



## 2025 Consumer Confidence Report

### Foreword from the Superintendent

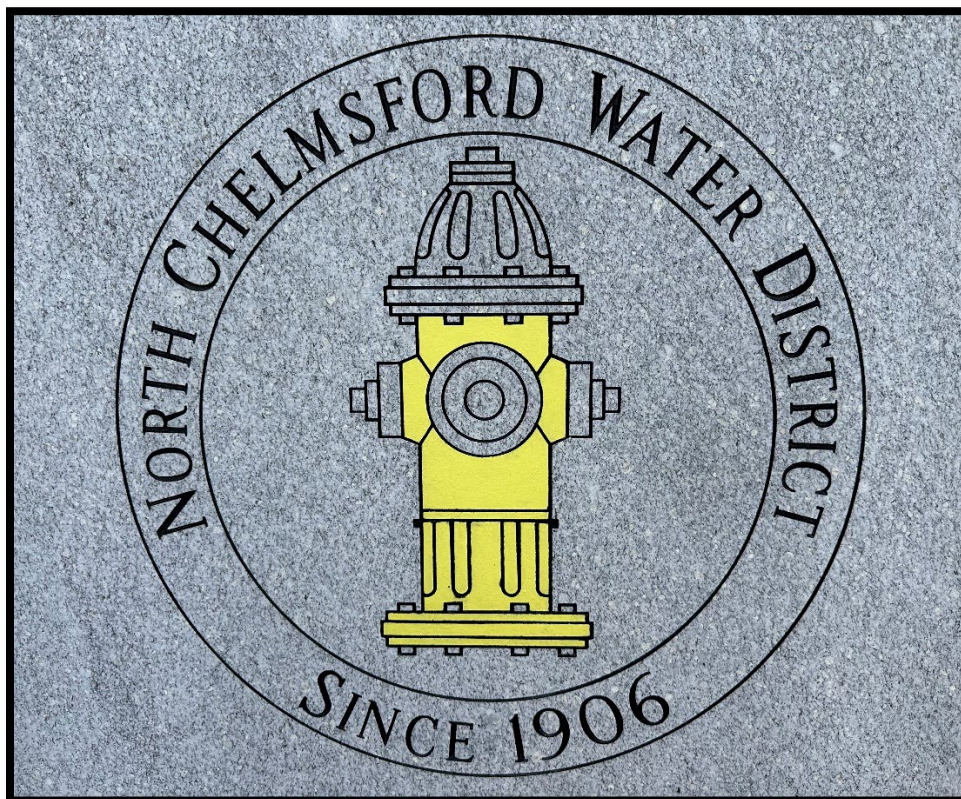
This report, as required by the Safe Drinking Water Act (SDWA), covers system conditions and testing conducted from January 1, 2025, to December 31, 2025, information about our water sources, water sampling results, and other relevant topics pertaining to water quality/safety, regulations, and education.

The North Chelmsford Water District (“the District”) is committed to providing you with safe, reliable, and high-quality water for domestic use and fire suppression (hydrants and fire sprinklers). Our water is tested with sophisticated equipment and advanced procedures to maintain compliance with state and federal regulations, and we continue to make improvements to our distribution and treatment systems to stay current with the latest available research and technology.

Your attention to our Consumer Confidence Report is greatly appreciated. While this report is only released annually, we continue to update our website and Facebook Page as needed with news and announcements (including upcoming projects, planned hydrant/main flushing, and emergency main breaks). We also now release a semiannual (Winter and Summer) newsletter with non-emergency updates and/or educational information. Our ordinances, monthly public meeting agendas and minutes, and other information are also available on our website (including a digital copy of this report). Please contact our office if you have any questions.

*Sincerely,*

*Aurora Bas | Superintendent*



## District Office Location and Hours of Operation

Our office is located at 64 Washington St. in North Chelmsford, MA. Our office hours are from 7:00 AM to 3:00 PM, Monday through Friday (excluding holidays). We have a 24/7 answering service in case of an emergency, and one of our Operators is always on call (including weekends and holidays).

