



2023 IUP Loan Forgiveness Project Descriptions

Clean Water Projects

Barnstable

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-11	\$94,878	\$1,790,143

Sewer Extension and Vacuum Sewer Removal

The project will remove approximately half of the Town's existing vacuum sewer system and replace it with a gravity sewer extension.

Barnstable

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-54	\$173,607	\$3,275,585

2023 Wastewater Pump Station Improvements

The project will upgrade the Town's existing Old Colony, Bay Shore Road, Ocean Street, and Gosnold Street wastewater pumping stations to improve reliability, energy efficiency and resiliency.

Brockton

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-30	\$324,813	\$2,179,948

Sewer System Rehabilitation Phase 3

The project includes up to 10 miles of preparatory cleaning of existing sewer pipe, internal inspection, cured-in-place (CIP) sewer pipe lining, and rehabilitation of manholes. The work also includes all restoration, bypass pumping, and miscellaneous work and cleanup. Sewers selected for this project have been identified based on the 2017 sewer flow monitoring program and will be prioritized based on the City's on-going sewer infiltration investigations.

Fitchburg

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-34, CWP-23-34-A	\$4,128,100	\$27,705,362

CSO 032, 045, 083 Separation/Rehabilitation

The CSO 032, 045, 083 Separation/Rehabilitation Project involves the separation of an estimated 21,800 linear feet (LF) of combined sewers, the separation of 2 combination manholes, and the closure of 3 CSO regulators (CSO 032, 045, and 083) that have discharged a combined estimated 39.1 million gallons of untreated combined sewage into the North Nashua River between 2015 and 2021. The project also includes approximately 24,100 LF of trenchless rehabilitation of sanitary sewers to reduce infiltration/inflow upstream of the 3 regulators. The project will also include green infrastructure, when applicable, and includes stormwater improvements for the 2070 10-year, 24-hour storm event.



Harwich

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-19, CWP-23-19-A	\$2,221,866	\$41,921,975

Harwich Phase 3 Sewer Extension

The Phase 3 Sewer Project will continue the sewer implementation called for in the Comprehensive Wastewater Management Plan (CWMP) to address nitrogen loading from septic systems by installing a wastewater collection system to serve watersheds that impact coastal estuaries. This project affects a portion of the Pleasant Bay Watershed including Muddy Creek Upper and Lower, Round Cove, and Pleasant Bay.

Haverhill

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-14	\$229,372	\$2,389,275

Pump Station Upgrades

The project will replace deficient and aging infrastructure to reduce the risk of failure and potential sewer overflows as recommended in the City's 2016 Wastewater Pumping Station Evaluation and Capital Improvement Plan.

Kingston

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-33, CWP-23-33-A	\$373,280	\$7,043,000

Effluent Recharge Site No. 3 and Sewer Expansion

The project consists of the construction of a new force main connection and effluent discharge. The Town is upgrading the capacity of their wastewater treatment facility (WWTF) to accept flow up to 700,000 gallons per day (gpd). Effluent Recharge Site No. 3 was identified by the Town and approved by MassDEP to receive this new flow. An existing force main will be redirected to a distribution structure where effluent will flow to six leaching areas for recharge. Upgrading the WWTF will allow the Town to convert the privately owned WWTP at Town and Country Estates into a pumping station and install 3,600 LF of 4-inch force main to tie into the Town's existing gravity sewer system.

Lawrence

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-23-09	\$61,090	\$410,000

Sanitary Sewer Evaluation Study – Phase IV

Sanitary Sewer System Evaluation that consists of video inspection of up to 46,000 linear feet (LF) of existing sanitary sewer pipe, up to 170 sewer manhole inspections, smoke testing, dye tracing, flow isolation and similar data collection methods. The Work also includes Illicit Discharge Detection and Elimination in up to 120 drainage catchment areas that consists of video inspection, internal plumbing inspections and dye testing verification.



Lowell

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-52, CWP-23-52-A	\$4,148,649	\$27,843,277

Duck Island Wastewater Treatment Facility Phase 3 Upgrade

The project includes important upgrades to Lowell Duck Island Wastewater Treatment Facility (WWTF) including: chemical addition facilities to meet the pending effluent phosphorus limit outlined in the most recent National Pollutant Discharge Elimination System (NPDES) Permit; new centrifuge dewatering facilities and upgrades of ancillary facilities for sludge pumping, blending, and polymer feed; new scum well pumping, mixings, and dewatering equipment; replacement of aeration diffusers and piping in the aeration basins; replacement of the primary sludge de-gritting system; replacement of the gravity thickener mechanism; new bisulfite storage and feed facility; and, a second standby generator to allow full WWTF Operations during a power outage.

