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Dear Customer,

On behalf of the over 1000 women and men who work every day to provide you with excellent drinking water, I am happy to present this year's annual water quality report. You can be sure that the reliability and safety of your drinking water is our top priority.

This report provides you with the results of our drinking water testing for 2023. Our staff conduct hundreds of thousands of tests each year to ensure that your water is safe. Our state-of-the-art surveillance system monitors your water every step of the way from the reservoir all the way to your kitchen tap. Once again, MWRA met every federal and state standard and the quality of your drinking water is excellent.

Every day, we see news stories about PFAS—or 'forever chemicals'—in drinking water. Because our source water is so well protected, the water we deliver to you meets the current state, as well as the new federal EPA standards issued in April, with levels so low they cannot be quantified.

MWRA continues to be a leader in working to reduce the risk of lead in drinking water. System-wide, we remain below the Lead Action Level. Since 2016, we have provided \$41 million in zero-interest loans to 17 communities for full lead service line removals. Please read your community's letter on page 7 for more information on your local water system, and consider replacing your lead service line if your home has one.

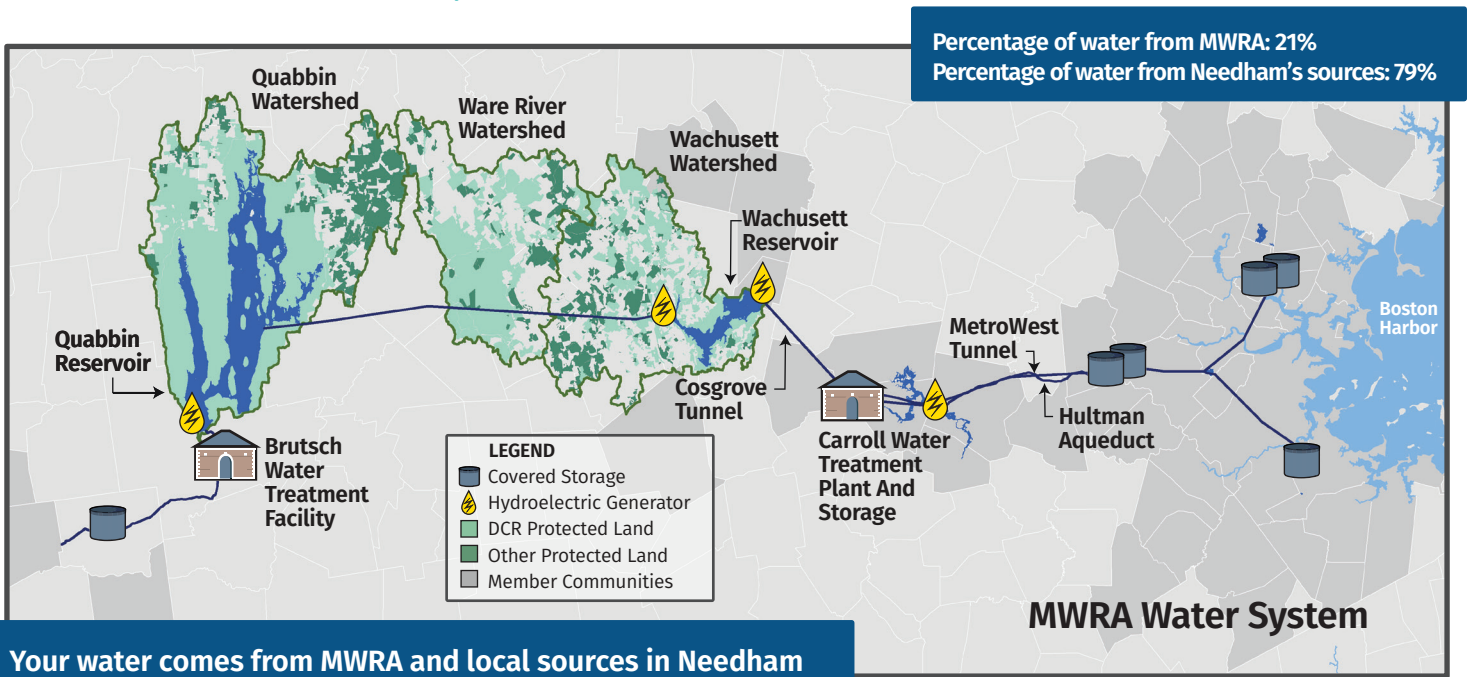
While 2023 was a wet year, as stewards of these reservoirs, we know how precious a resource we have and we cannot afford to waste it. It is an exciting time to be working at MWRA as we continue to maintain and modernize the regional system begun over 175 years ago, while providing a vital service every day.

