

SAMPLING RESULTS

Over the course of this year the Walpole Water Department conducted more than 500 water quality tests looking for bacteria, nitrates, organics, and other contaminants, such as total trihalomethanes. We have compiled the table below to show what substances were detected in our drinking water during 2014. Even though all of the substances listed below are under the Maximum Contaminant Level (MCL) set by the U.S. EPA, we feel that it is important that you know exactly what was detected and how much of the substance was present in the water.

The state allows us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data is included, along with the year in which the sample was taken.

REGULATED SUBSTANCES

Substance (Units)	Year Sampled	MCL MRDL	MCLG (MRDLG)	Highest Amount Detected	Range (Low-High)	Violation	Typical Source
Simazene (ppb)	2013	4	4	0.18	ND -0.18	No	Herbicide Runoff
Barium (ppm)	2014	2	2	.012	N/A	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Barium (ppm)	2013	2	2	.011	N/A	No	
Chlorine ⁴ (ppm) Total	2014	[4]	[4]	1.27	1.18 – 1.37	No	Water additive used to control microbes
Chlorine ⁴ (ppm) Free	2014	[4]	[4]	0.09	.08 – .11	No	Water additive used to control microbes
Fluoride (ppm)	2014	4	4	1.12	0.1 – 1.12	No	Water additive which promotes strong teeth
Nitrite (ppm)	2013	1	1	0.08	ND – .08	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate (ppm)	2014	10	10	0.80	0.72 – 0.80	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Perchlorate(ppb)	2014	2	NA	0.17	0.12 - 0.17	No	Inorganic chemicals used as oxidizers in solid propellants for rockets, missiles, fireworks and explosives

STAGE 2 DBPR³

	MCL MRDL	MCLG (MRDLG)	Date	Location	Range (Low-High)	LRAA	Violation	Typical Source
TTHMs [Total Trihalomethanes] (ppb)	80	N/A	2014 Quarterly	Main Street	20-60.9	31.3	No	By-Product of
	80	N/A		Ridge Road	31-46.5	40.1	No	Drinking
	80	N/A		High Street	29-53.8	39.3	No	Water
	80	N/A		Boston Prov. Hwy	17.1-23.4	20.1	No	Disinfection
Haloacetic Acids [HAA] (ppb)	60	N/A	2014 Quarterly	Main Street	12.8-42.8	21.8	No	By-Product of
	60	N/A		Ridge Road	17.7-32.5	25.7	No	Drinking
	60	N/A		High Street	15.7-44	29.7	No	Water
	60	N/A		Boston Prov. Hwy	12.1-21.2	18.2	No	Disinfection

Tap water samples were collected for lead and copper analysis from sample sites throughout the community

Substance (Units)	Year Sampled	Action Level	MCLG	Amount Detected (90 th Percentile)	Sites Above AL/Total Sites	Violation	Typical Source
Copper (ppm)	2012	1.3	1.3	0.108	0/30	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	2012	15	0	2	0/30	No	Corrosion of household plumbing systems; Erosion of natural deposits

SECONDARY SUBSTANCES

Substance (Units)	Year Sampled	SMCL	MCLG	Highest Amount Detected	Range (Low-High)	Violation	Typical Source
Chloride (ppm)	2014	250	N/A	110	68 -110	No	Runoff/leaching of natural deposits
Sulfate (ppm)	2014	250	N/A	10	N/A	No	Runoff/leaching of natural deposits; Industrial wastes
Total Dissolved Solids (TDS) (ppm)	2014	500	N/A	250	230 - 250	No	Runoff/leaching of natural deposits

UNREGULATED SUBSTANCES¹

Substance (Units)	Year Sampled	Highest Amount Detected	Range (Low-High)	Typical Source
Bromoform (ppb)	2014	0.7	ND – 0.7	By-product of drinking water disinfection
Chloroform (ppb)	2014	52	3.3 – 52	By-product of drinking water disinfection
Dibromochloromethane (ppb)	2014	4.4	1.0 – 4.4	By-product of drinking water disinfection
Bromodichloromethane (ppb)	2014	15	4.8 – 15	By-product of drinking water disinfection
Sodium ² (ppm)	2014	29	N/A	Erosion of natural deposits and road de-icing agents
Sodium ² (ppm)	2013	49	N/A	

Unregulated Contaminant Monitoring Rule 3 (UCMR3)¹

Contaminant	Year Sampled	Highest Amount Detected	Range (Low – High)	Sources
Vanadium (ppb)	2014	0.3	ND – 0.3	Naturally occurring element metal
Chlorate (ppb)	2014	350	140 – 350	Agricultural defoliant. Drinking water disinfectants.
Chromium (ppb)	2014	0.4	ND – 0.4	Erosion of natural deposits. Steel or pulp mills.
Hexavalent Chromium (ppb)	2014	0.24	0.06 – 0.24	Naturally occurring used in making steel and alloys
Strontium (ppb)	2014	170	120 - 170	Naturally occurring element
1, 4, Dioxane (ppb)	2014	0.11	ND – 0.11	Stabilizer for chlorinated solvents

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

Sodium sensitive individuals, such as those experiencing hypertension, kidney failure or congestive heart failure should be aware of the sodium levels where exposures are being carefully controlled. The Massachusetts Office of Research and Standards has established a guideline of 20 ppm for sodium.