Marshfield

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-23-18	\$429,300	\$8,100,000

Plymouth Ave Pump Station Upgrades

The project includes a full rehabilitation of the Plymouth Ave Pump Station, force main, wet well, Heating, Ventilation, Air Conditioning (HVAC) system, electrical system, and roof system. Many of the components are beyond their intended useful life and need immediate replacement to maintain reliable sewer service in the area. The upgrades include concrete repair work in the wet well, replacement of the existing 50 horsepower dry pit pumps, piping and valves, replacement of the undersized generator, replacement of the outdated HVAC and electrical systems and replacement of the existing asphalt roofing system.

Mashpee

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-37	\$286,200	\$5,400,000

Phase I Mashpee Treatment and Collection System

The project consists of the construction of a new collection system as recommended by the state approved 2015 Mashpee Watershed Nitrogen Management Plan to address nitrogen impacts to the Mashpee River watershed and the Pomponesett Bay. The collection system will convey flow to the Mashpee Water Resource Recovery Facility.

Massachusetts Water Resources Authority (MWRA)

Loan Number	Total Loan Forgiveness	Total Loan Amount
CW-23-61	\$40,000	\$2,000,000

Deer Island Treatment Plant (DITP) Clarifier No. 2

This project will include the replacement of systems such as: influent gates that do not provide adequate isolation; effluent launders and aeration systems that need repair/replacement; and concrete corrosion in primary clarifiers above the water line that require repair and coating to



prevent future corrosion. The sludge removal system in primary tanks and aeration and recirculation systems in secondary tanks need to be rehabilitated as well. These actions are intended to correct deficiencies noted during the first Primary & Secondary Clarifier project. The Authority will not be able to meet its discharge permit without this upgrade.

New Bedford

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-24, CWP-23-24-A	\$816,412	\$5,479,262

Buttonwood Brook Improvements

The project consists of improvements in the area of Buttonwood Brook that include the construction of green infrastructure and structural BMPs along Kempton Street and Brownell Avenue, constructed wetlands at the Buttonwood Park Zoo and Community Center, and a culvert replacement at Hawthorn Street. The implementation of this project will result in improved water quality in the Buttonwood Brook and reduced flooding at Fuller Parkway and at the intersection of Brownell Avenue and Hawthorn Street.

Quincy

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-48, CWP-23-48-A	\$377,774	\$7,127,778

FY24 Sewer and Drain Improvements

The project consists of various sewer improvements as well as repairs to the City's drainage that reflect recommendations from the past Sanitary Sewer Evaluation Survey (SSES) reports as well as findings from the City's ongoing and continuous effort to improve their sewer collection system and water quality. In addition to SSES and I/I based projects, the City has been advancing their MS4 obligations under the MS4 Permit and the EPA Consent Decree (Attachment C) to address water quality concerns.

Revere

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-36, CWP-23-36-A	\$695,746	\$7,247,336

Phase 14 Construction – Inflow/Infiltration (I/I), Illicit Discharge Detection and Elimination (IDDE), Pump Station and Drainage

The Phase 14 construction project will include the removal of inflow/infiltration (I/I) from the City's sewer system and will include the redirection of public and private inflow sources during the IDDE source removal, and drainage improvements and pump station improvements (both stormwater and wastewater). Illicit connections, including sump pumps, roof leaders, etc. will be removed from the City's sewer system to remove inflow and increase wastewater capacity. These projects are consistent with the City's CWMP/CSMP and ongoing Consent Decree. Construction will also include Cured-in-place pipe (CIPP) lining, sewer spot repairs, replacements, new sewer lines, cleaning and additional metering.



Saugus

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-47	\$283,852	\$2,956,784

Comprehensive Sewer System Rehabilitation – 3A

The project includes comprehensive sewer system rehabilitation in Saugus. Construction included the rehabilitation of pipelines, manholes and service laterals necessary to eliminate inflow/infiltration (I/I) from the system. Approximately 16,500 liner feet (LF) of 8-inch and 5,550 LF of 10-inch pipe have been identified as needing Cured-in-place pipe (CIPP) lining to eliminate I/I. Also included in this project was the installation of a lining system to improve the quality of the service for mainline connections. There are approximately 410 of this type of connection in the subsystem. Approximately 174 manholes have also been identified were rehabilitated. Each manhole was lined using the latest standards.