Please take a moment to read this report. We want you to have the same confidence in the water we deliver to your homes and businesses as we do. Please contact us with any questions or comments about your water quality, or any of MWRA's programs.

Sincerely,

Frederick A. Laskey  
Executive Director

For more information on MWRA and its Board of Directors, visit [www.mwra.com](http://www.mwra.com)



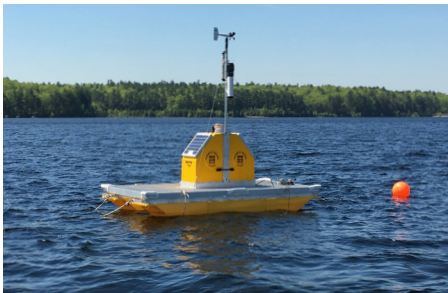
# Providing Safe Drinking Water, From Watershed to Workplace

For over 175 years, water professionals have been working to build, maintain and operate the regional system that provides a reliable safe supply of drinking water to your community.

Today, MWRA professionals work to ensure the delivery of safe, pure water for your home, school or business, 24/7/365. Our staff collaborate with water departments in 53 communities, to ensure the continuing delivery of safe drinking water to 2.5 million people at their homes and businesses.

This annual MWRA drinking water quality report for 2023 provides information on how we work to provide high quality water to your community and to you.

MWRA staff work with staff at your community, the Department of Conservation and Recreation (DCR), and state and federal health professionals and regulators to provide and protect your drinking water. From the 400 square mile forest covered watersheds, to billions of gallons of water in the reservoirs, through treatment and thousands of miles of pipelines, and finally to your drinking water faucet, MWRA's water experts conduct hundreds of thousands of tests on your water every year. Keeping the water safe is a continuous process, from watershed to water tap. MWRA's staff across our entire organization carry out the work needed to protect your water.



## Protected At The Source

The water MWRA and your community provide to your home or business starts with our two pristine reservoirs in central Massachusetts—the Quabbin Reservoir, 65 miles from Boston, and the Wachusett Reservoir, 35 miles from Boston. Combined, these two reservoirs provide an average of 200 million gallons of pure, highly protected, high quality water each day. The Ware River provides additional water when needed. **Your water also comes from local supplies. See page 7 for more information.**

The Quabbin and Wachusett watersheds—areas that drain water to the reservoirs—are naturally protected. More than 85% of the land is covered with forests and wetlands, which filter the rain and snow that enter the 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. This process helps to clean the water, but it also can dissolve and carry very small amounts of material into the reservoir. Minerals and rock do not typically cause problems in the water. Water can also transport contaminants, including naturally occurring minerals or radioactive material, and bacteria, viruses or other potential pathogens from human and animal activity that can cause illness. Testing results show that few contaminants are found in the reservoir water, and those few are in very small amounts well below EPA's treatment standards.