Phone No.: (978) 251-3931

Email: [northchelmsfordwater@outlook.com](mailto:northchelmsfordwater@outlook.com)

Fax No.: (978) 251-1181

Website: [www.northchelmsfordwater.com](http://www.northchelmsfordwater.com)

## Board of Water Commissioners and Management

In addition to the Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and local governing authorities, the District is overseen by a three-member Board of Water Commissioners elected by District customers who reside in Chelmsford. The Commissioners are Bruce H. Clark (Chairman), Robert M. Leavitt, and David M. Irvine; the Superintendent is Aurora Bas, and the Office Manager/Treasurer is Daysha Morell.

## Monthly Board of Water Commissioners Meeting and Public Participation

On the first Monday of each month (except July) at 4:00 PM, the Commissioners meet with the Superintendent and Office Manager/Treasurer during public meetings hosted at our office. All meeting times and agendas are posted at the Chelmsford Town Hall, at our office, and on our website at least 72 hours before the meeting.

Anyone who wishes to meet with the Commissioners or speak at the monthly meeting must submit a written request to the Office Manager/Treasurer by the preceding Wednesday at noon to be added to the next agenda (this deadline is strictly enforced to comply with the Open Meeting Law). We encourage your interest and participation in decisions affecting our drinking water and appreciate the opportunity to address your questions.

## Groundwater Sources for Drinking Water and System Information

The District utilizes groundwater pumped from six wells (known as the Bomil Well Field) off Richardson Rd.: four gravel-packed and two bedrock, which withdraw from the Merrimack River Basin and are recharged from Cold Spring Brook and Stony Brook. Table 1: District Well Names and Source IDs (below) displays the Source Identification Numbers (IDs) associated with our wells:

**Table 1: District Well Names and Source IDs**

<u>District Well Name</u>	<u>Well Type</u>	<u>Source ID</u>
Bomil Well No. 1	Gravel Packed	3056002-RW01G
Bomil Well No. 2	Gravel Packed	3056002-RW02G
Bomil Well No. 3A	Gravel Packed	3056002-RW07G
Bomil Well No. 4	Gravel Packed	3056002-RW04G
Bedrock Well No. 1	Bedrock	3056002-RW05G
Bedrock Well No. 2	Bedrock	3056002-RW06G

Our two water storage tanks (Washington St. Tank and Swain Rd. Tank) have a combined capacity of 5.9 million gallons of water; in 2025, we supplied 240 million gallons for a variety of uses, including drinking water and the fire hydrant network. We have standby water main interconnections for emergency use with the Lowell Regional Water Utility and Chelmsford Water District, although we did not receive any water from either party in 2025.

## Source Water Assessment and Protection (SWAP) Program

The SDWA Amendments of 1996 required every state to examine existing and potential threats to the quality of all of its public water supply sources and to develop a SWAP program. This program, last conducted by MassDEP in 2004, facilitated the assessment of public water supply source susceptibility to potential contamination due to land use or activity within the recharge areas. Results from this program included:

1. Delineation of protection areas for all public ground and surface water sources
2. Inventory of land uses in these areas that may present potential threats to water quality
3. Determination of the susceptibility of water supplies to contamination these sources
4. Publication of the results

A copy of the District's SWAP Program findings is available via this link: <https://www.mass.gov/doc/north-chelmsford-water-district-swap-report/download>

The District's system was assigned a susceptibility ranking of "high" based upon the information collected during this assessment. At the time of this report, contributing factors to this ranking included improper salt storage and road salting, potential influence of stormwater catch basins, and proximity to Route 3, a railroad, and oil or hazardous material. We continue to work alongside the Town of Chelmsford ("the Town") Department of Public Works to monitor our per- and polyfluoroalkyl substances (PFAS) levels near the Bomil Well Field and conduct on-site remediation. The water is subsequently run through granular activated carbon filters at our Water Treatment Plant (WTP) for further removal. For our PFAS6 (the six PFAS compounds which are regulated) test results, please consult the "PFAS Information" tab on our website.

We continue to comply with all governing federal and state sampling requirements and diligently work with MassDEP, the Massachusetts Highway Department, and the Town to monitor and reduce sodium levels and the potential introduction of other contaminants into our water supply.

