

Project Descriptions for November 4, 2020

Board of Trustees Meeting

Asset Management Program Commitments

Barnstable CW-20-25

This asset management project includes inventory, condition assessment, criticality/risk analysis of assets at the Town's wastewater treatment facility. An asset management plan and 20-year asset management plan will be developed.

Melrose CW-20-08

The project will track sewer collection system maintenance activities, conditions, and repairs, for use in the decision-making process and to provide a higher level of service in a cost-efficient manner. The project will focus on pipelines, manholes, and pump stations within the sewer system. Specific tasks include improving our asset inventory by populating missing GIS attribute data, define the level of service goals and failures, identify risk and criticality factors, and develop software tools to track maintenance and repair activities and results. Training will also be provided.

Walpole DW-20-15

The Town of Walpole has completed an Asset Management Plan (AMP) but will enhance its asset inventory by expanding the depth of information and attributes assigned to inventoried assets and mapping for its drinking water system. The Town of Walpole will locate and identify isolation valves and hydrants within the distribution system and incorporate this information into the GIS system and hydraulic model. The information will be used to further plan and to attain its established Level of Service goal. for “100% compliance with USEPA secondary water standards.”

West Bridgewater DW-20-12

The West Bridgewater Water Department will develop an Asset inventory database for horizontal and vertical assets to develop preventative maintenance schedules and identify assets in need of replacement. In addition, the Water Department will develop a comprehensive Capital Improvement Plan to identify other priority assets in need of rehabilitation or replacement.

Community Septic Management Program Commitments

Bridgewater CW-20-37

Community Septic Management Program

Easton CW-20-10

Community Septic Management Program

Clean Water Commitment

Gloucester CW-20-38

This project will create a Comprehensive Wastewater Management Plan (CWMP) for the City of Gloucester. The CWMP will consist of three phases. Phase I includes an assessment of existing conditions, projection of future wastewater disposal needs, and a needs assessment for the entire City study area. In Phase II, alternative means of handling the wastewater are developed to address the needs identified in Phase I. Phase III involves a detailed evaluation of the alternatives identified, and a recommendation of a specific wastewater management plan. A draft and a final CWMP report will be prepared, submitted and reviewed for approval by the City and MassDEP.

Drinking Water Commitment

Ayer DW-20-04

The project will construct a PFAS treatment process for the Spectacle Pond Water Treatment Plant. This will be the second PFAS treatment project implemented in the Town. Both Wells' No. 1A and 2A are anticipated to exceed MassDEP's future HAL of 20 ppt. The new PFAS treatment process, to be confirmed by bench-scale testing, is conceptually designed with anion exchange for its demonstrated effectiveness at the Grove Pond WTP and treatment and operational consistency across both WTPs. This treatment addition will lower the total concentration of the five PFAS below the anticipated HAL.

Asset Management Program Agreements

Barnstable CWA-20-25

This asset management project includes inventory, condition assessment, criticality/risk analysis of assets at the Town's wastewater treatment facility. An asset management plan and 20-year asset management plan will be developed.

Melrose CWA-20-08

The project will track sewer collection system maintenance activities, conditions, and repairs, for use in the decision-making process and to provide a higher level of service in a cost-efficient manner. The project will focus on pipelines, manholes, and pump stations within the sewer system. Specific tasks include improving our asset inventory by populating missing GIS attribute data, define the level of service goals and failures, identify risk and criticality factors, and develop software tools to track maintenance and repair activities and results. Training will also be provided.

Walpole DWA-20-15

The Town of Walpole has completed an Asset Management Plan (AMP) but will enhance its asset inventory by expanding the depth of information and attributes assigned to inventoried assets and mapping for its drinking water system. The Town of Walpole will locate and identify isolation valves and hydrants within the distribution system and incorporate this information into the GIS system and hydraulic model. The information will be used to further plan and to attain its established Level of Service goal. for “100% compliance with USEPA secondary water standards.”

West Bridgewater DWA-20-12

The West Bridgewater Water Department will develop an Asset inventory database for horizontal and vertical assets to develop preventative maintenance schedules and identify assets in need of replacement. In addition, the Water Department will develop a comprehensive Capital Improvement Plan to identify other priority assets in need of rehabilitation or replacement.

Community Septic Management Program Agreements**Bridgewater CWT-20-37**

Community Septic Management Program

Easton CWT-20-10

Community Septic Management Program

Clean Water Agreements**Chicopee CWP-19-42**

Project includes sewer rehabilitation measures and other corrective action in the Meadowbrook Underdrain area to eliminate contamination of surface waters reduce infiltration and inflow and improve/renovate conveyance. The Town is under an EPA Administrative Order on Consent to complete the work included in this project.

Gloucester CW-20-38

This project will create a Comprehensive Wastewater Management Plan (CWMP) for the City of Gloucester. The CWMP will consist of three phases. Phase I includes an assessment of existing conditions, projection of future wastewater disposal needs, and a needs assessment for the entire City study area. In Phase II, alternative means of handling the wastewater are developed to address the needs identified in Phase I. Phase III involves a detailed evaluation of the alternatives identified, and a recommendation of a specific wastewater management plan. A draft and a final CWMP report will be prepared, submitted and reviewed for approval by the City and MassDEP.

New Bedford CWP-17-16-A

The pumping station upgrades involved in this project are for three pumping stations in the City of New Bedford that are high priority for the near future. These recommendations are based on an Integrated Plan currently being developed. Upgrades are necessary to ensure adequate system capacity and effective wastewater treatment.

Drinking Water Agreement

Ayer DWP-20-04

The project will construct a PFAS treatment process for the Spectacle Pond Water Treatment Plant. This will be the second PFAS treatment project implemented in the Town. Both Wells' No. 1A and 2A are anticipated to exceed MassDEP's future HAL of 20 ppt. The new PFAS treatment process, to be confirmed by bench-scale testing, is conceptually designed with anion exchange for its demonstrated effectiveness at the Grove Pond WTP and treatment and operational consistency across both WTPs. This treatment addition will lower the total concentration of the five PFAS below the anticipated HAL.

Andover Emergency Drinking Water Agreement

Andover DW-19-13

As indicated in the Town Manager's Recommended Capital Improvement Program FY2020-2024, a significant portion of the Town's water distribution system consists of unlined cast iron water mains that have reduced hydraulic capacity (pressure), and water quality issues due to mineral deposits. To ensure reliability and sufficient capacity within the water distribution system, a study and analysis has identified areas of the Town with deficient water mains. The Town currently conducts annual infrastructure improvements aimed at properly maintaining and upgrading the Town's aging water distribution system to help prevent catastrophic failures, improve capacity, prevent water loss, provide adequate fire protection and improve overall water quality. Despite the Town's efforts, 154 water line leaks/breaks were reported between January 2013 and January 2019, and 542 discolored water complaints were reported between April 2015 and January 2019.