

Project Descriptions for July 7, 2021

Board of Trustees Meeting

Asset Management Planning Commitment

Swampscott CW-21-05

The Town of Swampscott seeks to create an asset management plan that will improve its understanding of the existing water, drain, and sewer inventory (“assets”), develop an asset prioritization framework, develop a funding plan for capital improvement and maintenance, and identify revenue sources that will balance near-term levels of service with long-term financial goals.

Community Septic Management Program Commitment

Sharon CW-21-04

Community Septic Management Program

Clean Water Commitment

South Essex Sewerage District CW-20-35

SESD operates a regional WWTF that was originally constructed in 1972 and upgraded in the 1990s. Average daily flows at the WWTF are approximately 30 MGD, with a peak capacity of 99 MGD. The WWTF discharges effluent to Salem Sound. The primary treatment process consists of 7 underground cast-in-place concrete tanks with precast concrete roofs. The concrete surface in the headspace of the tanks has corroded over the years and has reached a point where the issue needs to be addressed. If this issue is not addressed, there is a risk that the primary clarifiers could structurally fail. The goal of this project is to restore the impacted concrete within all 7 primary clarifiers to ensure long term structural reliability of the tanks.

Drinking Water Commitment

Springfield Water & Sewer Commission DW-21-03

A new 1 million-gallon clearwell and associated backwash pump station will replace old, failing facilities that are needed to maintain reliable operation of the 60 MGD water production. The failing facilities are adversely impacting water quality being produced, contributing to MCL exceedances of haloacetic acids that has resulted in non-compliance with the Stage 2 Disinfection By-Products Rule.

Asset Management Planning Grant Agreement

Swampscott CWA-21-05

The Town of Swampscott seeks to create an asset management plan that will improve its understanding of the existing water, drain, and sewer inventory (“assets”), develop an asset prioritization framework, develop a funding plan for capital improvement and maintenance, and identify revenue sources that will balance near-term levels of service with long-term financial goals.

Community Septic Management Program Agreement

Sharon CWT-21-04

Community Septic Management Program

Clean Water Agreements

Gloucester CWP-20-40

The project includes upgrades to two below-grade wastewater pump stations (Niles Beach Pump Station and Riverside Pump Station).

Leverett CW-20-07

The Town of Leverett, a town of 1,800 residents, plans to connect approximately one dozen houses, that are downgradient of the contaminant plume that extends from the closed and capped Leverett Landfill, to the Town of Amherst public water supply as a permanent solution to this longer-term public health and housing problem. Leverett has secured Small Town Housing Choice funds to generate plans and design for the project.

Lynn Water & Sewer Commission CWP-20-50

The Lynn Water and Sewer Commission has entered into a Third Modified Consent Decree with the United States Environmental Protection Agency to implement a long-term control plan to reduce combined sewer overflow discharges to local receiving waters. The West Lynn Sewer Separation project is the first of several projects included in the plan to mitigate CSO discharges into the Lynn Harbor.

The project involves sewer separation of approximately 260 acres within the western portion of Lynn, MA as well as installation of a 114 MGD stormwater pump station with a force main out to a new or reconstructed outfall into the Lynn Harbor. The project will significantly reduce SSOs and CSOs and improve the water quality of nearby water bodies.

Revere CWP-20-27

The Phase 11 Construction Project will include the removal of inflow/infiltration (I/I) from the City's sewer system. Construction will include the redirection of public and private inflow sources discovered during Phase 10 Field Investigations., IDDE source removal, and drainage improvements. Illicit connections, including sump pumps, roof leaders, etc. will be removed from the City's sewer system in order to remove inflow and increase wastewater capacity. Construction will also include pump station improvements (both stormwater and wastewater), CIPP lining, sewer spot repairs, replacements, new sewer lines, cleaning, and additional wastewater metering.

Revere CWP-20-27-A

The Phase 11 Construction Project will include the removal of inflow/infiltration (I/I) from the City's sewer system. Construction will include the redirection of public and private inflow sources discovered during Phase 10 Field Investigations, IDDE source removal, and drainage improvements. Illicit connections, including sump pumps, roof leaders, etc. will be removed from the City's sewer system in order to remove inflow and increase wastewater capacity. Construction will also include pump station improvements (both stormwater and wastewater), CIPP lining, sewer spot repairs, replacements, new sewer lines, cleaning, and additional wastewater metering.

South Essex Sewerage District CWP-20-35

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Taunton CWP-20-19

This project is part of a complete upgrade of the Taunton Wastewater Treatment Facility (WWTF). Improvements to the WWTF are required to meet the requirements of the new NPDES discharge permit. In addition, the facility is being expanded hydraulically to accept higher flows from the new Main Lift Pumping Station, which will reduce the size and frequency of combined sewer overflows (CSOs). This application encompasses Solids Handling improvements, for inclusion on the 2020 IUP. Phase 1 upgrades are being submitted concurrent with this submittal. Phase 2 will be submitted the following year, with the intent of being included on the 2021 IUP.

Tyngsborough CWP-20-11

The project addresses pipeline and manhole rehabilitations in areas identified as contributing significant infiltration and inflow (I/I). As a Regional partner to the Lowell Regional Wastewater Utility, I/I in Tyngsborough has a direct impact to its IMA partners.

Wareham CWP-20-09

This project will construct denitrifying filters, lined equalization lagoon and lined and covered raw wastewater lagoon. The lagoons will provide equalization during wet weather events. The new filters will provide filter redundancy and the covered lagoon will reduce odors at the WPCF.

Drinking Water Agreements**Brockton DWP-20-24**

This project will work on twin 24-inch transmission mains and 36-inch transmission main from Brown's Crossing to the City limits. The work will include replacement of crossover piping and valves, replacement of transmission main gate valves and installation of hydrants.

Dracut Water Supply District DWP-20-18

This project is intended to reduce iron and manganese levels in the Dracut Water Supply District's Tyngsborough wells to below the SMCL and ORSG limits. The project also includes a new sole transmission main and a water storage tank to increase capacity to meet current demands and create redundancy.

Dudley DWP-20-25

This project will allow Dudley to meet maximum-day demands and provide redundancy by connecting a replacement well at pump station 1. This project also includes replacement of approximately 8,600 linear feet of asbestos concrete water mains and the rehabilitation of 2 water storage tanks per MassDEP's recommendations noted in the 2017 sanitary survey.

Fall River DWP-20-13

This project is part of the annual cast iron water main and lead service replacement program. Phase 20 water main improvements include the rehabilitation or replacement of approximately 11,495 linear feet of cast iron water mains and 19 lead services.

Springfield Water & Sewer Commission DWP-20-01

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Springfield Water & Sewer Commission DWP-21-03

A new 1 million-gallon clearwell and associated backwash pump station will replace old, failing facilities that are needed to maintain reliable operation of the 60 MGD water production. The failing facilities are adversely impacting water quality being produced, contributing to MCL exceedances of haloacetic acids that has resulted in non-compliance with the Stage 2 Disinfection By-Products Rule.