## Our Water Treatment Process

As of 2011, the District provides physical and chemical water treatment via a system of sophisticated processes at our WTP. Water is pumped from the wells into a cascading aerator, runs through ultrafiltration filters to remove larger particulate matter then through two granular activated carbon filters for PFAS removal and odor reduction. Chlorine dioxide is added to the water for disinfection and to remove iron and manganese, potassium hydroxide is added to the water to adjust pH and aid with corrosion control (which inhibits pipe material from leaching into the water), and polyaluminum chloride is added to assist with filtration (by bonding with particulates, which increases their size and weight, and makes filtration much easier). Chlorine is added prior to sending the water into the distribution system to maintain a residual sufficient enough to maintain our disinfection process as the water travels through the system. Please note that we do not add fluoride to our water.

We submit an annual report to MassDEP detailing our treatment process and chemicals used for their review and comments. We are extremely vigilant of our standard operating procedures and ensure that sampling and testing are conducted accurately to acquire true results.

## COMPLETED: Water Service Line Inventory

On September 23, 2025, MassDEP accepted the District's final service water service line inventory. The District achieved a no-lead-service designation, signifying that there are no lead or galvanized requiring replacement service lines in the distribution system.

Please note that this designation is only for water service lines and is not necessarily representative of internal plumbing materials after your water meter. Please refer to the previous section for additional health information about lead and ways to minimize exposure.

*Thank you to everyone who participated in this extremely important project!*

## 2025 Water Quality Testing Results Statement

Table 2: 2025 Water Quality Testing Results provides drinking water contaminant sampling results for samples taken from January 1, 2025, to December 31, 2025, or during the most recent sampling period (as appropriate for our assigned sampling schedule). Unless otherwise noted, the data presented in Table 2 reflects testing conducted in 2025. MassDEP allows us to monitor certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly by year; some of the data may be more than one year old. The presence of contaminants in the water does not necessarily imply that the water poses a health risk. Please note that some contaminants are not included in Table 2 because the results were non-detectable.

## Reading and Comprehending Water Quality Test Results: Definitions and Units of Measurement

### Definitions

90<sup>th</sup> Percentile: Out of every 10 homes sampled, 9 were at or below this level. This number is compared to the action level to determine lead and copper compliance.

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

Health Advisory (HA): Provides information on a contaminant that can cause negative human health effects and is known or anticipated to occur in drinking water.

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

Maximum Contaminant 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 Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant 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 contamination.

Office of Research and Standards Guideline (ORSG): This is the concentration of a chemical in drinking water at or below which adverse health effects are unlikely to occur after chronic (lifetime) exposure. If exceeded, it serves as an indicator of the potential need for further action.

Secondary Maximum Contaminant Level (SMCL): These standards are developed to protect aesthetic qualities of drinking water and are not health-based.

Unregulated Contaminants: Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted.

### Units of Measurement

ppm: parts per million or milligrams per liter ( $\frac{\text{mg}}{\text{L}}$ )

$\frac{\text{pCi}}{\text{L}}$ : picocuries per liter (a measure of radioactivity)

ppb: parts per billion or micrograms per liter ( $\frac{\mu\text{g}}{\text{L}}$ )

NTU: Nephelometric Turbidity Units

ppt: parts per trillion or nanograms per liter ( $\frac{\text{ng}}{\text{L}}$ )