Shutesbury

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWPEC-23-62	\$22,350	\$150,000

Shutesbury Fire Department Immediate Response Action

Implementation of an immediate response action to address the release of Per- and polyfluoroalkyl substances (PFAS) to the environment that is impacting private wells in neighboring residential properties.

Upper Blackstone Clean Water

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-21	\$947,398	\$6,358,366

Standby Power for Resiliency

The project includes the construction of new facilities to provide standby power for the entire wastewater treatment facility, including new standby generators and related elements such as switchgear and electrical conduit, as well as additional renewable energy sources to provide resiliency, currently being evaluated for inclusion.

Wareham

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-56	\$2,384,000	\$16,000,000

Water Pollution Control Facility Improvements – Phase 2

The project consists of upgrades to the Wareham Water Pollution Control Facility to continue to treat existing and future flows that are anticipated because of growth within the community and for nutrient management. Upgrading these processes is critical to the continued functioning of the facility and will allow for further expansion of the collection system and potentially bringing many failing septic systems into the centralized wastewater treatment system.



Worcester

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-20, CWP-23-20-A	\$574,862	\$3,858,129

Lake Avenue Pump Station Improvements

The project consists of removal and replacement of existing sewage pumps, and their corresponding suction piping, valves, and pipe supports, relocation of equipment not rated for submersible conditions to prevent damage due to flooding, reconfiguration of force mains and modification of backup float system and installing separate cellular dialing system. These upgrades will improve the response time during an emergency, reduce the frequency and severity of sanitary sewer overflows into the adjacent lake, and reduce the maintenance frequency and corresponding cost.

Yarmouth

Loan Number	Total Loan Forgiveness	Total Loan Amount
CWP-23-03, CWP-23-03-A	\$4,010,816	\$41,779,312

Phase I – Water Resource Recovery Facility and Collection System

The project implements Phase 1 of Yarmouth's Clean Water Master Plan that includes: construction of Water Resource Recovery Facility (WRRF), construction of effluent recharge site and collection system with sewerage (approximately 78,000 linear feet and pumping stations along Route 28, from the Barnstable town line to the Bass River, along with sewerage on South Shore Drive. The construction of the new WRRF and collection system in Phase 1 will begin to reduce nitrogen loading in the nitrogen-sensitive Bass River, Parkers River, and Lewis Bay watersheds. These watersheds require a large reduction in nitrogen based on the MEP reports and TMDLs. Phase 1 will also help protect municipal drinking water wells from contamination by reducing on-site septic systems.



Drinking Water Projects

Aquarion Water Company of Massachusetts, Inc.

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-134	\$1,127,860	\$4,679,913

Oak Pond Well Granular Activated Carbon (GAC) Treatment Facility

The project will construct a building to house two 12-foot diameter Granular Activated Carbon (GAC) filter vessels, with a treatment design capacity of 530 gallons per minute. The new treatment facility will include the installation of a backwash waste holding tank and force main to connect to the existing sanitary sewer, and chemical feed systems for disinfection and corrosion control.

Aquarion Water Company of Massachusetts, Inc.

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-144	\$1,417,664	\$4,514,850

North Main Street Water Treatment Plant

The project involves constructing a new water treatment plant to address elevated manganese levels in the source water at the North Main Street wellfield in Oxford. This Project is part of a Corrective Action Plan to enhance Oxford's drinking water system treatment practices.

Boston Water and Sewer Commission

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWLC-22-50	\$2,798,987	\$6,997,468

Lead Service Line (LSL) Replacement

The Commission seeks to eliminate lead water services in both the public way and private property and has an ongoing LSL replacement program which was initiated in response to the exceedance of the lead action level in 2020.

Braintree

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-151	\$1,680,000	\$10,000,000

Tri-Town Regional Water Treatment Plant

The Tri-Town Regional Water Treatment Plant (TTRWTP) will replace the existing Braintree and Randolph/Holbrook Water Treatment Plants (WTPs). This will combine the plants and get rid of the need for two of them, which will cut down on the costs of building, running, and maintaining two plants. The new TTRWTP will reduce bacteria, carcinogenic chemicals, and disinfectant byproducts found in the current systems, protecting public health while improving disinfection and corrosion control. Further the new plant will use granular activated carbon filtering for Per- and polyfluoroalkyl substances (PFAS). The new TTRWTP will use better treatment technologies to produce high-quality water and maintain distribution system residuals. The 12.5 million Gallons per Day (MGD) regional facility would meet all current and anticipated drinking water standards and improve Braintree, Randolph, and Holbrook's drinking water principles.