LRAA – Locational Running Annual Average

Running Annual Average

Source Water Assessment

The Massachusetts Department of Environmental Protection has completed a Source Water Assessment and Protection (SWAP) report for the Town of Walpole’s water supply. The report contains information relative to land uses in the water supply areas of both the Mine Brook and School Meadow Brook aquifer wells, which are highly susceptible to potential contaminants. It also contains several recommendations including the use of best-management practices and the performance of regular watershed inspections. These recommendations are being addressed through annual sanitary surveys of the aquifer’s areas and the management of storm water discharges. As a member of the community, you can assist by limiting the use of pesticides and fertilizers on your lawn and by properly disposing of hazardous household chemicals. Anyone who wishes to read the report in its entirety may do so by visiting the water or health department offices located in the Town Hall or by going online at www.mass.gov/dep/water/drinking/3307000.pdf. For more information call the Walpole Water Department at (508) 660-7309

To ensure that tap water is safe to drink, the Department of Environmental Protection (Department) and the U.S. Environmental Protection Agency (U.S. EPA) prescribe regulations limiting 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, which 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 these contaminants does not necessarily indicate that the water poses a health risk.

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 resulting from the presence of animals or from human activity. Substances 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, or wildlife; Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; Pesticides and Herbicides which may come from a variety of sources, such as agriculture, urban storm water runoff, and residential uses; Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and which may also come from gas stations, urban storm water runoff, and septic systems; Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA’s Safe Drinking Water Hotline at (800) 426-4791

Quality First

As we enter our 120th year of providing public water service, we are once again proud to present our annual water report. As in years past, we are committed to delivering the best-quality drinking water possible and remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and demand management.

We encourage you to share your thoughts with us on the information contained in this report. Should you ever have any questions or concerns, we are always available to assist you.

The Walpole Water Department is located at the Town Hall, 135 School St. For more information regarding hours of operation, the content of this report, or any other questions related to your drinking water, please call Rick Mattson, Superintendent of Sewer and Water, at (508) 660-7309.

Important Health Information

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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or <http://water.epa.gov/drink/hotline>.

Community Participation

The Board of Sewer & Water Commissioners holds regularly scheduled meetings on the second and fourth Monday of each month. Those who wish to attend or participate in the meetings should look for postings in the Town Hall, on the website, or call the secretary for details at (508) 660-7309. The public is invited to attend all meetings.

Lead and Drinking Water Educational Statement

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. We are 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 Drinking Water Hotline or at www.epa.gov/safewater/lead.

Where Does My Water Come From?

The water supply for the Town of Walpole consists entirely of groundwater, which is drawn from two underground water formations called aquifers. These aquifers were created thousands of years ago at the end of the Great Ice Age.

The School Meadow Brook Aquifer, located in the southern section of town, has ten wells. The Mine Brook Aquifer, located in the west-northwestern section of town has four sets of operational wells.

As an alternative source of water, Walpole has interconnections with the towns of Foxboro and Norwood. These connections which are located on Washington Street, Water Street, and Union Street, have not been used in recent years; however, they are maintained on a regular basis to ensure their availability if needed.

Outdoor Water Tips and Facts

If you step on your lawn and the grass springs back, it does not need to be watered.

The best time to water is early morning (4 am to 7 am). You can lose as much as 30% of water to evaporation by watering midday.

An irrigation system should be checked each spring before use to make sure it was not damaged by frost.

Town of Walpole Water
Department
135 School Street
Walpole, MA 02081

POSTAL PATRON
WALPOLE, MA

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2014
WATER
QUALITY
ANNUAL
REPORT



Water Testing Performed in 2014
By the Town of Walpole Water Department

Mandatory Odd/Even Water Management Policy

Effective May 4, 2015 all use of automatic irrigation systems and any type of lawn sprinkler shall comply with the odd/even water system.

Properties with even numbered street addresses will be allowed to use irrigation systems and sprinklers on even calendar days and properties with odd numbered street addresses will be allowed to use irrigation systems and sprinklers on odd calendar days. The use of sprinklers, automatic or other is prohibited between the hours of 9:00 am and 5:00 pm on ALL days. Handheld watering of vegetable and flower gardens, and car washing with the use of a hose equipped with a spring loaded nozzle is unrestricted and may be performed on any day or time.

This policy **IS MANDATORY** and shall remain in effect until October 5, 2015. Violators of this policy are subject to fines or other enforcement actions, as determined by the Board of Sewer & Water Commissioners.

While this action may initially be sufficient to address the increased demand, more drastic measures and stringent restrictions up to and including a total ban on outside water use may need to be imposed in moving forward should conditions warrant.

It is strongly suggested that extensive landscaping such as reseedling or sodding of lawns not take place during this time period as no waivers to this policy will be granted.

We regret any inconvenience that this action may cause and thank you for your anticipated cooperation

Indoor Water Tips and Facts

Leaks can account for an average of 1337 cubic feet (10,000 gallons) of water wasted in the home every year which is enough to fill a backyard swimming pool.

A leaky faucet that drips one drip per second can waste more than 401 cubic feet (3,000 gallons) per year.

Fixing easily corrected household water leaks can save homeowners more than 10% on their water bill.