

2022 WATER QUALITY REPORT

Douglas Water Department
Douglas, Massachusetts
DEP PWSID #2077000

This report is a snapshot of drinking water quality that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards. We are committed to providing you with information because informed customers are our best allies.

Public Water System Information

Address: 29 Charles Street
Contact Person: Robert Sullivan
Telephone: (508) 476-2400
Fax: (508) 476-4012
Email: rsullivan@douglas-ma.gov
Website: www.douglas-ma.gov



Glen Street Pump Station

A MANDATORY WATER BAN IN EFFECT

A mandatory water ban is in effect from May 1st through September 30. No nonessential outdoor water use is allowed between the hours of 9:00 am – 5:00 pm. For more information please visit our website: <https://www.douglas-ma.gov/228/Water-Ban>

*Robert Josey (Chairman) Keith Bloniasz (Secretary)
Colin Haire (Vice Chairman), Robert Sullivan (Systems Manager)*

Water System Improvements

Our water system is routinely inspected by the Department of Environmental Protection (DEP). The DEP inspects our system for its technical, financial, and managerial capacity to provide safe drinking water to you. To ensure that we provide the highest quality of water available, your water system is operated by a Massachusetts Certified Operator who oversees the routine operations of our system. In 2021 we upgraded approximately 1300 ft. of 8" CI water main to 16" DI water main in North street, 3000 ft. of 6" CI with 12" DI in Gilboa Street. and extended 3000 ft. in Lackey Dam Road.

Opportunities for Public Participation

If you would like to participate in discussions regarding your water quality, you may attend the following meetings or educational events: The Water/Sewer Commission meets the first Tuesday of each month at 7:00 P.M., in the office of the WWTF, 29 Charles Street. Please feel free to participate in these meetings, or call Robert Sullivan if you have any questions about your water at (508) 476-2400, or call the EPA/CDC Safe Drinking Water Hotline (800) 426-4791, or on

2022 WATER QUALITY TESTING RESULTS

Lead & Copper	Date(s) Collected	90 th Percentile	Action Level	MCLG	# of Sites sampled	# of Sites Above Action Level	Violation	Possible Source of Contamination
Lead (ppb)	2022	2.4	15	0	24	0	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	2022	0.29	1.3	1.3	24	0	No	Corrosion of household plumbing systems; Erosion of natural deposits

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Regulated Contaminants	Date(s) Collected	Highest Detect Value	Range Detected	MCL	MCLG	Violation	Possible Source of Contamination
Inorganic Contaminants							
Barium (ppm)	4/1/20	0.018	0.0– 0.018	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate (ppm)	04/05/22	2.4	1.1– 2.4	10	10	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Perchlorate (ppb)	08/04/22	0.24	0.18—0.24	2.0	n/a	No	Rocket Propellants, Fireworks, Munitions, Blasting Agents

Disinfection Containinants								
Total Trihalomethanes(TTHMs)(ppb)		8/08/2022		5.6	5.3 – 5.6	80	n/a	No
Haloacetic Acids (HAA5s) (ppb)		8/08/2022		2.4	2.2 – 2.4	60	n/a	No
Chlorine (ppm)		5 times a month		0.60	0.0 – 0.60	4	4	No
		Byproduct of Drinking water chlorination						
		Byproduct of Drinking water chlorination						
		Water additive used to control microbes						

Regulated Contaminants	Date(s) Collected	Detect Result or range	Highest Quarterly Average	MCL	Violation	Possible Source of Contamination	Health Effects
PFAS6 (ppt)	2022	0 - 2.9	2.9	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.

Unregulated Contaminants	Date(s) Collected	Highest Detect Value	Range Detected	Average Detected	SMCL	ORSG	Possible Source of Contamination
Sodium (ppm)	4/1/20	30	27 –30	n/a	-	20	Road salting; erosion of natural deposits
Perflourobutane sulfonic acid(PFBS) (ppt)	2022	3.0	ND - 3.00	n/a		†	
Perflourohexanoic acid (PFHxA) (ppt)	2022	2.46	ND - 2.46	n/a		†	

Sodium is a naturally-occurring common element found in soil and water. It is necessary for the normal functioning of regulating fluids in human systems. Some people, however, have difficulty regulating fluid volume as a result of several diseases, including congestive heart failure and hypertension. The guideline of 20 mg/L for sodium represents a level in water that physicians and sodium sensitive individuals should be aware of in cases where sodium exposures are being carefully controlled. For additional information, contact your health care provider, your local board of health or the Massachusetts Department of Public Health, Bureau of Environmental Health Assessment at 617-624-5757.

†There is no ORS Guideline for this compound.

DOUGLAS WATER DEPARTMENT



Robert Sullivan

Stephen Theriault

Peter Higley

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Adam Furno



Lee Bloniasz

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SUBSTANCES FOUND IN SOURCE WATER

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 resulting from the presence of animals, or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants - such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

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 and farming.

Pesticides and Herbicides - which may come

from a variety of sources such as agriculture, urban stormwater runoff and residential uses.

Organic chemical contaminants - including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and residential uses.

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

In order to ensure that tap water is safe to drink, the Department of Environmental Protection (DEP) and U.S. Environmental Protection Agency (EPA) 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 (DPH) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

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