MWRA and DCR staff work together to implement our nationally recognized watershed protection program. The Department of Environmental Protection's (MassDEP) Source Water Assessment report for the Quabbin and Wachusett Reservoirs commended DCR and MWRA for our source water protection plans. The report states that our "watershed protection programs are very successful and greatly reduce the actual risk of contamination." MWRA and DCR follow the report recommendations to maintain the pristine watershed areas and high quality source water. For more information on our source water, go to: [www.mwra.com/sourcewater.html](http://www.mwra.com/sourcewater.html). **Your water also comes from local supplies that have a separate report.**



## Water: Tested From The Source

DCR biologists and environmental scientists sample the streams that feed the reservoirs to identify and resolve potential pollution sources, and to monitor water quality trends. MWRA and DCR scientists sample and analyze water in the reservoirs, and use specialized monitoring buoys to remotely and continuously monitor the

reservoirs. Based on this information, MWRA operators can make key decisions on how to manage the Wachusett and Quabbin reservoirs. A key, initial test for reservoir water quality leaving the reservoirs is turbidity, or cloudiness. Turbidity refers to the amount of suspended particles in the water and can impair water disinfection. 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. In 2023, typical levels in the Wachusett Reservoir were 0.27 NTU, and highest level was only 0.49 NTU.

MWRA also tests water for potential disease-causing organisms, including fecal coliform bacteria, and parasites such as *Giardia* and *Cryptosporidium*, that can enter the water from animal or human waste. All test results were well within state and federal treatment standards. Learn more about test results for waterborne contaminants and their potential health impacts at: [mwra.com](http://mwra.com).

This annual water quality report provides MWRA customers with important information on water quality. MWRA also has monthly water quality reports, information on specific potential contaminants, water system updates, and more at [mwra.com](http://mwra.com). We welcome your questions at 617-242-5323 or [Ask.MWRA@mwra.com](mailto:Ask.MWRA@mwra.com).

## How We Treat Your Water

MWRA's John J. Carroll Water Treatment Plant in Marlborough provides state-of-the-art treatment and monitoring of your water. Our well-trained and licensed operators add measured doses of treatment chemicals, and continuously monitor dozens of parameters. Treatment steps include:

- Ozone, made from pure oxygen, disinfects the water, killing bacteria, viruses and other organisms, and improves water clarity and taste.
- Ultraviolet light (UV), a similar but more powerful form of natural disinfection than sunlight, renders pathogens non-infectious.
- Fluoride protects dental health.
- The water chemistry is adjusted to reduce corrosion of lead from home plumbing (see page 4).
- Monochloramine (a compound of chlorine and ammonia), provides a mild and long-lasting disinfectant to protect the water as it travels through miles of pipelines to your home.

**Information on how your community's local sources are treated and local test results are on page 7.**

# Testing All The Way To Your Home



After we treat your water, MWRA operators and environmental quality staff test it as it leaves the treatment plant, and as it travels towards your home, as required by EPA and state regulations. MWRA sampling teams, and chemists and biologists at MWRA's four laboratories conduct hundreds of thousands of tests per year for over 120 contaminants. A complete list is available on [mwra.com](http://mwra.com). The results for 2023 are shown in the table below. They confirm the quality and safety of the water your community receives from MWRA.

**Building Redundancy For Reliability**  
Maintaining the system and adding redundancy allows us to continue uninterrupted water delivery to your community, even if sections of our system need inspection, repair or rehabilitation.

MWRA's engineers and geologists have completed environmental review and continue to work on design for two new tunnels north and south of Boston to provide reliable service to the entire region, as well as interim improvements to add resilience to the system. We also have major projects underway to rehabilitate the Weston Aqueduct Supply Main 3, a 60-inch pipe in Weston, Waltham, Belmont, Arlington and Medford, as well as a 48-inch pipe in Stoneham and Woburn. See [mwra.com](http://mwra.com) for more information.

Your community is investing in reliability as well. MWRA provides zero-interest loans to communities for pipeline rehabilitation and other water quality improvements. During 2023, we loaned \$50 million to 17 communities for pipeline projects.



