

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

Im Bericht steht wichtige Information über die Qualität des Wassers Ihrer Gemeinschaft. Der Bericht soll übersetz werden, oder sprechen Sie mit

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

报人中看对重量的信息 DITTO NAMES 。 場合者分類されおき的別表は

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

この資料では、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、日本語に概訳して読む か説明を受けてください

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

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Sprawozcanie zawlera ważne informacje na temat jakości wody w Twoje, miejscowsci. Popros kogos o przeturnaczen e go lub porozmawiaj z osobą która e dobrze rozumie. เกษากายดีเราะบรกล้ยประการ ទំពស់ទីសមរិយាស ។ សហសម្រា ឬកំណ្ឌោ សមុខល្អកដែលដែលចេល៊ី เพยเสมณ์เล เ

مشوى هذا التقرير عثى محلومات فنامنة عنن تنوعينة مناه الخبربافي للتشريس منع مسيق لك يشهم هذه المعلومات جيدأت

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Massachusetts Water Resources Authority and Your Local Water Department

This report is required under the Federal Safe Drinking Water Act Public Law 104-182, Section 1414(c)(4) MWRA PWS ID# 6000000

WHERE TO GO FOR FURTHER INFORMATION

Massachusetts Water Resources Authority (MWRA) | www.mwra.com 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

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 617-242-5323 www.mwra.com/sourcewater.htm www.mwra.com/conservation.html 617-242-SAVE

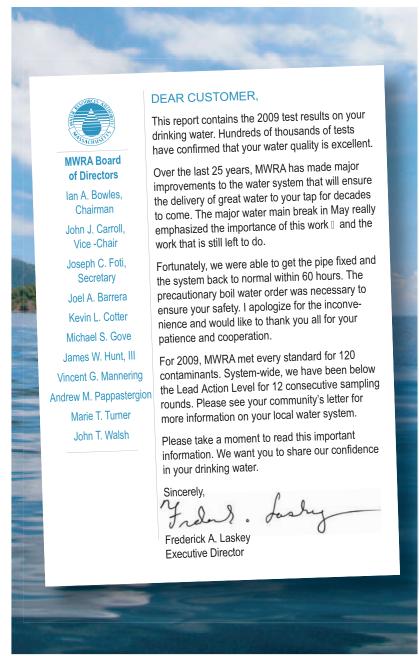
PUBLIC MEETINGS

MWRA Board of Directors MWRA Advisory Board Water Supply Citizens Advisory Committee

www.mwra.com/02org/html/boardofdirectors.htm 617-788-1117 www.mwraadvisoryboard.com 617-742-7561 www.mwra.com/02org/html/wscac.htm 413-586-8861

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





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 194 million gallons a day of high quality water to consumers in 2009. Your water also comes from local water supplies. Please see page 4 for more information.

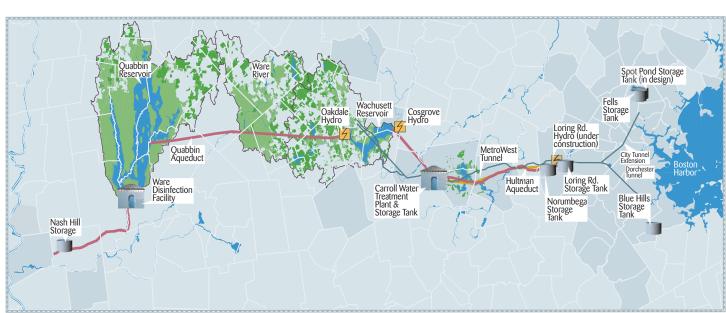
Quabbin and Wachusett watersheds are protected naturally with over 85% of the watersheds covered in forest and wetlands. To ensure safety, the streams and the reservoirs are tested often and patrolled daily by the Department of Conservation and Recreation (DCR). Rain and snow falling on the watersheds - 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 soil and rock do not typically cause problems in the water. But, water can also transport contaminants from human and animal activity. These can include bacteria, viruses, and fertilizers - some of which can cause illness. The test data in this report show that these contaminants are not a problem in your reservoir's watersheds.

The Department of Environmental Protection (DEP) has prepared a Source Water Assessment Program report for the Quabbin and Wachusett Reservoirs. The DEP report commends DCR and MWRA on the existing source protection plans, and states that our <code>lwatershed</code> protection programs are very successful and greatly reduce the actual

risk of contamination. The report recommends that we maintain present watershed plans and continue to work with the residents, farmers, and other interested parties to maintain the pristine watershed areas. Your water also comes from local supplies that have a separate report.

