# 2022 Consumer Confidence Report For Dunstable Water Department Dunstable, Massachusetts MASSDEP PWSID # 2081000

This report is a snapshot of the 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 this information because informed customers are our best allies.

#### PUBLIC WATER SYSTEM INFORMATION

Address: 511 Main Street, Dunstable, Massachusetts, 01827

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#### Introduction:

The Dunstable Water Department (DWD) is pleased to present our Annual Report on the quality of the water that was delivered to you in 2022. This report meets the Federal Safe Drinking Water Act (SDWA) requirement for "Consumer Confidence Reports" and contains information on the source of our water, its constituents, and the health risks associated with any contaminants.

In 2022, the DWD supplied more than 9 million gallons of potable water through the distribution system to approximately 102 customers. The DWD ensured that the operation and maintenance of the Town's two pumping stations, water storage tank, water supply wells, water mains and fire hydrants were conducted in compliance with EPA and MassDEP requirements. The DWD ensures the water provided meets all federal, state and local regulations for safe drinking water.

## **Maintaining Water Quality**

The Dunstable Water Department continuously strives to produce the highest quality water possible to meet or surpass every water quality standard. We monitor both our sources and distribution system very closely. The standards we operate under were enacted by the U.S. Congress as the Safe Drinking Water Act in 1974 and were amended in 1986 and 1996.

In order to ensure tap water is safe to drink, the EPA and MASSDEP prescribe regulations that limit the concentration of certain contaminants in water provided by public water systems. 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.

## **Opportunities for Public Participation**

#### Monthly Meetings

The Water Department typically meets the 4<sup>th</sup> Wednesday of each month at 6:00 pm at the Dunstable Town Hall. The meeting notices are published 48-hours in advance on the Town's website. The public is welcome at these meetings.

#### Contact Us

If you have any questions about your water quality, the information contained in this report or your water service in general; please call the Dunstable Water Department office at: 978-649-4514 x249, typical hours are Monday through Thursday 8:00 AM to 4:00PM. You may also contact us at: <u>water@dunstable-ma.gov</u>

Fax: 978-649-8893 After hours and on weekends call— 978-433-2737

Board of Water Commissioners John O'Brien - Chair Mathew Morton - Commissioner Dave Tully III - Commissioner

## YOUR DRINKING WATER SOURCE

# Where Does My Drinking Water Come From?

The Dunstable Water Department (DWD) uses groundwater as the source of its water. There are two wells located off Main Street that provide water to the center of the town. These wells are named Salmon Brook Well #1 and Well #2. The wells are approximately 90 feet deep, gravel packed, with the current capacity to pump 250 gallons per minute. In 2022, the system included approximately 3 miles of water mains, 102 services, and less than 1000 overall individual users. Your water is provided by the following sources listed below:

Source Name	ne MassDEP Source		Location of Source		
Salmon Brook Well #1	2081000-02G	Groundwater	711 Main Street		
Salmon Brook Well #2	2081000-03G	Groundwater	711 Main Street		

## Is My Water Treated?

The water system staff makes every effort to provide you with safe and clean drinking water. To improve the quality of the water delivered to you, Potassium Hydroxide (KOH) is added to increase the pH of the groundwater, which is naturally below the MassDEP standards.

The water quality of our system is constantly monitored by us and the MassDEP to determine the effectiveness of existing water treatment and to determine if any additional treatment is required.

The water system is checked daily for pH in several locations and sampled for bacteria each month from each source, the water storage tank and several distribution locations. Additional chemical samples are taken as required based on the MassDEP sampling schedule.

## How Are These Sources Protected?

The MassDEP has prepared a Source Water Assessment Program (SWAP) Report for the water supply source serving the Dunstable Water Department. The report assesses the susceptibility of public water supplies to contamination and makes recommendations. The report is available at the following link:

https://www.mass.gov/doc/dunstable-water-department-swap-report/download. If you have any questions, please contact the Dunstable Water Department at 978-649-4514.

A susceptibility ranking of <u>high</u> was assigned to all wells in our system by the MassDEP and they meet all US Environmental Protection Agency (EPA) and MassDEP drinking water quality standards. The town of Dunstable Water Department in concert with its certified operator, the Pepperell Water Department, is addressing the concerns as stated in the SWAP Report. Should you have questions or concerns please do not hesitate to contact us.