*Washing vegetables at a pump (Greenwich)*

**The 2,500 people who lived in the four towns that were removed to build the Quabbin Reservoir didn't work for the water system, but their sacrifices help protect our drinking water, even today. Learn more at [MWRA.com](http://MWRA.com).**

### Your Water Wins Awards

The MWRA received an award from Mass DEP for outstanding performance in 2023.

## MWRA Water Test Results 2023 (Local Results on Page 7)

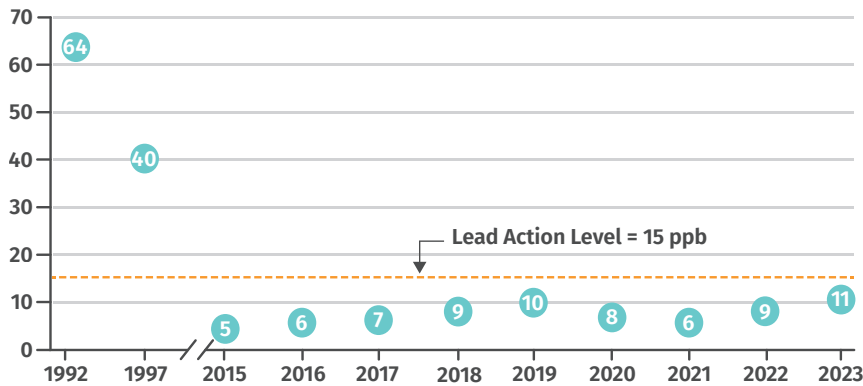
MWRA found only the contaminants listed here or discussed in this report. All are below EPA's Maximum Contaminant Levels (MCLs).

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	0.009	0.007-0.01	2	No	Common mineral in nature
Fluoride	ppm	4	0.633	ND-0.8	4	No	Additive for dental health
Nitrate <sup>^</sup>	ppm	10	0.62	ND-0.62	10	No	Byproduct of disinfection
Total Trihalomethanes	ppb	80	24.2	5.95-37.6	NS	No	Byproduct of water disinfection
Haloacetic Acids-5	ppb	60	20.5	4.8-34.9	NS	No	Byproduct of water disinfection
Monochloramine	ppm	4-MRDL	1.98	0.04-3.7	4-MRDLG	No	Water disinfectant
Radium-226	pCi/L	5	0.82	0.82	0	No	Erosion of natural deposits

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 pCi/L=picocuries per liter ND= Not detected NS=no standard <sup>^</sup>=As required by DEP, the maximum result is reported, not the average.

# Working To Keep Lead Out Of Drinking Water

## 90% Lead Levels in MWRA System of Fully Served Communities (ppb)



### What Is An Action Level?

An Action Level is the amount of lead in water that requires action to reduce exposure. If your home or school drinking water is above the lead Action Level, additional steps to reduce lead may be required. If more than 10% of your community's samples were over the lead Action Level, your local water department is taking action to address the problem. See page 7.

The water from MWRA's reservoirs is free of lead. Lead can be found, however, in your home piping system—and in your home or business drinking water. Learn about the health impacts of lead and how to reduce exposure to this toxic metal.

Lead affects young children and may cause damage to the brain, slow growth and development, and create learning and behavior problems. Preventing lead exposure is particularly important if a pregnant woman or a child lives in your home or apartment. Lead can also impact the health of your entire family. While lead poisoning frequently comes from exposure to lead paint chips or dust, lead in drinking water can also contribute to total lead exposure.

### How Lead Enters Drinking Water

Lead in your home plumbing, or a lead service line, can contribute to elevated lead levels in the water you drink. MWRA's water is lead-free when it leaves our reservoirs. Water mains that provide water to your community are made mostly of iron, steel, or concrete, and do not add lead to the water. Lead can enter your tap water from your service line—the pipe connecting your home to the water main—if it is made of lead, lead solder used in plumbing, or from some older brass faucets.