As water travels eastward through tunnels from the Quabbin and Wachusett Reservoirs, clean hydroelectric energy is produced. The electricity generated is used to reduce MWRA's energy demands.







From the Reservoir to Your Home

WATER TREATMENT

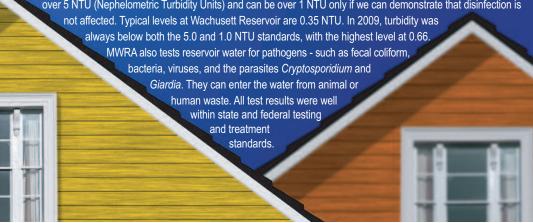
Your water is treated at the John J. Carroll Water Treatment Plant in Marlborough. The first treatment step is disinfection of reservoir water with ozone to kill any pathogens (germs) that may be present in the water. Fluoride is then added to reduce cavities. Next, the water chemistry is adjusted to reduce corrosion of lead and copper from home plumbing. Last, we add mono-chloramine, a mild and long-lasting disinfectant which protects the water while it is in the local pipelines. Your local water supply may have different treatment. Please see page 4 for more information.

MWRA'S IMPROVEMENTS TO WATER SUPPLY

2010 marks the 25th anniversary of the MWRA. In that time, MWRA and our community partners have made improvements to the entire water system: from the the watersheds, to the aqueducts and tunnels, to treatment plants and MWRA and local pipelines. These are the largest investments in the water system since the 1930s. MWRA and our community partners continue to make the necessary investments to maintain and upgrade our facilities. For instance in 2009, MWRA completed the Blue Hills covered storage tank in Quincy.

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 water) is one measure of overall water quality. It should never be over 5 NTU (Nephelometric Turbidity Units) and can be over 1 NTU only if we can demonstrate that disinfection is



♦ What is Ozone?

Ozone consists of three atoms of oxygen. It is created by applying an electrical current to pure oxygen in a specially designed chamber. Ozone provides better disinfection than chlorine alone, especially against *Cryptosporidium* and other hard to kill germs. It also reduces the amount of potentially harmful chlorine byproducts.

Information About Cross Connections



Massachusetts
DEP recommends the installation of backflow prevention devices for inside and outside hose connections. For

more information on cross connections and how to help protect the water in your home as well as the drinking water system in your town, please call 617-242-5323 or visit www.mwra.com/crosscon.html.

FACTS ABOUT SODIUM

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 37.4 mg/L (about 9 mg per 8 oz. glass). This would be considered VERY LOW SODIUM by the Food and Drug Administration (FDA).

Test Results - After Treatment

EPA and State regulations require many water quality tests after treatment to check the water you are drinking. MWRA conducts tens of thousands of tests per year on over 120 contaminants (a complete list is at www.mwra.com). For results on your local water supply, please see page 4.

The only contaminants found are listed below, and all levels met EPA's standards. The bottom line is that the water quality is excellent.



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	0.01	0.009-0.011	2	No	Common mineral in nature
MONO-CHLORAMINE	ppm	4-MRDL	1.9	0-3.6	4-MRDLG	No	Water disinfectant
FLUORIDE	ppm	4	1.02	0.36-1.2	4	No	Additive for dental health
NITRATE^	ppm	10	0.14	0.06-0.14	10	No	Atmospheric deposition
TOTAL TRIHALOMETHANES	ppb	80	12.2	1.0-35.4	ns	No	Byproducts of water disinfection
HALOACETIC ACIDS-5	ppb	60	12.4	0-35.4	ns	No	Byproducts of water disinfection

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, not the average.



City of Woburn, Massachusetts Department of Public Works 50 No. Warren Street, Woburn, MA 01801

Tel. (781) 897-5990 • Fax. (781) 897-5989

Thomas Quinn, Superintendent

Dear Water Customer:

The Woburn Department of Public Works, in conjunction with the Massachusetts Water Resources Authority (MWRA) supplies potable water to approximately 12,500 residential and commercial customers. This report provides information on the quality of water supplied through the municipal well field at Horn Pond. MWRA water quality information is contained elsewhere in this report. The following water quality data contains results based on annual testing performed in 2009.

WATER QUALITY DATA

Contaminant	Average sample	Range detected	MCL	MCLG	Violation (Y/N) Possible Sources of contamination
Arsenic (ppb)	0.12	1.06 – 1.17	10	10	No	Erosion of natural deposits
Barium (ppm)	0.023	0.013 - 0.035	2	2	No	Common mineral in nature
Chromium (ppb)	0.055	<1 – 1.05	100	100	No	Erosion of natural deposits
Fluoride (ppm)	1.0	0.9 - 1.2	4	4	No	Water additive which promotes strong teeth
Nitrate (ppm)	0.85*	<0.005 - 0.85	10	10	No	Atmospheric deposition
Nitrite (ppm)	0.009*	0.007 - 0.009	1	1	No	Byproduct of water disinfection
Sodium (ppm)	83	67-140	NA	NA	No	Water treatment, common mineral in nature

^{*} As required by DEP, the maximum result is reported for nitrate and nitrite.