## What Can Be Done To Improve Protection?

The SWAP report recommends:

- Continuing to inspect the Zone I regularly, and when feasible, remove any non-water supply activities.
- Educate residents on ways they can help you to protect drinking water sources.
- Work with emergency response teams to ensure that they are aware of the storm water drainage in your Zone II and to cooperate on responding to spills or accidents.
- Work with horse owners in your protection areas to make them aware of your water supply and to encourage the use of a NRCS farm plan to protect water supplies.
- Develop and implement a Wellhead Protection Plan.

Residents can help protect sources by:

- Practicing good septic system maintenance.
- Supporting water supply protection initiatives.
- Taking hazardous household chemicals to hazardous materials collection days.
- Contacting the water department or Board of Health to volunteer for monitoring and education outreach to schools.

• Limit pesticide and fertilizer use, etc.

## SUBSTANCES FOUND IN TAP 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:

<u>Microbial contaminants</u> -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.

<u>Pesticides and herbicides</u> -which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

<u>Organic chemical contaminants</u> -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 septic systems.

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 (MassDEP) and U.S. Environmental Protection Agency (EPA) prescribe regulations that limit the concentration 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).

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 water service lines and plumbing. The DWD 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 Drinking Water Hotline or at <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

## **IMPORTANT DEFINITIONS**

<u>Maximum Contaminant Level (MCL)</u> – 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.

<u>Maximum Contaminant Level Goal (MCLG)</u> – 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.

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

<u>90<sup>th</sup> Percentile</u> – Out of every 10 homes sampled, 9 were at or below this level.

<u>Secondary Maximum Contaminant Level (SMCL)</u> – These standards are developed to protect the 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.

<u>Massachusetts Office of Research and Standards Guideline (ORSG)</u> – 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.

<u>Treatment Technique (TT)</u> – A required process intended to reduce the level of a contaminant in drinking water.

Running Annual Average (RAA) – The average of four consecutive quarter of data.

<u>Maximum Residual Disinfectant Level (MRDL)</u> -- The highest level of a disinfectant (chlorine, chloramines, chlorine dioxide) 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 (chlorine, chloramines, chlorine dioxide) below which there is no known expected risk to health.

MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

ppm = parts per million, or milligrams per liter (mg/l)

- ppb = parts per billion, or micrograms per liter (ug/l)
- ppt = parts per trillion, or nanograms per liter
- pCi/l = picocuries per liter (a measure of radioactivity)
- NTU = Nephelometric Turbidity Units
- ND = Not Detected
- N/A = Not Applicable

mrem/year = millimrems per year (a measure of radiation absorbed by the body)

# WATER QUALITY TESTING RESULTS

## What Does This Data Represent?

The water quality information presented in the table is from the most recent round of testing done in accordance with the regulations. All data shown was collected during the last calendar year unless otherwise noted in the table.

Microbiological									
Bacteria	MCL / TT	MCLG	Value	Date	Violation (Y/N)	Possible Sources			
E. coli	MCL	0	Positive ( <i>E. coli)</i>	9/14/2022	Y	Human and animal fecal waste			
* Dunstable Water detected e_coli in a water sample following a total coliform-positive routine sample. More information									

\* Dunstable Water detected e. coli in a water sample following a total coliform-positive routine sample. More information about this situation is provided in the Situation section below.

On September 14, 2022, we were informed that two of our routine total coliform samples collected on September 13,2022 was total coliform positive (TC+). As required by the Revised Total Coliform Rule, we collected repeat samples from the distribution system on September 14, 2022, and had them analyzed. One of the six samples was positive for e. coli (EC+).

• Inadequately treated or inadequately protected water may contain disease-causing organisms. These organisms can cause symptoms such as diarrhea, nausea, cramps and associated headaches. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, some of the elderly, and people with severely-compromised immune systems.

In response, we hand-delivered notices to all of our customers within 24 hours of learning of this EC+ sample. We also conducted extensive system flushing and temporary water chlorination of the system during the immediate time after the EC+ occurrence.

We were required to complete a Level 2 assessment because e. coli was identified in the water system. A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an e. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system.