Corrosion, or wearing away of lead-based materials, can add lead to tap water, especially if water sits in the pipes for a long time before it is used. MWRA's licensed treatment operators adjust the water's pH and buffering capacity by adding sodium carbonate and carbon dioxide to the water. This treatment makes water less corrosive and reduces leaching of lead into drinking water. Lead levels found in tests of tap water have dropped by nearly 90% since we made this treatment change in 1996. Learn more about lead in drinking water at [mwra.com](http://mwra.com).

## Lead & Copper Results, September 2023

	Range	90% Value	AL	Ideal Goal (MCLG)	#Homes Above AL / #Homes Tested
Lead (ppb)	0.08–965	10.8	15	0	36/595
Copper (ppb)	ND–292	140	1300	1300	0/595

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

### 3 Ways to reduce lead in your water:

- Remove your lead service line
- Run your water before using
- Use a filter certified to remove lead

### Important EPA Information On Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water comes 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. 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 Water Drinking Hotline at 1-800-426-4791 or [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

### MWRA Meets Lead Standard In 2023

Under EPA and DEP rules, MWRA and your local water department are required to test local tap water each year. We collect samples from homes with lead service lines or lead solder. The EPA rule requires that 9 of 10 homes tested must have lead levels below the Action Level of 15 parts per billion (ppb).

This testing process can provide information on whether lead is corroding and mixing with the drinking water. It also provides communities and homeowners with information on how to reduce lead in their drinking water. The results do not reflect lead levels in all homes.

All sampling rounds over the past 21 years have been below the EPA Action Level. Nine out of ten homes were below 10.8 ppb—below the 15 ppb Action Level. See page 7 for your local results.

### Sodium and Drinking Water

MWRA tests for sodium monthly, and the highest level was 35.1 mg/L (about 8.3 mg per 8 oz. glass). This level would be considered Very Low Sodium by the Food and Drug Administration (FDA). Sodium in drinking water contributes only a small fraction of a person's overall intake (less than 5%).

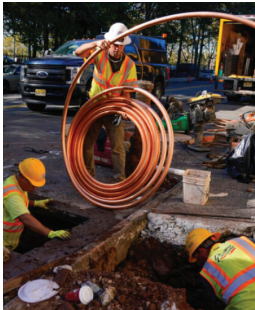
# Working To Reduce Lead Exposure

## Lead Service Lines

A service line is the pipe that connects your home or building to the water main in the street. If your service line is made of lead, it can be a main source of lead in your tap water. Older pipes that combined galvanized iron and lead connectors (“goosenecks”) can also release lead. Lead service lines should be removed entirely to prevent lead in your drinking water.

## Working To Replace Lead Service Lines

To help replace lead service lines, MWRA and its Advisory Board offer zero-interest loans to member communities. Each MWRA community can develop its own local plan, and many communities have already taken steps to remove lead service lines. Since 2016, MWRA has provided \$41 million to 17 communities to replace lead service lines. Your local water department staff can help



you find out if you have a lead service line, and provide help in replacing it. In some cases, an onsite check is necessary to determine the specific piping to your building.



Your water service line connects your house to the water main which runs under your street.

### Water Service Lines

Copper	Galvanized
Lead With Bulb	Lead



## How To Test Your Drinking Water

If you are concerned about lead piping in your home, contact your local water department about testing for lead in your drinking water. MWRA also maintains a list of certified laboratories and sampling instructions at [mwra.com](http://mwra.com). You may also talk to an MWRA expert at 617-242-5323.

## Steps To Reduce Lead In Your Home Or Office

- Find out if you have a lead service line, and get it replaced.
- Let water run before using it—fresh water is better than stale.
- Any time water has not been used for more than 6 hours, run the faucet used for drinking water or cooking for at least one minute or until after the water runs cold. To save water, fill a pitcher with fresh water and place it in the refrigerator.
- Never use hot water from the faucet for drinking or cooking, especially when making baby formula or other food for infants or young children.
- Remove loose lead solder and debris. Every few months, remove the aerator from each faucet and run water for 3 to 5 minutes.
- Be careful of places where you may find lead in or near you home. Paint, soil, dust and pottery may contain lead. Call the Massachusetts Department of Public Health at 1-800-532-9571 or 1-800-424-LEAD for information on lead and health impacts.