In addition to above, the City obtains and tests samples from each Well for volatile and synthetic organic compounds, inorganic compounds and bacteria. Within the distribution system, twenty-one separate locations are tested weekly or quarterly for bacteria, trihalomethanes, haloacetic acids, iron, manganese, lead and copper. Other sites are tested periodically. All testing sites are scheduled and approved by the Massachusetts Department of Environmental Protection.

Lead and Copper

	90% Value	(Target) Action Level	(Ideal Goal) MCLG	# of homes that failed AL/# of homes tested
Lead	9.1 ppb	15 ppb	0	0 of 35
Copper	0.155 mg/l	1.3 mg/l	0	0 of 35

For further information on lead, including health language from EPA, please see page 5.

DISINFECTANT BY-PRODUCT RULE

Compound	Unit	MCL	MCLG	Running Annual Avg.	Range	Source	Violation
Total Trihalomethanes	ppb	80	0	24.4	0.7 to 51.5	Byproduct of water disinfection Byproduct of water disinfection	No
Haloacetic Acids 5	ppb	60	0	5.8	ND to 12.2		No

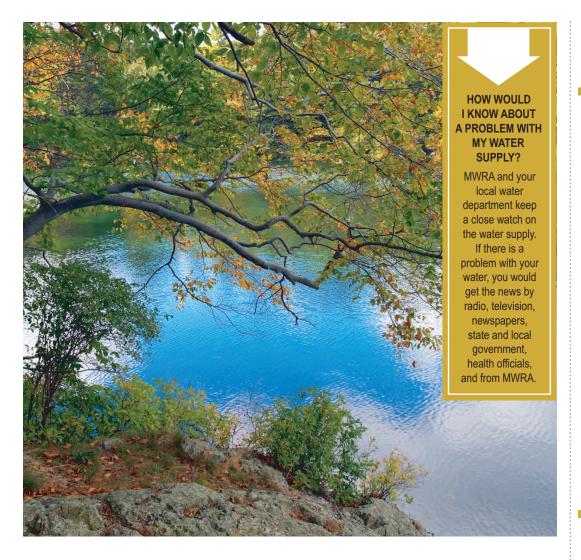
Definitions of terms and abbreviations (e.g., MCL and MCLG, etc.) are found on the attached MWRA Annual Water Quality Report. The MWRA Report also includes other "required" U.S. EPA information for consumers.

DISTRIBUTION

The Department of Public Works is continuing an aggressive policy of system maintenance and implementation of a major capital improvements program. These include the following programs, which are under design or being constructed.

- Continued intense City-wide valve maintenance and hydrant flushing program to remove sediments from the system and improve the operation of valves and hydrants.
- The Horn Pond Water Treatment Plant filtration upgrade for the removal of iron and manganese within the city wells is under construction.
- Replacement of the Rag Rock Storage Tank on Hillside Avenue is under construction.
- Completion of the cleaning and relining of the following water mains to improve transmission capacity and water quality: Nashua Street, Porter Street,
 Warren Road, Lawrence Street, Sturgis Street, Water Street, Beacon Street, Evan Street, Reed Street, Morse Street, and Foster Street.
- Proposed cleaning and relining of the following water mains: Campbell St., Nashua St., Second St., Union St., Walnut St., Wade Ave., Myrtle St., Summer St., Edgehill Lane, Bennett St., Church Ave., Salem St and Pine St. and Court St.
- New 12" water mains on Beach Street, Lowell St., Sendick Rd and new 8" water mains on School St., Mostika Rd., Van Norden St, Dickson Rd., Rodgers Ave. and Jefferson Ave.
- Installation of a new water main on Willow (12") and Locust (8") Streets.

The City of Woburn is committed to providing clean and safe water to its residents and will continue to implement improvements that will allow us to meet this goal now and in the future.



Tests in Community Pipes

MWRA and local water departments test 300 to 500 water samples each week for total coliform bacteria. These 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 total coliform samples in a month can 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 waste and can cause illness.

RESEARCH FOR NEW REGULATIONS

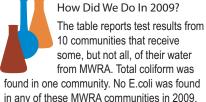
MWRA has been working with EPA and other researchers to define new national drinking water standards by testing for unregulated contaminants. In order to better understand the water supply and treated water, MWRA has voluntarily been testing for Cryptosporidium and Giardia.