Table 2: 2025 Water Quality Testing Results							
Regulated Contaminants							
Volatile Organic Compounds							
Name (Units)	Result	MCL or MRDL	ORSG	Violation	Possible Sources of Contamination	Health Effects	
1,2-Dichlorobenzene-d4 (%)	94	70-130	N/A	No	N/A	N/A	
4-Bromofluorobenzene (%)	88	70-130	N/A	No	N/A	N/A	
Bromodichloromethane (ppb)	1.2	N/A	N/A	No	Trihalomethane; byproduct of drinking water chlorination	Some people who drink water containing bromodichloromethane at high concentrations for many years could experience liver and kidney problems.	
Bromoform (ppb)	1.4	N/A	N/A	No	Trihalomethane; byproduct of drinking water chlorination	Some people who drink water containing bromoform at high concentrations for many years could experience liver and kidney problems.	
Chloroform (ppb)	0.8	N/A	70	No	Trihalomethane; byproduct of drinking water chlorination. (In non-chlorinated sources, chloroform may be naturally occurring.)	Some people who drink water containing chloroform at high concentrations for many years could experience liver and kidney problems and may have an increased risk of cancer.	
Dibromochloromethane (ppb)	2.4	N/A	N/A	No	Trihalomethane; byproduct of drinking water chlorination	Some people who drink water containing dibromochloromethane at high concentrations for many years could experience liver and kidney problems.	
Radioactive Compounds							
Name (Units)	Date Collected	Result	MCL or MRDL	MCLG	Violation	Possible Sources of Contamination	
Alpha Emitters (pCi/L)	1/29/2024	13.3±0.9	15	0	No	Erosion of natural deposits	
Uranium (ppb)	1/12/2024	14.4	30	0	No	Erosion of natural deposits	
Radium 226 & Radium 228 (pCi/L)	6/15 & 9/5/2018	1.0±0.9	5	0	No	Natural sources	
PFAS6							
Name (Units)	Range Detected	Highest Quarterly Average	MCL	Violation	Possible Sources of Contamination	Health Effects	
PFAS6 (ppt)	ND-2.86	2.86	20	No	Discharges and emissions from industrial and manufacturing sources associated with the production or use of these PFAS, including production of moisture and oil resistant coatings on fabrics and other materials. Additional sources include the use and disposal of products containing these PFAS, such as fire-fighting foams.	Some people who drink water containing these PFAS in excess of the MCL may experience certain adverse effects. These could include effects on the liver, blood, immune system, thyroid, and fetal development. These PFAS may also elevate the risk of certain cancers.	
Disinfection Byproducts							
Contaminant	MRDL	MRDLG	Highest Quarterly Average	Range of Detects	Violation	Major Sources	Health Effects
Chloramines (ppm)	4	4	0.81	0.61-0.89	No	Water additive used to control microbes	Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.
Contaminant	MRDL	MRDLG	Highest Result	Range of Detects	Violation	Major Sources	Health Effects
Chlorine Dioxide (ppb)	800	800	80	0-80	No	Water additive used to control microbes	Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.
Contaminant	MCL	MCLG	Highest Quarterly Average	Range of Detects	Violation	Major Sources	Health Effects
Chlorite (ppm)	1	0.8	0.023	ND-0.039	No	Byproduct of drinking water disinfection	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.
Contaminant	No. of Sites	Highest Result or RAA	Range of Detects	MCL	MCLG	Violation	Possible Sources
HAA5 (ppb)	2	3.3	2.2-3.3	60	N/A	No	Byproduct of drinking water disinfection
TTHM (ppb)	2	37	17-37	80	N/A	No	Byproduct of drinking water disinfection

Regulated Contaminants									
Lead and Copper*									
Name	Date Collected	90th Percentile	AL	MCLG	No. of Sites Sampled	No. of Sites above AL	Range	Source	Health and/or Aesthetic Effects
Copper (ppm)	August 2025	0.345	1.3	1.3	16	0	0.0522-0.376	Internal corrosion of household plumbing; erosion of natural deposits	May produce a metallic taste; blue-green staining
Lead (ppb)	August 2025	3.6	15	0	16	0	ND-3.9	Internal corrosion of household plumbing; erosion of natural deposits	There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant women, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks.
*Please see "Important Information about Your Drinking Water" at the end of this report									
Inorganic Contaminants									
Contaminant	Date(s) Collected	Highest Result or Average	MCL or MRDL	MCLG or MRDLG	Violation	Major Sources	Health Effects		
Arsenic (ppb)	8/7/2024	ND	10	N/A	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.		
Barium (ppm)	8/7/2024	0.027	2	2	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.		
Fluoride** (ppm)	8/7/2024	0.34	4	4	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.		
Mercury (ppb)	8/7/2024	ND	2	2	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland	Some people who drink water containing inorganic mercury well in excess of the MCL over many years could experience kidney damage.		
Nitrate (ppm)	5/1/2024	1.14	10	10	No	Runoff from fertilizer use; leaching from septic tanks; natural deposits	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.		
Nitrite (ppm)	5/1/2024	ND	1	1	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.		
Perchlorate (ppb)	7/10/2024	ND	2	N/A	No	Rocket propellants, fireworks, munitions, flares, blasting agents	Perchlorate interferes with the normal function of the thyroid gland and thus has the potential to affect growth and development, causing brain damage and other adverse effects, particularly in fetuses and infants. Pregnant women, the fetus, infants, children up to the age of 12, and people with a thyroid condition are particularly susceptible to perchlorate toxicity.		
**Fluoride has an SMCL of 2 ppm to better protect human health									

