

2014 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

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Glen Street Pump Station



Robert Josey, Keith Bloniasz, Colin Haire, Robert Sullivan

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 2013 telemetry equipment was upgraded to improve operation control.

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 the web at www.madwep.org.

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:
[www.douglasma.org/index.php/pages/committees/
water_sewer_department](http://www.douglasma.org/index.php/pages/committees/water_sewer_department)

2014 WATER QUALITY TESTING RESULTS

| Microbial Results | Highest # Positive in a Month | Total # of Positive for the year | MCL | MCLG | Violation | Possible Source of Contamination |
|--------------------------|--------------------------------------|---|------------|-------------|------------------|---|
| Total Coliform Bacteria | 12 | 15 | 1 | 0 | YES | Naturally present in the environment |
| Fecal Coliform or E.coli | 0 | 0 | * | 0 | No | Human and animal fecal waste |

*Compliance with the Fecal Coliform/E.coli MCL is determined upon additional repeat testing. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present.

| Lead & Copper | Date(s) Collected | 90th Percentile | Action Level | MCLG | # of Sites sampled | # of Sites Above Action Level | Violation | Possible Source of Contamination |
|--------------------------|--------------------------|-----------------------------------|---------------------|-------------|---------------------------|--------------------------------------|------------------|--|
| Lead (ppb) | 10/2013 | 5 | 15 | 0 | 14 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits |
| Copper (ppm) | 10/2013 | 0.68 | 1.3 | 1.3 | 14 | 0 | No | Corrosion of household plumbing systems; Erosion of natural deposits |

| Regulated Contaminants | Date(s) Collected | Highest Detect Value | Range Detected | MCL | MCLG | Violation | Possible Source of Contamination |
|-------------------------------|--------------------------|-----------------------------|-----------------------|------------|-------------|------------------|---|
| Inorganic Contaminants | | | | | | | |
| Barium (ppm) | 4/07/14 | 0.012 | 0.0056–0.012 | 2 | 2 | No | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Nitrate (ppm) | 04/07/14 | 2.4 | 1.6 - 2.4 | 10 | 10 | No | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits |
| Perchlorate (ppb) | 09/15/2014 | 0.54 | 0.17—0.54 | 2.0 | n/a | No | Rocket Propellants, Fireworks, Munitions, blasting agents |

| Unregulated Contaminants | Date(s) Collected | Highest Detect Value | Range Detected | Average Detected | SMCL | ORSG | Possible Source of Contamination |
|---------------------------------|--------------------------|-----------------------------|-----------------------|-------------------------|-------------|-------------|---|
| Sodium (ppm) | 4/07/14 | 21 | 20 –21 | n/a | - | 20 | Road salting; erosion of natural deposits |
| Sulfate (ppm) | 4/07/14 | 8.73 | 8.3 - 9.7 | 9.0 | 250 | 250 | Natural Sources |

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.

Compliance with Drinking Water Regulations:

In accordance with DEP requirements, the Water Department collects samples from each water source, storage tank, and various user taps on a monthly basis. In June, and November 2014 Total Coliform was detected. Total Coliform was detected in June the initial sample collected from the Franklin Street tank, in accordance with the USEPA's January 1991 Total Coliform Rule, and DEP requirements, the Water Dept collected additional samples to assess the extent of total coliform within the distribution system, and to determine whether escherichia coli (E.Coli) bacteria was present. In conjunction with additional sampling, the Water Dept chlorinated the distribution system in accordance with DEP requirements. Total Coliform and E. Coli were not detected in additional samples collected following disinfection activities. In November 2014 Total Coliform was detected in the initial sample collected from the Franklin Street tank, the Old Town Hall, and the Highway Department, in accordance with the USEPA's January 1991 Total Coliform Rule, and DEP requirements, the Water Dept collected additional samples to assess the extent of total coliform within the distribution system, and to determine whether escherichia coli (E.Coli) bacteria was present. In conjunction with additional sampling, the Water Dept chlorinated the distribution system in accordance with DEP requirements. Total Coliform and E. Coli were not detected in additional samples collected following disinfection activities. It was determined that a seal around the hatch of the Franklin Street tank had failed and was replaced. Total Coliform and E. Coli were not detected in additional samples collected following the repair, disinfection, and adequate flushing. All results of drinking water sample analyses other than the above mentioned Total coliform samples met applicable state and federally mandated health-based standards.

Does My Drinking Water Meet Current Health Standards?

Through routine treatment, monitoring, and system maintenance, we are committed to providing you with safe, potable, and palatable drinking water. Other than bacteria detected in samples collected during June and November 2014 (as discussed above), results of drinking water sample analyses met applicable state and federally mandated health-based standards.

Do I Need To Be Concerned About Certain Contaminants Detected In My Water?

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.

DOUGLAS WATER DEPARTMENT



This institution is an equal opportunity provider and employer



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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).