Ongoing Reasearch For New Regulations					
Test Measurement Units 2009 Averag					
Cryptosporidium	oocysts per 100L	0.01^			
Giardia	cysts per 100L	0.17			
NDMA	ng/L	0.54*			
KEV: nall =nanograms per liter (parts per trillion) AProposed treatment					

KEY: ng/L=nanograms per liter (parts per trillion) ^Proposed treatment threshold is 1 oocyst per 100 liters. *The DEP "guidance value" is 10 ng/L

Total Coliform Results

Community	Highest % of positive samples and month	Violation of EPA's 5% limit
Needham	2.3% (June)	No
MWRA	0.7% (Sept.)	No



in any of these MWRA communities in 2009. No communities exceeded the EPA standard.



Important Information from EPA and DEP

Drinking Water and People with Weakened Immune **Systems**

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 can be particulary 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 microbial contaminants are available from the 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.



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 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.

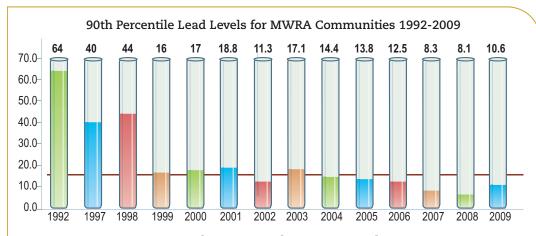
In 1996, MWRA began adding sodium carbonate and carbon dioxide to adjust the water's pH and buffering capacity. This change has made the water less corrosive, thereby reducing the leaching of lead into drinking water. Lead levels found in sample tests of tap water have dropped by over 80 percent since this treatment change.

MWRA MEETS LEAD STANDARD IN 2009

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).

The following results are for the MWRA system. For lead and copper results for your local water supply, please see page 4. All 12 sampling rounds over the past six years have been below the EPA standard. Results for 453 samples taken in September 2009 are shown in the table. 9 of 10 houses were below 10.6 ppb, which is below the Action Level of 15 ppb. Some individual communities had more than one home test above the Action Level for lead. If you live in one of these communities, your town letter will provide you with more information.



September 2009 Lead & Copper Results

	Range	90% Value	(Target) Action Level	(Ideal Goal) MCLG	# Homes Above AL/ # Homes Tested
Lead	1.2-78.8 ppb	10.6 ppb	15 ppb	0	23/453
Copper	0.003-0.93 ppm	0.14 ppm	1.3 ppm	0	0/453

AL=Action Level

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Definition for MCLG available on page 4.



What Can I Do To Reduce 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 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 pipes leading to your home.

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

Test your tap water. Contact MWRA at 617-242-5323 or www.mwra.com for more tips and a list of certified labs.



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.

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 at www.epa.gov/safewater/lead.







Water Conservation

Wasting water can add up quickly. On average, each person uses about 65 gallons of water each day. More efficient water use can reduce the impact on the water supply and on your wallet. Here are some ways to make your home and your habits more water efficient

The Inch Rule for Saving Water Outdoors

Most lawn, shrubs, vegetables, and flowers need just one inch of water per week. If there has been an inch of rainfall during the week, you don't have to water at all. Overwatering can actually weaken your lawn by encouraging shallow roots that are less tolerant of dry periods and more likely to be damaged by insects.



Follow Outdoor Water Saving Ground Rules



How to Find and Fix Leaks

Dripping, trickling, or leaking faucets, showerheads and toilets can waste up to several hundred gallons of water a week, depending on the size of the leaks.

Worn-out washers are the main cause of leaks in faucets and showerheads. A new washer generally costs about 25 cents.



That trickling sound you hear in the bathroom could be a leaky toilet, but sometimes toilets leak silently. TRY THIS: Crush a dye tablet and carefully empty the contents into the center of the toilet tank and allow it to dissolve. Wait about 8 to 9 minutes. Inspect the toilet bowl for signs of dye indicating a leak.

If the dye has appeared in the bowl, your flapper or flush valve may need to be replaced. Parts are inexpensive and fairly easy to replace. If no dye has appeared in the 8 to 9 minutes, you probably don't have a leak.

Install a Low-Flow Shower-head and Faucet Aerator

Some showerheads may still use over 5 gallons per minute. A low-flow showerhead uses 2.5 gallons less and can save you over 20 gallons per 10-minute shower. In one year, that's over 7,000 gallons. Faucets can use 2 to 7 gallons of water per minute – a low-flow aerator can reduce the flow by about 25%.

For more water saving ideas or devices, call 617-242-SAVE or go to www.mwra.com.

