

Project Descriptions for May 2, 2018

Board of Trustees Meeting

Clean Water Commitments

Nantucket CW-18-05

Emergency Sewer Force Main (FM) Assessment Project, as a consequence of catastrophic failure of 16" FM on January 4, 2018. Excavation of access pits, cleaning and television of pipeline; repair of defects, installation of air relief valves, and blow off valves, and manholes. Restoration of disturbed areas.

Drinking Water Commitments

Norton DW-14-10

The project consists of constructing a 2.5 mgd pressure filtration plant to remove high levels of iron (0.9 to 3.28 mg/l) and manganese (0.18 to 0.35 mg/l) from wells 4, 5 and 6. All three wells have combined iron and manganese levels above the sequestering limit of 1.0 mg/l. The Town has five wells, and these three provide over 75% of the Town's water. The raw water pipeline from Well 4 will be directionally drilled under the Canoe River to reach the plant. Solar panels may be installed on the roof of the plant.

Clean Water Agreements

Nantucket CW-15-26

In 2009 the Surfside WWTF underwent major renovation including treatment capacity upgrade from 2.24-mgd to 3.5-mgd (7.7 mgd peak), rehabilitation and expansion of groundwater disposal beds, and modifications to provide for higher nitrogen removal capacity. This project proposes further enhancements to both equipment operating procedures to provide the following improvements:

- Reliability: corrosion control, enhanced influent screening to preserve Membrane Bioreactors (MBRs), MBR inspection and replacement, instrumentation and SCADA improvements.
- Energy Efficiency: sludge blower cycling, piping modifications, odor control fan VFD, and MBR optimization.
- Capacity: Blower addition, nitrified recycle system.

Nantucket CW-18-05

Emergency Sewer Force Main (FM) Assessment Project, as a consequence of catastrophic failure of 16" FM on January 4, 2018. Excavation of access pits, cleaning and television of pipeline; repair of defects, installation of air relief valves, and blow off valves, and manholes. Restoration of disturbed areas.

Revere CW-17-28

The continuation of the illicit connections and sump pump detection program is important in the City's efforts to remove inflow from the sanitary sewer system. This program will continue the inspections of private homes and businesses to identify sources of inflow from sump pumps, roof leaders, roof drains, driveway drains, and yard drains.

Revere CW-17-29

The Phase IX Field Investigations and Illicit Discharge Detection and Elimination (IDDE) are vital planning projects for the City of Revere in its assessment of the City's wastewater and stormwater systems. The field investigations will include IDDE, CCTV of both drains and sewers, dye testing, smoke testing, and private building inspections. The deficiencies discovered in the system during the investigations will be addressed and corrected by the City in future construction projects.

Drinking Water Agreements**Norton DW-14-10**

The project consists of constructing a 2.5 mgd pressure filtration plant to remove high levels of iron (0.9 to 3.28 mg/l) and manganese (0.18 to 0.35 mg/l) from wells 4, 5 and 6. All three wells have combined iron and manganese levels above the sequestering limit of 1.0 mg/l. The Town has five wells, and these three provide over 75% of the Town's water. The raw water pipeline from Well 4 will be directionally drilled under the Canoe River to reach the plant. Solar panels may be installed on the roof of the plant.