Secondary and Unregulated Contaminants							
Secondary Contaminants							
Name (Units)	Result or Range Detected	SMCL	Violation	Source to Drinking Water	Health and/or Aesthetic Effects		
Aluminum (ppb)	ND	200	No	Residue from water treatment process; erosion of natural deposits	May produce colored water		
Chloride (ppm)	260	250	Fails EPA Secondary	Runoff and leaching from natural deposits; seawater influence	May produce a salty taste		
Color, Apparent (C.U.)	ND	15	No	N/A	May produce a visible tint		
Iron (ppb)	ND	300	No	Natural and industrial sources as well as aging and corroding distribution systems and household pipes	Use of water containing iron at concentrations above the secondary MCL may result in aesthetic issues including the staining of laundry and plumbing fixtures and water with an unpleasant metallic taste and rusty odor.		
Odor (T.O.N.)	1	3	No	Naturally occurring organic materials that form ions when in water; seawater influence	May produce a "rotten-egg", musty, or chemical smell		
Sulfate (ppm)	17.1	250	No	Runoff and leaching from natural deposits; industrial wastes	May produce a salty taste		
Total Dissolved Solids (ppm)	499	500	No	Runoff and leaching from natural deposits; seawater influence	May produce hardness; deposits; colored water; staining; salty taste		
Turbidity (NTU)	0.64	5	No	Soil runoff	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.		
Zinc (ppm)	ND	5	No	Corrosion of household plumbing systems; erosion of natural deposits	May produce a metallic taste		
Unregulated Contaminants (non-PFAS)							
Name (Units)	Result or Range Detected	Average Detected	SMCL	OSRG	Violation	Source to Drinking Water	Health Effects
Radon (pCi/L) [8/22/2018]	687	N/A	N/A	10,000	No	Natural sources	Some people who drink water containing radon-222 at high concentrations for many years could experience cancer of the lung.
Lithium* (ppb)	30.3-30.8	30.55	N/A	<i>There is no ORS Guideline for this compound.</i>	No	Abundant element in the earth's crust, present in certain minerals, especially in areas of volcanic activity and in fluids associated with gas and oil well drilling; anthropogenic sources of lithium include its use in batteries, ceramics, glass, lubricants, metallurgy, and medicine and so it may be found in leachate from landfills, septic systems, and sewage treatment plants.	Some people who drink water containing lithium at high concentrations for many years could experience effects on the nervous system, kidney, thyroid, and heart, as well as on the developing fetus.
Manganese** (ppb)	0.022	N/A	50	300 (lifetime for general pop.) 1000 (for 10-day exposure for general pop.) 300 for infants (limit exposure to 10 days)	No	Natural sources as well as discharges from industrial uses; erosion of natural deposits	Use of water containing manganese at concentrations above the secondary MCL may result in aesthetic issues including the staining of laundry and plumbing fixtures and water with an unpleasant bitter metallic taste, odor, and/or black-brown color; infants and children who drink water containing manganese at high concentrations may have learning and behavior problems. People with liver disease who drink water containing manganese at high concentrations may have neurological disorders.
Methyl tert-Butyl Ether (MtBE)*** (ppb)	ND	N/A	N/A	70	No	Fuel additive; leaks and spills from gasoline storage tanks	Some people who drink water containing methyl tertiary butyl ether at high concentrations for many years could experience chronic effects on the kidney and liver and possible cancer.
Sodium (ppm)	87.8-101	94.4	N/A	20	Fails State Guideline	Discharge from the use and improper storage of sodium-containing de-icing compounds or in water-softening agents	Some people who drink water containing sodium at high concentrations for many years could experience an increase in blood pressure.

