see a listing of what was found, please visit www.mwra.com/UCMR/2013.html.

Drink Local and Be Green

Tap water is delivered straight to your home without trucking or plastic waste. Bottled water produces over 10,000 times the amount of greenhouse gases compared to tap water. Half of our energy needs for water and wastewater treatment are met with green power including hydro-energy, wind turbines, and solar panels.

Drink local! Drink tap water! Be green!



Drinking Water and People with Weakened Immune Systems

Some people may be more vulnerable to contaminants 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 about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (1-800-426-4791).

Contaminants in Bottled Water and Tap Water

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. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791) or MWRA. In order to ensure that tap water is safe to drink, the Massachusetts DEP and EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) and the Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Information About Cross Connections

Massachusetts DEP recommends the installation of backflow prevention devices for inside and outside hose connections to help protect the water in your home as well as the drinking water system in your town. For more information on cross connections, please call 617-242-5352 or visit www.mwra.com/crosscon.html.

Your Tap Water – Award Winning and Affordable!

In 2013, we won New England's Best-Tasting water award from the New England Water Works
Association and the National Sustainability Award from the American Council for an Energy-Efficient Economy. Great tasting, green, and also cheap! Tap water costs

less than a penny per gallon delivered straight to your home, while bottled water can cost from \$1 to \$8 a gallon.

Make the smart choice and drink tap water.





Town of Milton DEPARTMENT OF PUBLIC WORKS

Public Water Supply # 3189000

629 Randolph Avenue, Milton, MA 02186 Tel: 617-898-4900 Fax: 617-698-1290 www.townofmilton.org

Our Partnership:

The Milton Public Works Department is pleased to provide this annual water quality report to our customers in accordance with state and federal regulations. This report is intended to provide information to Milton residents about their water supply. Our town works in partnership with the Massachusetts Water Resources Authority (MWRA) to deliver quality drinking water for consumption, fire protection and other uses. Helping residents learn more about water quality and the effort that goes into maintaining the water system is part of this partnership. By providing this information, we also hope to encourage conservation and protection of this most precious resource.

Our Distribution System:

Our water comes from the Quabbin Reservoir in Central Massachusetts, through the Wachusett Reservoir and is transported in tunnels and pipes to three metered locations that supply the Town. There are 130 miles of water distribution pipes in Milton that on average deliver 2.5 million gallons per day to our customers. Demand for water fluctuates with higher volumes of water being used during summer months. During 2013, the Town of Milton consumed just over 880 million gallons of water. The greatest amount consumed in one day during the year was 3,837,000 occurring on July 19, 2013. Seventy percent of the pipes in the system are over fifty years old with approximately fifty percent unlined cast iron pipe. Unlined pipe allows tuberculation (rust) to grow on the inside surfaces of the pipe. While not a health problem, tuberculation can affect the ability of the pipe to carry flows for firefighting purposes and can affect the appearance of the water, such as yellow and brown water problems.

Flushing Program:

The Town completed the annual comprehensive flushing program expending over 3 million gallons of water in order to remove naturally occurring sediments, which if left in the water mains over time could cause taste, odor and turbidity problems to consumers.

Leak Detection:

In an effort to control our unaccounted water, the Town performs an annual water leak detection survey where correlation technology is used to find leaks in the water distribution system. This year's survey found many leaks which were promptly repaired by public works personnel.

Backflow Prevention:

The Town continues to enforce the DEP mandated cross connection control and prevention program to prevent contamination of the public water supply. The Certified Backflow Testers/Surveyors review and approve new devices prior to installation, inspect sites and test all devices. For more information please contact our personnel at 617-898-4871 or visit our website at www.townofmilton.org.

System Maintenance and Improvements:

The Town is constantly improving the system, replacing water mains when necessary. During 2013, the Town replaced unlined mains on Hoy Terrace, Murray Ave and Spafford Rd. In addition to these water main replacements, the Town made improvements on Central Ave., Antwerp St., Cedar Terrace, and Berlin Ave. Our department also repaired 21 water main breaks, 28 service line breaks and 17 leaking hydrants.

