

## **Project Descriptions for August 1, 2018**

### **Board of Trustees Meeting**

#### **Clean Water Commitments**

##### **Gloucester CW-17-24**

Gloucester is essentially an island community surrounded by ocean, marshes and beaches. Residents of Gloucester, as well as people from all over the North Shore, enjoy these natural resources on a daily basis for walking, swimming and boating. The DPW and Goose Cove pumping stations are both located in close proximity to these important resources. An evaluation of wastewater pump stations in Gloucester was completed in 2010. The evaluation determined the DPW and Goose Cove Pump Stations to have the first and second highest priority rehabilitation needs of all the 29 pump stations in the City, due to a large volume of daily flow and station age and condition. Rehabilitation of these two stations will ensure continued protection for Gloucester's important natural resources.

##### **Lawrence CW-18-09**

This project will rehabilitate and replace sewer system defects, and operational and maintenance issues, identified in the SSES report. The sewer and drainage system improvements will address structural pipe failures, reduce infiltration and inflow sources, and abate illicit cross connectors to the MS4 areas.

##### **West Springfield CW-17-30**

The sewer pump station project implements CIP recommendations including replacement of outdated pumps, controls, emergency power generators, emergency lighting, ventilation and air quality monitoring system, dry well flood alarms, heating systems, and building foundation repairs. The I/I project implements SSES recommendations including 11 sewer disconnections, 128 manhole rehabilitations including grouting, wall rehabilitation and corbel repair, 250 ft of cured-in-place liners, 600 ft of CCTV inspection, 14 spot liner repairs, and 83 sewer lateral inspections. The flood control pump station improvements implement critical electrical improvements including upgrade of main load centers, light panels, exterior lights and emergency lighting. Improved efficiencies provide better, more efficient and more cost-effective treatment.

## **Drinking Water Commitments**

### **Gloucester DW-18-03**

The Babson Water Treatment Plant (WTP) Emergency Project is designed to address issues that are currently causing unacceptable Water Treatment Plant (WTP) shutdowns. These include problems with the generator transfer switch, the actuated TWP intake valve and meter vaults, and with eels clogging the pumps and sedimentation basin blow down valves. The scope of work encompasses installation of a new generator Automatic Transfer Switch, of a new accessible vault containing a new battery backed-up intake valve and inflow meter, and a new Eel Control Vault with accessible screens and instrumentation. Ancillary work considered appropriate to complete in this project includes new meters and vaults for the Goose Cove-Babson Reservoir Connector and for the Babson Waste Line, rehabilitation of the Low Lift pumps presumed damaged from eels, and provision of a spare Low Lift pump.

## **Clean Water Agreements**

### **Gloucester CWP-17-24**

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### **Haverhill CW-17-14**

The major components of the project include: improvements to the WWTF's secondary treatment system (aeration blowers and sludge pumps/piping, as well as appurtenant electrical upgrades) which will improve the ability to meet the NPDES permit limits; upgrades to the City-wide Supervisory Control and Data Acquisition (SCADA) system, including WWTF and pump stations; upgrades at two significant pump stations to address repeated mechanical issues; and an odor control biofilter to mitigate impacts on abutting residents.

### **West Springfield CWP-17-30**

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## **Drinking Water Agreements**

### **Wayland DW-18-01**

The project consists of the replacement of 2,500 linear feet of existing 6" unlined cast iron water main with new 12" ductile iron water main on Boston Post Road in Wayland. This major transmission main provides service to Wayland Town Center. The water main is classified as being in poor condition due to its size, material, installation year, and corrosive soils. The project addresses a potential public health threat from water quality issues associated with corrosion of the water main. Replacement is required for a future interconnection with the Town of Sudbury.