In addition, we were required to take corrective actions to address a sanitary defect that was found during the assessment, and we completed these actions. The Dunstable Water Department determined the sanitary defect to be associated with a missing tank gasket located on the top of the Pleasant Street tank. We implemented required corrective actions established by the MassDEP to address the defect. We developed a plan with the MassDEP and installed a new tight-fitting gasket atop the tank.

Bacteria	MCL / TT	MCLG	Value	Date	Violation (Y/N)	Possible Sources
Total Coliform Bacteria	TT	0	Positive	9/13/2022	Y	Human and animal fecal waste

Lead and Copper									
Regulated Contaminant	Date(s) Collected	90 <sup>TH</sup> percentile	Action Level	MCLG	# of sites sampled	# of sites above Action Level	Possible Source of Contamination		
Lead (ppb)	9/23/2022- 9/27/2022	2	15	0	20	1	Corrosion of household plumbing systems; Erosion of natural deposits		
Copper (ppm)	9/23/2022- 9/27/2022	0.519	1.3	1.3	20	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives		

Inorganic Compounds							
Regulated Contaminant	Date(s) Collected	Highest Result or Highest Running Average Detected	Range Detected	MCL or MRDL	MCLG or MRDLG	Violation (Y/N)	Possible Source(s) of Contamination
Barium (ppm)	5/17/2021 6/7/2021	0.0016 Average	0.015- 0.018	2	2	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Nitrate (ppm)	5/2/2022	2.15 Average	2.0-2.3	10	10	N	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Perchlorate (ppb)	9/23/2022	ND	ND	2	N/A	Ν	Rocket propellants, fireworks, munitions, flares, blasting agents

Radioactive Contaminants									
Regulated Contaminant	Date(s) Collected	Highest Result or Highest Running Average Detected	Range Detected	MCL or MRDL	MCLG or MRDLG	Violation (Y/N)	Possible Source(s) of Contamination		
Gross Alpha (pCi/l) (minus uranium)	5/30/2017	0.2	0.2	15	0	Ν	Erosion of natural deposits		
▲ The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.									
Radium 226 & 228 (pCi/L) (combined values)	5/30/2017	0.6	0.6	5	0	N	Erosion of natural deposits		

PFAS6	PFAS6									
Date(s) Collected	Location	Range (ppt)	Avg (ppt)	MCL (ppt)	Viol ation	Violation (Y/N) Possible Source(s) of Contamination	Health Effects			
Quarterly	RW- 02G	0-3.03	1.91	20	N	Discharges and emissions from industrial and manufacturing sources associated with the production or use of these PFAS, including production of moisture and oil resistant	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			
Quarterly	RW- 03G	0-4.48	3.05	20	N	motorie and of resistant coatings on fabrics and other materials. Additional sources include the use and disposal of products containing these PFAS, such as fire-fighting foams.	PFAS may also elevate the risk of certain cancers.			

## **Unregulated and Secondary Contaminants**

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.

Unregulated Contaminants	Date(s) Collected	Result or Range Detected	Average Detected	SMCL	ORSG	Possible Source
Sulfate (ppm)	5/17/2021 & 6/7/2021	9-9.5	9.25	250	N/A	Natural sources
Sodium (ppm)	5/17/2021 & 6/7/2021	31.3- 39.5	35.4	N/A	20	Discharge from the use and improper storage of sodium- containing de-icing compounds or in water-softening agents

Secondary Contaminants	Date(s) Collected	Result or Range Detected	Average Detected	SMCL	ORSG	Possible Source
Copper (ppm)	6/7/2021	0.004	0.004	1	N/A	Naturally occurring organic material
Iron (ppm)	5/17/2021 & 6/7/2021	0.041- 0.065	0.053	0.3	N/A	Naturally occurring, corrosion of cast iron pipes

\* US EPA has established a lifetime health advisory (HA) value of 300 ppb for manganese to protect against concerns of potential neurological effects, and a one-day and 10-day HA of 1000 ppb for acute exposure.

#### **COMPLIANCE DRINKING WATER REGULATIONS**

#### **Does My Drinking Water Meet Current Health Standards?**

The Dunstable Water Department is committed to providing you with the best water quality available. With the exception of the EC+ and TC+ issues that occurred around September 14, 2022, we can report that last year your drinking water met all applicable health standards regulated by the state and federal government. More information regarding the EC+ and TC+ issues can be found on pages 4 and 5 above.

