Project Descriptions for September 2, 2020

Board of Trustees Meeting

Asset Management Program Commitment

Buzzards Bay Water DW-20-08
The Buzzards Bay Water District proposes to develop a thorough Asset Inventory database for horizontal and vertical assets to develop preventative maintenance schedules and identify assets in need of replacement. In addition, the District will develop a comprehensive capital improvement plan to identify other priority assets in need of rehabilitation or replacement.

Community Septic Management Program Commitment

Pembroke CW-20-06
Community Septic Management Program

Clean Water Commitment

Gloucester CW-19-37
Various improvements are necessary at the Gloucester's Water Pollution Control Facility (WPCF or wastewater treatment plant) include the following: Replacement of the Sodium Hypochlorite Disinfection System: The original system in place since 1985 is operational; however, one of the two 4,000 gallon storage tanks leaks and has been taken out of operation. Some of the improvements include: Gravity thickener flow meters (2): New flow meters are to be added to aid in plant operation by quantifying sludge removal efficiencies and plant loadings; New SCADA node industrial computer & rotary press software: Sludge piping replacement; Bathroom vent line replacement; and Chlorine contact chamber drain line valve (2) replacement.

Drinking Water Commitments

Deerfield Fire District DW-20-09
The project consists of replacement of approximately 3,800 feet of existing water main on Greenfield Road to address water quality complaints from aged, heavily tuberculated water mains. The project includes replacement of 25 existing lead goose necks on service lines.

Littleton DW-20-07
The project will install a temporary water main to blend sources to maintain drinking water below 20 ppt for PFAS.

MWRA DW-20-02
The Weston Aqueduct Supply Main 3 (WASM 3) is an existing 10-mile, 56-inch to 60-inch diameter, steel water main that supplies the communities of Waltham, Watertown, Belmont, Arlington, Lexington, Bedford and Winchester. In addition, the pipe conveys flow to the MWRA's Intermediate High, Northern High and Northern Extra High-pressure systems. The pipe was built in the 1920's and is in need of repair due to frequent leaks and aging valves and appurtenances. It serves as a primary means of backup supply within the MWRA's distribution system in the event of a failure along the City Tunnel and City Tunnel Extension.

Peabody DW-20-10
This project will include a full rehabilitation of the City's Winona WTP and additional treatment improvements at the Coolidge WTP for lowering the manganese and TTHM levels. The Winona WTP will be fully renovated with dissolved air flotation, backwash holding tanks with recycle and residuals handling improvements. The City will install aeration systems in Winona Pond and Suntaug Lake for the control of manganese in the raw water and will perform improvements to the Cedar Grove Clearwell at the Coolidge WTP including installation of aeration for the purposes of stripping TTHMs from the finished water.

Asset Management Program Agreements

Buzzards Bay Water DWA-20-08
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Fall River DWA-19-23
The purpose of this Asset Management Project is to implement a consistent asset management program for the city of Fall River's water, wastewater, and stormwater utilities. The work will include development of an asset inventory, condition assessment and risk analysis of assets of the water system facilities, and wastewater pump stations and CSO screening and disinfection facilities; evaluation, purchase and implementation of a computerized maintenance management system for the three utilities; development of a level of service agreement for all three utilities. This work includes preparing a written management plan narrative that describes the operation of the proposed AMP to be utilized by the City's management team moving forward.

Plainville DWA-19-22
The Plainville AMP will inventory and assess the current state of the Town's water and wastewater system assets, evaluate the level of service in terms of quality, quantity, reliability and environmental standards; identify assets critical to sustaining system performance; quantify minimum life cycle costs for critical assets, operations and maintenance; and determine a long-term funding strategy to ensure high-level performance and pipe integrity. Assets considered will include pipes, joints, and associated infrastructure essential to the function of the system. In preparing the Plan, the Town and consultant will evaluate the benefit of implementing CUPSS or a similar non-proprietary software program to track assets.

Community Septic Management Program Agreement

Pembroke CWT-20-06
Community Septic Management Program

Clean Water Agreements

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Revere CWP-19-39

The Phase 10 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.

Drinking Water Agreements

Bridgewater DWP-19-17

This project includes the construction of a 1.62 MGD manganese greensand water treatment plant to treat elevated iron and manganese from the Town of Bridgewater's High Street Wells. The Town is concerned about the provided high levels of manganese to their customers based on the USEPS's health advisory for manganese. Currently, blended phosphates are added to sequester iron. This practice is not sufficient and therefore the Town is seeking to improve this water quality by constructing a new treatment facility. This project will also include an upgrade to the Town's existing water system SCADA network with a master terminal unit located at the new plant.

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New Bedford DWP-19-24
The Highway Bridge Crossing Replacement Project will continue to remedy system deficiencies and prevent serious threats to New Bedford's water system by replacing four watermains that cross under three separate bridges that cross two major highways – Interstate 195 and Route 140. Three of the four watermains are currently shut down due to leaks. The project will replace the watermains and pipe supports/hangers. This project is of utmost importance to the City to maintain safe and reliable delivery of water to its customers and protect public health.

Peabody DWP-19-15
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