Many communities have on-line maps. You can also see if your service line is made of lead by scratching the pipe near your water meter with a key or other metal object. Lead pipes will show a dull grey color, while copper pipes will not. For a how-to guide, go to: [www.epa.gov/pyt](http://www.epa.gov/pyt).

## Lead Testing In Schools And Childcares

Children can consume much of their drinking water at school or childcare. Plumbing there may contain lead and contribute to lead exposure. MWRA, in coordination with MassDEP, provides no-cost lab analysis and technical assistance for schools and childcare centers in MWRA communities. Since 2016, MWRA’s laboratory staff have conducted over 40,000 tests for 576 schools and childcares in 44 communities. Results are available on the MassDEP website at: [www.mass.gov/dep](http://www.mass.gov/dep) (search for “lead in schools”). Or contact your local school or water department.

### Did you know?

The word “plumbing” originally came from the latin word for lead-plumbum.

# Information We All Need



## EPA Information On 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, MassDEP and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (FDA) and the Massachusetts Department of Public Health (MDPH) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

## Monitoring For PFAS

PFAS, or per- and polyfluoroalkyl substances, used since the 1940's for many purposes from stain and water proofing to firefighting, continue to be a national concern. Due to our well protected sources, tests of MWRA water show only trace amounts of these compounds, well below the state PFAS6 standard of 20 parts per trillion. MWRA also meets the new EPA standards announced in April 2024. See [mwra.com](http://mwra.com) for results and more details.

## Important Health Information: 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 disorder, 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).

## Working With Your Community To Test Your Water

MWRA works with local water department staff to sample and test 300-500 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. If total coliform is detected in more than 5% of water samples in a month, the water system is required to investigate the possible source and fix any identified problems. If a water sample does test positive, our laboratory staff run a more specific test for *E. coli*, which is a bacteria found in human and animal fecal waste and may cause illness. If your community was required to do an investigation, or found *E. coli*, it will be in the letter from your community on page 7.

## Important Research For New Regulations

MWRA works with EPA and health research organizations to help define new national drinking water standards by collecting data on water contaminants that are not yet regulated. Very few of these potential contaminants are found in MWRA water due to our source water protection efforts. Detailed information on testing for unregulated contaminants, as well as data on PFAS, disinfection by-products, *Giardia* and *Cryptosporidium*, and other contaminants can be found at [mwra.com](http://mwra.com), search for UCMR.



## Prevent Cross-Connections

Your water department staff work to prevent cross-connections that may allow harmful organisms or other contaminants to contaminate your water if a backflow occurs.

Backflow sources could include:

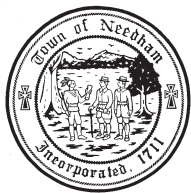
- Garden hoses or swimming pools
- Boilers
- Irrigation systems or wells
- Residential fire protection systems

MassDEP recommends you install backflow prevention devices on inside and outside hose connections to protect the drinking water in your home and community. For more information, please call 617-242-5323, or visit [mwra.com](http://mwra.com).



## Leading By Example On Climate Change

MWRA energy managers have helped reduce MWRA's energy use and produce more green energy. We have reduced our greenhouse gas emissions by over 40% and were awarded the Massachusetts Leading by Example Award in 2023.



