



Public Water Supply  
# 2277000

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

Southborough and the MWRA are pleased to provide our customers with the 2009 Annual Water Quality Report.

**SOUTHBOROUGH'S WATER SYSTEM:**

The Town of Southborough purchases 100% of its water from the MWRA. Southborough pumps treated water from the MWRA's distribution system into our water distribution system at the Town's two pumping stations. The town's three water tanks control the water system. 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 2009. In 2009 the Town pumped 334.15 million gallons (MG) of water into our distribution system. In 2009 Southborough beat the WMA standard of 65 gal/person/day with the average Southborough resident using 62 gal of water per day, a decrease of 12 gal from the 2008 statistic.

**WATER SYSTEM MAINTENANCE:**

In 2009 all of the Town's water mains, about 87 miles, were examined as part of our annual leak detection survey. In 2009 Southborough's DPW Water Division repaired both water main breaks identified in the leak survey, repaired the 4 hydrant leaks identified in the leak survey and responded to and repaired 3 additional water main breaks and 12 service breaks. In April/May the Water Division performed the annual flushing program, which flushes water mains in order to remove naturally occurring tuberculation and sedimentation.

In February the Town received an updated Water System Master Plan. Water system improvements recommended in the updated Master Plan included projects that were funded at the 2008 Annual Town Meeting and began in 2009 such as; design and install a SCADA control system; perform water main improvements; upgrade the existing Pressure Relief Valves separating the high and low pressure systems and design upgrades for the Boland Pumping Station. The stripping and painting of the Clear Hill Standpipe, on Overlook Drive, was completed in April 2009.

The DPW Water Division continued to installed the 12 inch water main on Parkerville Road to facilitate flow to the area around Finn School. The Water Division was only able to install 140 feet of main and two hydrants in summer 2009. The project will eventually replace approximately 3000 feet of water main and will continue this summer.

**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, suctions 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.

**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	MCL	DETECTION LIMIT	DETECTED LEVELS		VIOLATION
PCE (ppb)	5.0	0.5	ND-1.0		NO
COMPOUND	ACTION LEVEL	DETECTION LIMIT	90TH PERCENTILE		VIOLATION
			3/25/09	9/25/09	
Lead (ppb)	15	1.2	3.61	5.74	NO
Copper (ppb)	1300	3	88.2	148	NO

\* Note: Definitions of terms and abbreviations (e.g., MCL and MCLG, etc.) are found in the attached MWRA Annual Water Quality Report. Questions? Contact Karen Galligan at the DPW 508-484-1210.