\*In calendar year 2024, lithium was detected during one or more sampling events, which was required as part of the Fifth Unregulated Monitoring Rule (UCMR5). UCMR5 detections must be reported in the Consumer Confidence Report (CCR) as a public health protection measure. Since our 2024 CCR didn't include these detections, MassDEP issued a violation for failure to comply with this requirement, reported the violation to USEPA, and required us to include the detections in this CCR. Unregulated contaminants are those for which there are no established drinking water standards. The purpose of unregulated contaminant monitoring is to assist regulatory agencies in determining their occurrence in drinking water and whether future regulation is warranted.

\*\*EPA has established a lifetime HA of 0.3 mg/L and an acute HA of 1.0 mg/L.

\*\*\*EPA has established a lifetime HA for MtBE of 0.3 mg/L and an acute HA at 1.0 mg/L.

## Educational Information: Water Contamination and Personal Vulnerability

In order to ensure that tap water is safe to drink, EPA and MassDEP prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health. 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 emailing the EPA at [safewater@epa.gov](mailto:safewater@epa.gov).

The sources of drinking water (both tap water and bottled water) 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 from the presence of animals or from human activity. Contaminants that may be present in source water include:

1. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
3. Pesticides and herbicides, which may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
4. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems.
5. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
6. PFAS, which is a group of man-made chemicals that do not readily break down in either the environment or the human body, can build up over time and lead to adverse health effects. Known sources include firefighting foam, numerous consumer products, and industrial processes.

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 particularly at risk from infections. These people should seek advice about drinking water from their healthcare providers. EPA and the Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available by emailing the EPA at [safewater@epa.gov](mailto:safewater@epa.gov).

## Health Information: Sodium

Sodium is a naturally occurring element found in soil and water and is necessary for maintaining normal bodily functions, including regulating fluids and assisting muscle and nerve function. Adequate daily total sodium intake is estimated to range from 115-750  $\frac{\text{mg}}{\text{day}}$  for infants, 325-2700  $\frac{\text{mg}}{\text{day}}$  for children, and 1100-3300  $\frac{\text{mg}}{\text{day}}$  for adults. According to MassDEP, the principal source of exposure to sodium is one's diet. A full copy of the MassDEP Sodium Notice is available upon request.

## Health Information: Lead

Lead exposure can cause serious health effects in people of all ages, especially pregnant women, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and home plumbing. The District is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time.

You can help protect yourself and your family by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Using a filter certified by an American National Standards Institute accredited certifier to reduce lead is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry, or doing a load of dishes.

If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in your water, and wish to have your water tested, contact the District's office at (978) 251-3931 or [northhelmsfordwater@outlook.com](mailto:northhelmsfordwater@outlook.com). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <https://www.epa.gov/safewater/lead>.

## Water Hardness and Aesthetics

Water hardness/softness is quantified by its concentration of minerals and is usually measured in ppm or  $\frac{\text{mg}}{\text{L}}$  of calcium carbonate. The "harder" water is: the more minerals it contains. Since our water is sourced from underground wells, it is predisposed to being hard.

Your water may occasionally have a brown/black tinge to it. Naturally occurring minerals in the water can build up inside pipes, and, later on, loosen up and flow downstream to your tap. This is an expected result of flushing water mains and hydrants. You may also experience cloudiness in your water, which is caused by tiny air bubbles (similar to carbonated gas in soft drinks); with time, the bubbles will rise to the top and dissipate.

## Hydrant Flushing Program

Our Hydrant Flushing Program facilitates water turnover and internal water main cleaning, which help maintain the condition of the distribution system, improve water quality, and ensure functional operation.

In order to keep you informed, we make every effort to post announcements on our website and Facebook page when we flush an area, but this may not always be possible during an emergency. During flushing, you may *temporarily* lose water pressure or experience discolored water. Running your cold shower/tub tap normally resolves discoloration, but we encourage you to contact our office if the problem persists. Do not run hot water if your water is discolored, as this could interfere with your hot water tank/heater.