## Needham Water Division Department of Public Works

Public Water Supply  
# 3199000

**Needham Water Supply:** Needham draws its drinking water from two separate sources. The primary source of drinking water comes from three gravel packed ground water wells located here in town known as the Charles River Water Treatment Facility. This well field has been the major source of water supply since the 1930's. The Town's secondary source is from the Massachusetts Water Resources Authority (MWRA). The MWRA supply enters Needham's distribution system through a 36" diameter pipe that runs from the MWRA's Metro West Tunnel in Weston to the St. Mary's booster pumping station. The Department of Environmental Protection (DEP) limits the amount of water the Town can take from the Charles River basin at an annual average of 2.63 MGD (million gallons a day). We use the MWRA water when there's a higher demand in the summer and firefighting situations. Needham used an average of 3.25 million gallons per day in 2023: 79 percent was supplied by our primary source and the remaining 21 percent was from the MWRA.

**Source Water Assessment:** The Department of Environmental Protection (MassDEP) approved the Town's water source protection based on land use and operational restrictions in areas of influence to the Town's drinking water wells. The assessment helps focus protection efforts on appropriate best management practices and drinking water source protection measures. The complete assessment report is available on line: [www.mass.gov/lists/source-water-assessment-and-protection-swap-program-documents](http://www.mass.gov/lists/source-water-assessment-and-protection-swap-program-documents).

**Water Department Operations:** The Needham Department of Public Works water division maintains and operates the Charles River Water Treatment Facility and its water distribution system to deliver water to its customers. The system consists of 146 miles of water mains, 3,400 gate valves, 10,185 service connections, and 1,245 fire hydrants and two water storage tanks that provide a combined 4 million gallons of storage. We conducted a sanitary (cleaning) and security inspection on both Dunster Rd. & Birds Hill water tanks. Needham also performs regular preventative maintenance by replacing older water meters and upgrading older water mains. The Town hired a contractor to replace a 16" water main on Rosemary St. from Hillside Ave to Tillotson St. Needham also replaced 6 older fire hydrants and conducted a system wide leak detection survey. Well #2 at the Charles River Water Treatment Facility was re-developed (cleaned) to bring back its original capacity. The DPW continues to undertake construction and maintenance projects to provide our customers with the safest and most reliable supply of drinking water. You will also receive a separate report outlining these projects and water quality results from our local supplies at: <https://www.needhamma.gov/298/Drinking-Water-Quality>.

**Water Treatment:** In compliance with Federal and State drinking water regulations Needham conducts a water quality sampling program. Needham well water must be treated before it reaches consumer's taps. This includes oxidation and removal of iron and manganese with sodium hypochlorite via filtration, pH adjustment to raise the natural pH and alkalinity thereby reducing the water's corrosiveness to household plumbing by adding sodium hydroxide, disinfection via the addition of chlorine to inactivate any pathogens that may be present in the water and to maintain a chlorine residual in the distribution system. Fluoride is added to prevent tooth decay, and polyphosphate to minimize calcium from precipitating in pipes.

**Monitoring Water For PFAS:** PFAS compounds continue to be an environmental concern. In 2020, MassDEP published a drinking standard for the sum of PFAS6. Needham's water showed detected levels of PFAS, but were below the regulated level.

	Average (monthly)	Range	MCL	MCLG	Violation
PFAS 6 (ppt)	10.1	5.6-10.1	20	NA	No

**Water Analysis:** Needham's Water Division along with the MWRA analyze water samples regularly to ensure the Town's drinking water meets or exceeds MassDEP drinking water quality standards. In 2023, Needham collected over 500 water samples analyzing over 100 potential contaminants and found these to be well below all State and Federal regulations. The Town has successfully maintained lead and copper levels well below the EPA Action Levels.

	Range of Detections	90 <sup>th</sup> Percentile Value	Action Level	Ideal Goal MCLG	# Homes Above AL # Homes Tested	Violation
Lead (ppb)	0-10	5	15	0	0 of 30	No
Copper (ppb)	0-27	14	1300	1300	0 of 30	No

**Do I Have a Lead Service Line?** A service line connects your building to the water main in the street. Contact the Water Department to find out if you have a lead service line at your home. Lead services should be removed entirely to prevent lead in your drinking water.

