



Southborough
DEPARTMENT OF PUBLIC WORKS
 147 Cordaville Road, Southborough, MA 01772
 (508)-485-1210

Public Water Supply
 # 2277000

Southborough and the MWRA are pleased to provide our customers with the 2010 Annual Water Quality Report.

SOUTHBOROUGH'S WATER SYSTEM (PWSID#2277000): The Town of Southborough purchases 100% of our water from the MWRA. The Town pumps fully treated water from the MWRA's distribution system into the Town's distribution system at the Town's two pumping stations. The Town's three water tanks control the water system. The Department of Public Works Department (DPW) manages the Town's water system. There are 4 full-time, highly dedicated, employees that comprise your DPW Water Division. The Water Commissioners are Southborough's Board of Selectmen. The Selectmen meet on Tuesday nights in the Town House Public Hearing Room. The town website, southboroughtown.com, posts the Selectmen's agendas along with water reports and other water system information. Water customers are encouraged to participate at Selectmen's meetings that discuss water issues.

WATER CONSERVATION: In an effort to meet the Water Management Act (WMA) standards and to encourage conservation, Southborough implemented a voluntary water ban for summer 2010. Summer 2010 was very dry and volunteer conservation efforts dwindled as summer progressed. The Town pumped 373 million gallons (MG) of water into our distribution system in 2010, an 11.6% increase over 2009. Southborough did not meet the WMA standard of 65 gal/day in 2010.

WATER SYSTEM MAINTENANCE: Approximately one-half of the Town's water mains, about 45 miles, was examined as part of our annual leak detection survey. The survey identified 2 hydrant leaks and 2 service leaks. In all, 4 water main breaks, 6 service leaks and 6 hydrant leaks were repaired in 2010. As usual, the Water Division performed the annual flushing program in the last week of April, to remove naturally occurring tuberculation and sedimentation. Water Division employees performed required routine maintenance throughout 2010.

WATER SYSTEM IMPROVEMENTS: Contractor's stripped and painted the Oak Hill Stand pipe (water tank) in fall 2010. After stripping the tank inspectors identified several issues with the tank's roof system and some areas of pitting. The contractor addressed these issues as part of the contract. In 2010 the Town also upgraded the Pressure Relief Valve (PRV) sites to prepare them for the 2011 SCADA control system upgrade. All 4 of the PRVs were replaced as part of the contract. The PRVs keep the two pressure areas of the Town's water system separate. The PRVs open to let water flow through when water demand in one zone is greater than the pump and storage capacity of the zone. The Town hired a contractor to complete the water main upgrade in Parkerville Road. The contractor completed the project in fall 2010.

BACKFLOW PREVENTION (CROSS CONNECTIONS): Southborough continues to enforce the Department of Environmental Protection (DEP) mandated cross connection control and prevention program under 310 CMR 22.22 through device testing and cross connection surveys. A cross connection happens when negative system pressure, usually created by high volume flows such as a main break or fire fighting, suction water back through services into the system. The Town performs cross connection surveys at businesses to ensure required backflow prevention devices are in place and tests the devices to make sure that they are working properly. Backflow devices are required on all lawn irrigation systems, even at residences.

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) NOTICES OF NON-COMPLIANCE: The DEP conducted a Sanitary Survey of Southborough's water system in March 2010. Although the Town's water system was generally in compliance with DEP regulations, the Town received Notices of Non-Compliance for 3 items. The 1st notice was due to the condition of the coating on the Oak Hill tank. At the time of the Sanitary Survey the Town was in the process of creating specifications to strip and paint the tank. As stated previously, the Town had contractors repaint the Oak Hill tank in fall 2010. The 2nd notice was due to the condition of the paint on the interior and exterior of the roof on the Clear Hill tank. The contract for the Oak Hill tank was awarded with specifications for painting the interior and exterior of the Clear Hill tank roof. Unfortunately, the weather did not allow the Clear Hill tank work to be performed in 2010. The work is scheduled for fall 2011. The 3rd notice was due to the Town's backflow device testing. In 2009 the DPW did not test every backflow device as required. The DPW's backflow tester resigned in 2009 and a contractor was brought in to perform this work in 2010. The Town met the backflow testing requirements in 2010.

WATER ANALYSIS: The DEP requires that Southborough sample the water from five locations with vinyl-lined asbestos cement pipe per year for PCE (tetrachloroethylene). The Town is also required to sample 10 sites each month for the presence of coliform bacteria and 15 sites twice a year for the presence of lead and copper. The range of PCE and total coliform results and the 90th percentile lead & copper results are below.

COMPOUND	PMCL (PCE) ALLOWED (Coliform)	DETECTION LIMIT	DETECTED LEVELS		VIOLATION
PCE (ppb)	5.0	0.5	ND		NO
Total Coliform (#100ml)	1	1	0-0		NO
COMPOUND	ACTION LEVEL	DETECTION LIMIT	90TH PERCENTILE		VIOLATION
			3/24/10	9/22/10	
Lead (ppb)	15	1.2	2.44	2.56	NO
Copper (ppb)	1300	3	119	79.5	NO

* Note: Definitions of terms and abbreviations (e.g., PMCL and MCLG, etc.) are found in the attached MWRA Annual Water Quality Report. Questions? Contact Karen Galligan, DPW Superintendent, at the DPW 508-485-1210.