



DEPARTMENT OF
PUBLIC WORKS

Project: Shawsheen River Pump Station Upgrade

Contact Person: Lorraine Sander, Wastewater Superintendent

The Shawsheen River Pump Station (aka George Brown Street Pump Station) is located on the north bank of the Shawsheen River at the end of an unnamed road on the south side of George Brown Street between Harjean Road and Marilyn Road. This 5.5mgd station was constructed in 1975 and handles about 30% of the flow from the Town. An upgrade of this pump station is necessary at this time in order for the pump station to continue reliable operation due to the age of the equipment and to be able to handle both existing and projected future wastewater flows. Further contributing to the necessity for upgrades to this station was MassDEP's 2009 Sewer Extension Permit for Sewer Contract 34B, which stated that improvements to this station be completed prior to allowing any discharge from further sewer expansion projects after Sewer 34B.



Pump Station – Exterior

A main objective of this project is to ensure sufficient pumping capacity for an increase in flow due to the addition of over 10 miles of sewers from Sewer Contract 34 in East Billerica. The Brown Street Pump Station already handles significant flow from the Shawsheen River Interceptor Sewer. The Brown Street Pump Station Upgrade will serve to address part of the comprehensive control strategy to reduce fecal coliform release to the River outlined in the Shawsheen River Basin Plan and the Concord River Watershed Plan by increasing station reliability and reducing or eliminating wet and dry weather pump station overflows.



Pump Station – Interior

Improvements to the station include the addition of a new odor control system; new pumps with VFD controls; new PLC and SCADA system; improved lighting systems; new HVAC system; new generator with above ground fuel storage tank; updated electrical system; new 36" and 18" electronically actuated sluice gates; and a new piping configuration and pump bypass arrangement.

Funding for the project was approved at the spring 2008 Town Meeting. The construction contract was awarded to Methuen Construction Company for a cost of \$1,540,168.

Work started in November 2008. At this time the majority of site work is complete. The new pumps have been delivered and bypass of the station is scheduled to begin mid-November and continue for two months. There will be no service interruption during this time. Completion date for this project is scheduled for February 5, 2010.