#### **Health Effects Statements**

Manganese is a naturally occurring mineral found in rocks, soil, groundwater, and surface water. Manganese is necessary for proper nutrition and is part of a healthy diet, but can have undesirable effects on certain sensitive populations at elevated concentrations. The United States Environmental Protection Agency (EPA) and MassDEP have set an aesthetics-based Secondary Maximum Contaminant Level (SMCL) for manganese of 50 ug/L (microgram per liter), or 50 parts per billion. In addition, MassDEP's Office of Research and Standards (ORS) has set a drinking water guideline for manganese (ORSG), which closely follows the EPA public health advisory for manganese.

Drinking water may naturally have manganese and, when concentrations are greater than 50 ug/L, the water maybe discolored and taste bad. Over a lifetime, the EPA recommends that people limit their consumption of water with levels over 1000 ug/L, primarily due to concerns about the possible neurological effects. Children up to one year of age should not be given water with manganese concentrations over 300 ug/L, nor should formula for infants be made with that water for longer than 10 days.

The ORSG differs from the EPA's health advisory because it expands the age group to which a lower manganese concentration applies from children less than six months of age to children up to one year of age to address concerns about children's susceptibility to manganese toxicity.

See EPA Drinking Water Health Advisory for manganese at: <u>https://www.epa.gov/sites/production/files/2014-09/documents/support\_cc1\_magnese\_dwreport\_0.pdf</u> and MassDEP Office of Research and Standards (ORSG) for manganese <u>http://www.mass.gov/eea/agencies/massdep/water/drinking/lead-and-other-contaminants-in-drinking-water.html#11</u>

## **EDUCATIONAL INFORMATION**

## Do I Need To Be Concerned about Certain Contaminants Detected in My Water?

**Manganese**- is a naturally occurring mineral found in rocks, soil and groundwater, and surface water. Manganese is necessary for proper nutrition and is part of a healthy diet, but can have undesirable effects on certain sensitive populations at elevated concentrations. The United States Environmental Protection Agency (EPA) and MassDEP have set an aesthetics-based Secondary Maximum Contaminant Level (SMCL) for manganese of 50 ug/L (micrograms per liter), or 50 parts per billion, and health advisory levels. In addition, EPA and MassDEP have also established public health advisory levels.

Drinking water may naturally have manganese and, when concentrations are greater than 50 µg/L, the water may be discolored and taste bad. Over a lifetime, EPA recommends that people drink water with manganese levels less than 300 µg/L and over the short term, EPA recommends that people limit their consumption of water with levels over 1000 ug/L, primarily due to concerns about possible neurological effects. Children up to 1 year of age should not be given water with manganese concentrations over 300 ug/L, nor should formula for infants be made with that water for longer than 10 days. See: <u>http://www.epa.gov/safewater/ccl/pdfs/reg\_determine1/support\_cc1\_magnese\_dwreport.pdf</u>.

**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.

**Perchlorate-** Perchlorate may cause adverse effects on the thyroid gland. Sensitive individuals, such as women who are pregnant or nursing, infants, children under 12, or those with hypothyroidism should be aware of perchlorate levels in water and food sources that could contain perchlorate. If you have concerns about exposure to perchlorate please consult your physician.

**Lead-** 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. The DWD is responsible for providing high quality drinking water, but cannot control the variety of materials used

in plumbing components. 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. 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 (800-426-4791) or at http://www.epa.gov/safewater/lead.

**Copper-** 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. People with Wilson's Disease should consult their personal doctor. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline at 800-426-4791.

## **Cross-Connection Control and Backflow Prevention**

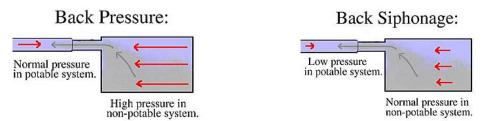
The DWD makes every effort to ensure that the water delivered to your home and business is clean, safe and free of contamination. Our staff works very hard to protect the quality of the water delivered to our customers from the time the water is extracted via deep wells from underground aquifers or withdrawal point from a surface water source, throughout the entire treatment and distribution system. But what happens when the water reaches your home or business? Is there still a need to protect the water quality from contamination caused by a cross-connection? If so, how?