Miscellaneous Upgrades:

During 2013, the Department embarked on a capital improvement program. The program will focus on all major components of the water system. This will enable the department to prioritize future needs (meter replacement, pipe relining, and water tank replacement or rehabilitation). Milton needs to integrate their existing tools for infrastructure management (GIS, hydraulic Modeling, etc.) with long-term, risk-based distribution planning. This will provide better and more defensible answers to quantity and which type (material, age, etc.) of pipe should be replaced or rehabilitated now and in the future and the impact that different renewal scenarios will have on budgets and rates.

Lead and Copper:

The Town of Milton receives many questions about lead in tap water. The simplest answer is there is no lead in the water supplied to your home. Sources of lead in drinking water include corrosion of household plumbing systems such as brass fixtures and piping (which contain lead in the alloy) and lead solder. We are always concerned about the remote possibility of lead in tap water. The Town tests fifteen homes and two schools for evidence of lead once per year. The lead 90th percentile for Milton was 12.8 ppb (parts per billion), which is below the Action Level of 15 ppb. Please see page 5 of this report for more information.

The Town of Milton Public Works Department continues its commitment to providing the safest and highest water quality possible to our customers. For more information including meetings, contact the Public Works at 617-898-4900 or visit our website at www.townofmilton.org or like us on Facebook.

What You Need to Know about Lead in Tap Water

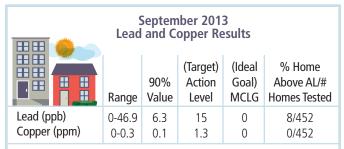
MWRA water is lead-free when it leaves the reservoirs. MWRA and local pipes that carry the water to your community are made mostly of iron and steel and do not add lead to the water. However, lead can get into tap water through pipes in your home, your lead service line, lead solder used in plumbing, and some brass fixtures. Corrosion or wearing away of lead-based materials can add lead to tap water, especially if water sits for a long time in the pipes before it is used.

In 1996, MWRA began adding sodium carbonate and carbon dioxide to adjust the water's pH and buffering capacity. This change has made the water less corrosive, thereby reducing the leaching of lead into drinking water. Lead levels found in sample tests of tap water have dropped by almost 90% since this treatment change.

MWRA Meets Lead Standard in 2013

Under EPA rules, each year MWRA and your local water department must test tap water in a sample of homes that are likely to have high lead levels. These are usually homes with lead service lines or lead solder. The EPA rule requires that 9 out of 10, or 90%, of the sampled homes must have lead levels below the Action Level of 15 parts per billion (ppb).

All 18 sampling rounds over the past ten years have been below the EPA standard. Results for the 452 samples taken in September 2013 are shown in the table. 9 out of 10 houses were below 6.3 ppb, which is below the Action Level of 15 ppb. Only two communities had more than one home test above the Action Level for lead. If you live in either of these communities, your town letter on page 4 will provide you with more information.



KEY: AL=Action Level-The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Definition of MCLG available on page 2.

Important Information from EPA about Lead

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. MWRA is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If 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 1-800-426-4791 or www.epa.gov/safewater/lead.



How do I reduce my exposure to lead in drinking water?

Run the tap until after the water feels cold. To save water, fill a pitcher with fresh water and place in the refrigerator for future use. Never use hot water from the faucet for drinking or cooking, especially when making baby formula or other food for infants.

Ask your local water department if there are lead service lines leading to your home.

Check your plumbing fixtures to see if they are lead-free. Read the labels closely.

Test your tap water.
Call the MWRA
Drinking Water
Hotline (617-2425323) or visit our
website for more tips
and a list of DEP
certified labs that
can test your water.

Be careful of places you may find lead in or near your home. Paint, soil, dust and some pottery may contain lead. Call the Department of Public Health at 1-800-532-9571 or EPA at 1-800-424-LEAD for health information.