If you have any questions or concerns about your drinking water quality, or about public meetings, please contact: **Stephen Cusick, Water Treatment Facility Manager 781-416-4071** or **Michael Retzky Water & Sewer Superintendent 781-455-7550**.



# Water Conservation



## Indoor Water Saving Tips

### Check for leaky pipes, faucets, or toilets.

On average, household leaks can waste 10,000 gallons every year! To see if your toilet has a leak, add a dye tablet or food coloring to your toilet's water tank. If any color or dye appears in the bowl within 15 minutes, you have a leak. The flush valve or flapper can be easily cleaned or replaced.

**Low-flush toilets** could cut your water use by 20-60%! Old inefficient toilets can use over 6 gallons per flush. The current federal standard requires all new toilets use no more than 1.6 gallons per flush. Newer models use 1.3 gallons or less per flush.

### Replace dripping faucets and showerheads.

Installing new fixtures are an easy and cost-effective way to reduce unnecessary water use. A low-flow faucet aerator can reduce the flow from 2.2 gallons to 1.5 gallons per minute

**Showering for 5 minutes** uses only 10-25 gallons while a full bathtub uses up to 70 gallons. Try conserving water by taking shorter showers or filling the tub only halfway.

**"Never let the water run"** in the bathroom or kitchen.

- Try turning off the tap while you brush your teeth or shave.
- Fill a bowl of water when you wash the dishes, fruits or vegetables, rinsing only when needed.

Reduce your water use by only washing full loads of dishes or clothes.

Look for the **Energy Star** or **WaterSense**® label for the most efficient household products and appliances.



## Outdoor Water Saving

**Avoid Evaporation:** Water your lawn in the early mornings, between 6 & 10 AM, while temperatures are cooler and the wind is calmer. If you have a pool, cover it when not in use.

**Never water on a windy day.**

**Use a broom** to clean debris from your driveway or sidewalk. No need to use the hose.

### Grow native and low-water using plants!

Regionally appropriate and established plants are accustomed to the climate and soil conditions. Planting drought resistant and native plants will require less maintenance, water, and fertilizer.

**The Inch Rule:** If there has been an inch of rainfall during the week, you more than likely don't need to water at all.

Lawn irrigation can account for as much as 30% of water consumption. **Be sure sprinklers are not damaged and aimed correctly.** Water only your lawn, not your pavement.

Consider installing a **Water-Sense® labeled weather-based irrigation controller** to automate your watering system.

Healthy soils hold more water. **Apply mulch** around plants to reduce evaporation, promote plant growth, and control weeds.



## Protect Boston Harbor And Our Rivers

Only flush toilet paper—most “flushable wipes” can clog pipes and cause overflows.

Fat, oil and grease go in the trash, not the drain.

Sump pumps and roof drains should connect to a storm drain or a dry well, not the sanitary sewer. Too much clean water can overload the sewer system.

For more information, go to [mwra.com](http://mwra.com).

### Why Save Water?

- Saving water can save you money by lowering your monthly water bill.
- Water is a shared resource. Wildlife, rivers and crops all need water too.
- Reducing water use reduces energy costs by decreasing the energy needed to clean, pump, and heat water.

**More information on water conservation and efficiency can be found at:**

[www.mwra.com/comsupport/waterconservationmain.htm](http://www.mwra.com/comsupport/waterconservationmain.htm)

## MWRA is an EPA Water Sense Partner!

MWRA has teamed up with the EPA's WaterSense Program to help consumers save water for future generations and reduce costs on their utility bills. For more information on WaterSense, and for a full list of labeled products and WaterSense irrigation partners, visit: [www.epa.gov/watersense](http://www.epa.gov/watersense).

Request free MWRA water conservation kits at: [wc.mwra.com/home](http://wc.mwra.com/home)