#### What is a cross-connection?

A cross-connection occurs whenever the drinking water supply is or could be in contact with potential sources of pollution or contamination. Cross-connections exist in piping arrangements or equipment that allows the drinking water to come in contact with non-potable liquids, solids, or gases (hazardous to humans) in event of a backflow.

#### What is a backflow?

Backflow is the undesired reverse of the water flow in the drinking water distribution lines. This backward flow of water can occur when the pressure created by equipment or a system such as a boiler or air-conditioning is higher than the water pressure inside the water distribution line (back pressure), or when the pressure in the distribution line drops due to routine occurrences such as water main breaks or heavy water demand causing the water to flow backward inside the water distribution system (back siphonage). Backflow is a problem that many water consumers are unaware of, a problem that each and every water customer has a responsibility to help prevent.



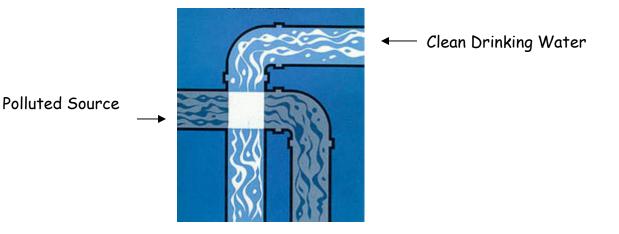
#### What can I do to help prevent a cross-connection?

Without the proper protection something as simple as a garden hose has the potential to contaminate or pollute the drinking water lines in your house. In fact over half of the country's cross-connection incidents involve unprotected garden hoses. There are very simple steps that you as a drinking water user can take to prevent such hazards, they are:

- NEVER submerge a hose in soapy water buckets, pet watering containers, pool, tubs, sinks, drains, or chemicals.
- NEVER attached a hose to a garden sprayer without the proper backflow preventer.
- Buy and install a hose bibb vacuum breaker in any threaded water fixture. The installation can be as easy as attaching a garden hose to a spigot. This inexpensive device is available at most hardware stores and home-improvement centers.
- Identify and be aware of potential cross-connections to your water line.
- Buy appliances and equipment with backflow preventers.
- Buy and install backflow prevention devices or assemblies for all high and moderate hazard connections.

If you are the owner or manager of a property that is being used as a commercial, industrial, or institutional facility you must have your property's plumbing system surveyed for cross-connection by your water purveyor. If your property has NOT been surveyed for cross-connection, contact your water department to schedule a cross-connection survey.

# What is a Cross Connection and what can I do about it?



A cross connection is a connection between a drinking water pipe and a polluted source. The pollution can come from your own home. For instance, you're going to spray fertilizer on your lawn. You hook up your hose to the sprayer that contains the fertilizer. If the water pressure drops at the same time you turn on the hose, the fertilizer may be sucked back into the drinking water pipes through the hose. This problem can be prevented by using an attachment on your hose called a backflow-prevention device.

The DWD recommends the installation of backflow prevention devices, such as a low-cost hose bib vacuum breaker, for all inside and outside hose connections. You can purchase this at a hardware store or plumbing supply store. This is a great way for you to help protect the water in your home as well as the drinking water system in your town! For additional information on cross connections and on the status of your water systems cross connection program, please contact the DWD at 978-649-4514.

## ADDITIONAL INFORMATION

#### **Corrosion Control Through pH Adjustment**

Many drinking water sources in New England are naturally corrosive (i.e. they have a pH of less than 7.0). So, the water they supply tends to corrode and dissolve the metal piping it flows through. This not only damages pipes but can also add harmful metals, such as lead and copper, to the water. For this reason, it is beneficial to add chemicals increase the pH and make the water neutral or slightly alkaline. This is done by adding any one, or a combination of several, approved chemicals. The DWD adds potassium hydroxide to the water. This adjusts the water to a non-corrosive pH. Testing throughout the water system has shown that this treatment has been effective at reducing lead and copper concentrations.

All chemicals used are approved for water treatment by one of the following organizations: National Sanitation Foundation (now known as NSF International) or UL, both accredited by the American National Standards Institute (ANSI). Chemicals must also meet performance standards established by the American Water Works Association.

#### Conclusion

The DWD is committed to providing consumers with water that meets or surpasses standards established by the state and EPA. We also want our customers to be informed of changes in water quality when they occur. If you have any questions, comments or complaints, please call the Dunstable Water Department at 978-649-4514.