

Project Descriptions for October 5, 2022

Board of Trustees Meeting

Asset Management Planning Commitments

Bolton CW-22-16

The Town of Bolton seeks to develop a Stormwater Asset Management Plan (AMP) to better understand the condition of the existing stormwater infrastructure, proactively manage improvement and replacement of stormwater assets, evaluate and prioritize approximately 100 culverts in Bolton, create a risk-based AMP and capital improvement planning methodology that is defensible to the public and decision makers, and establish a stormwater GIS database.

Chelmsford Water District DW-22-06

The Town of Chelmsford seeks to develop an understanding of 1.) Where the current horizontal assets are in their useful life through non-destructive means, 2.) Establish the Level of Service desired as well as risk levels, 3.) Update the water model and associated C friction factors, 4.) Digitize the current assets and update the District's geodatabase, and 5.) Develop a risk-based plan for managing and getting the most out of the current horizontal assets and setting the stage for a true digitally based computer-based management system.

Douglas CW-22-20

The Town of Douglas seeks to develop a comprehensive Asset Management Plan (AMP) for the Town's sewer system to establish a proactive maintenance style. The goals of the AMP are to create a defensible risk-based AMP and capital improvement planning methodology, develop inventory and perform condition assessments at sewer facilities, estimate the cost of maintenance and renewal in future years, and develop existing GIS data to help manage Town assets.

Edgartown CW-22-18

The Town of Edgartown seeks to expand upon asset mapping efforts to develop a comprehensive Asset Management Plan (AMP) that includes vertical assets at the Town's wastewater treatment facility and horizontal assets of the collection system. Goals of the proposed Edgartown Sewer AMP include creating a defensible risk-based AMP and fiscal sustainability methodology to guide decision making and help prioritize infrastructure rehabilitation, replacement, and maintenance activities to meet level of service goals.

Lincoln DW-22-16

The Town of Lincoln would like to develop a comprehensive Asset Management Plan (AMP) for their water system to establish a proactive maintenance operations style and to build upon their risk and resiliency efforts. An AMP will help the Town provide their desired level of service at the lowest possible cost. The goals of the AMP are to create a defensible risk-based program and capital improvement planning methodology, develop inventory and perform condition assessments at water facilities, update the Town's existing hydraulic model, estimate the cost of maintenance and renewal in future years and develop existing GIS data to help manage Town assets.

Lunenburg CW-22-19

The Town of Lunenburg seeks to develop a complete asset inventory for their stormwater system. Project objectives are: 1) expand and complete an asset inventory for the stormwater system; and 2) create a framework to perform and track inspections of key assets.

Plainville CW-22-17

The Town of Plainville DPW seeks to develop Phase 2 of its Asset Management Program to: evaluate, select, and procure a commercial-off-the-shelf (COTS) computerized maintenance management software (CMMS); inventory and assess the current state of the Town's vertical drinking water and wastewater assets; update the existing GIS for vertical assets; evaluate the level of service (LOS) of vertical assets in terms of quality, quantity, reliability, and environmental standards; quantify minimum life cycle costs for vertical water and wastewater assets; and update the long-term funding strategy to incorporate vertical water and wastewater assets.

Saugus CW-22-23

The Town of Saugus seeks to develop an Asset Management Program to improve upon its existing utility network datasets with the intent of implementing a utility-based Asset Management Plan (AMP). This will allow the Town to continue to develop measures for determining its network's level of service, criticality, and probability of failure and to proactively manage its utility network infrastructure and reduce operation and maintenance costs by utilizing a GIS based approach.

South Essex Sewerage District CW-22-12

The South Essex Sewerage District's (District) seeks to continue its Asset Management (AM) Improvement Program to integrate ongoing and future activities into a systematic approach that can be carefully funded, executed, and managed to help move the District to their AM maturity target. The proposed work includes: 1) Technical Support – Planning/Scheduling, Work Management, and Predictive Maintenance; 2) Criticality/Risk Analysis; 3) Training on Operator Driven Reliability and Predictive Maintenance.

Community Septic Management Program Commitments**Easton CW-22-21**

Community Septic Management Program

Taunton CW-22-22

Community Septic Management Program

Clean Water Commitments**Chatham CW-21-46**

The Town of Chatham's project, as a component of Chatham's Comprehensive Wastewater Management Plan (CWMP), is intended to upgrade the existing Queen Anne wastewater pumping station that is receiving increased wastewater flow from newly constructed sewer extensions, and to provide future capacity for new sewer extensions. These sewer extensions will allow the Town of Chatham to continue implementing their approved CWMP to achieve nitrogen TMDL compliance in the coastal estuaries, including Stage Harbor.

Dukes County CW-21-33

The Martha's Vineyard Airport Commission's project will implement recommendations in the November 2016 Engineering Report approved by the MassDEP in association with the renewal of the Permit SE#3-171 for the Martha's Vineyard Airport WWTF in West Tisbury, MA. The Draft Permit SE#4-171 retains the effluent discharge limitations for the WWTF and includes changes in monitoring and reporting to comply with current regulations. Facility improvements include repairs to the Process Building and exterior structures, a new flow-metering vault for composite sampling/reporting/process control, and process equipment and electrical upgrade/replacement. The improvements will ensure protection of a Sole Source Aquifer and associated significant environmental resources.

Lead Service Line Planning Program Commitment**Agawam DW-22-18**

The project seeks to expand the Town's current electronic database for all services within its service area to be in compliance with future Lead and Copper Rule Revision (LCRR) inventory requirements, to work in conjunction with the Town's AMP to develop a simple, effective tool to capture service line information during water meter changeouts and perform system wide inspections to verify material composition of services within the Town's inventory.

Asset Management Planning Agreements**Bolton CWA-22-16**

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Mashpee CWP-21-16

The Town of Mashpee proposes the construction of the new Phase 1 Mashpee Water Resource Recovery Facility (WRRF) and collection system to address nitrogen impacts to the Mashpee River watershed. The facility will provide advanced wastewater treatment including nitrogen removal through a membrane bioreactor process. The Phase 1 WRRF is designed for an average flow of 0.12 mgd and maximum month flow of 0.31 mgd. The facility has been designed to be expanded through future phases of the Town's multi-phase Recommended Plan in order to meet the TMDLs for the Town's two nitrogen impaired watersheds.

Mashpee CWP-21-16-A

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Lead Service Line Planning Program Agreement

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Drinking Water Agreement

Eastham DWP-21-10

The Town of Eastham's Water System - Phase 2D project consists of constructing the third well field at District H and installation of 11 miles of water main for the newly built Town-wide municipal water system.