## Cross-Connection Control and Backflow Prevention

A cross-connection is a point in the water system where potable water and a source of contamination meet. Backflow refers to the reverse flow of water within the system. If backflow occurs at a point of cross-connection, contaminants could enter the distribution system, so the District maintains a cross-connection control program to prevent this from occurring. Our certified staff conduct surveys of individual plumbing systems to determine whether a cross-connection exists and what type of backflow prevention device should be installed to protect the system and conduct tests on these devices. More information about this program is available on our website under “Cross-Connection Control/Backflow Program.”

## Summer Water Management Program: Outdoor Water Use Restrictions by Level

**Effective May 1-September 30, 2026**

This program complies with the Water Management Act to reduce water consumption by:

1. Limiting the hours of the day during which you may water
2. Limiting the number of days per week during which you may water
3. Restricting automatic sprinklers or irrigation systems
4. Implementing a complete ban on outdoor watering (in some cases)

Our water storage tanks must be at least 75% full to ensure adequate system pressure, which also maintains our fire suppression system (hydrants and fire sprinklers). Our water withdrawal allowance is limited by our permits from MassDEP, so we may not withdraw more water than permitted to compensate for outdoor watering usage.

All automatic lawn sprinkler systems require a permit from the District and Town Plumbing Inspector. All systems must have rain sensors, backflow prevention devices, and be zoned properly with timers set according to the posted Level (each Level represents different permitted usage). Signs are posted throughout the District indicating which Level of outdoor water use restriction(s) is in effect.

The three outdoor water use restriction levels are described in Table 3: District Watering Restrictions by Level.

**Table 3: District Watering Restrictions by Level**

	Level 1 (Green) 6 AM to 9 AM or 6 PM to 9 PM ONLY	Level 2 (Yellow) 6 PM to 9 PM ONLY	Level 3 (Red) No outside water use until further notice
<b>Odd Numbered Addresses on Odd Numbered Calendar Days:</b>	Automatic/non-automatic sprinkler systems	Automatic/non-automatic sprinkler systems	No outside water use until further notice
<b>Even Numbered Addresses on Even Numbered Calendar Days:</b>	Automatic/non-automatic sprinkler systems	Automatic/non-automatic sprinkler systems	No outside water use until further notice
<b>Other Permitted Watering:</b>	Handheld hoses and watering cans for small flower and vegetable gardens permitted from 6 AM to 9 PM on your assigned days	Handheld hoses and watering cans for small flower and vegetable gardens permitted from 6 AM to 9 PM on your assigned days	None permitted

## Important Information about Your Drinking Water

### Monitoring Requirements Not Met for the North Chelmsford Water District

Our water system violated a drinking water standard over the past year. Even though this was not emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

*We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During June-September 2025, we did not complete all monitoring or testing for residential lead and copper and therefore cannot be sure of the quality of our drinking water during that time.*

#### What should I do?

There is nothing you need to do at this time.

The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for these contaminants, and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were (or will be) taken.

Contaminant	No. of Required Samples	No. of Samples Taken	When all samples should have been taken	When samples will be taken
Lead	20 (Annually)	16	June-Sept. 2025	June-Sept. 2026
Copper	20 (Annually)	16	June-Sept. 2025	June-Sept. 2026

#### What happened? What is being done?

The District annually collects lead and copper (LCR) samples from 20 approved residences. In the June-September 2025 monitoring period, the District collected samples from 20 residences based on a previously approved LCR sampling plan; however, 4 of these samples were not collected from locations that are more likely to have elevated lead levels, including homes with lead solder. The District was required to update the LCR sampling plan before collecting the samples to ensure that the locations met the requirements of the Drinking Water Regulations, but failed to do so.

As a result, the District worked with the Massachusetts Department of Environmental Protection (MassDEP) to identify residences which should have been prioritized for LCR sampling in June-September 2025. Residents who reside in homes that are more likely to have elevated levels of lead were contacted to confirm participation for the June-September 2026 monitoring period.

For more information, please contact Aurora Bas at (978) 251-3931, [abas@northchelmsfordwater.com](mailto:abas@northchelmsfordwater.com), or 64 Washington St., North Chelmsford, MA.

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.*