Chatham

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-107	\$2,025,000	\$15,000,000

Training Field Road PFAS Water Treatment Plant

This project involves the construction of a new water treatment plant (WTP) to treat the Per- and polyfluoroalkyl substances (PFAS) contamination found in two of the Town's wells. The latest water facility will include chemical treatment and greensand and PFAS filtration systems. Necessary modifications and upgrades to the well-buildings will support the WTP. The goal of the project is to remove PFAS, iron, and manganese from the water to provide safe drinking water for the town.

East Brookfield

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-135	\$1,919,321	\$9,501,538

West Street Iron and Manganese Water Treatment Plant

The Project is to provide treatment to the sole wellfield in town to remove iron and manganese that is required under an administrative consent order.

Foxborough

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-118	\$1,383,750	\$10,250,000

Chestnut Street Water Treatment Plant Improvements

The project consists of system improvements to add per- and poly-fluoroalkyl substances (PFAS) treatment at the Chestnut Street Water Treatment Plant.

Harvard

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-130	\$143,200	\$7,160,000

Harvard-Devens Water System Interconnection

The project includes constructing an interconnection between the Town of Harvard and the Devens water distribution systems, including installing approximately 8,500 linear feet of new 12-inch ductile iron water main, appurtenances, and the construction of a meter building with booster pumps.



Holbrook

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-152	\$771,200	\$3,200,000

Tri-Town Regional Water Treatment Plant

The Tri-Town Regional Water Treatment Plant (TTRWTP) will replace the existing Braintree and Randolph/Holbrook Water Treatment Plants (WTPs). This will combine the plants and get rid of the need for two of them, which will cut down on the costs of building, running, and maintaining two plants. The new TTRWTP will reduce bacteria, carcinogenic chemicals, and disinfectant byproducts found in the current systems, protecting public health while improving disinfection and corrosion control. Further the new plant will use granular activated carbon filtering for Per- and polyfluoroalkyl substances (PFAS). The new TTRWTP will use better treatment technologies to produce high-quality water and maintain distribution system residuals. The 12.5 million Gallons per Day (MGD) regional facility would meet all current and anticipated drinking water standards and improve Braintree, Randolph, and Holbrook's drinking water principles.

Hopedale

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-117	\$798,000	\$4,750,000

Greene Street Water Treatment Plant PFAS Treatment

The project consists of adding Per- and polyfluoroalkyl substances (PFAS) treatment to the WTP, including constructing two 10-foot diameter pressure vessels containing granular activated carbon, an additional 8-foot diameter greensand filter, and a sodium thiosulfate system for dechlorination. A new truck pad will be constructed as well for simpler chemical delivery.

Lynnfield Center Water District

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-131	\$2,025,000	\$15,000,000

Glen Drive Water Treatment Plant and Station 2 Pipeline

The project includes the construction of a new 0.8 million gallons per day water treatment plant (WTP) for existing water sources and 4,000 linear feet of transmission main. The WTP will include radon removal, new high lift pumps, greensand pressure vessels, chemical feed systems, a backup generator, and associated building mechanical components. The Station 2 pipeline project includes 4,000 linear feet of 6-inch ductile iron transmission main to connect the Station 2 water source to the Glen Drive WTP. The completed project is needed for long-term Per- and polyfluoroalkyl substances (PFAS) compliance and will mitigate PFAS with the required iron, manganese, and radon removal.



MWRA

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-142	\$268,424	\$13,421,178

Section 23, 24, 47 Water Mains Rehabilitation

The Authority wants to repair the main water sections 23, 24, and 47 - which serve Boston and Watertown. Section 23 and section 24 are 124-year-old cast iron pipes, Section 47 is a 103-year-old cast iron main. This project aims to improve the condition, hydraulic capacity, and dependability of existing water mains, prevent service disruption from breaks and leaks, and fix distribution system hydraulic and operating issues.

MWRA

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-148	\$15,303	\$765,124

Weston Aqueduct Supply Main Rehabilitation

This project focuses on rehabilitating the Weston Aqueduct Supply Main 3, 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, which was built in the 1920s, needs 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.

MWRA

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-149	\$16,274	\$813,698

Northern Intermediate High Section 89 Replacement

This construction project will replace approximately 10,500 liner feet (LF) of 48-inch Prestressed Concrete Cylinder Pipe (PCCP) water main, Section 89, in Stoneham, Winchester, and Woburn. Also included within project scope is the replacement of valves and appurtenances for approximately 9000 LF of 36-inch Ductile Iron water main in Woburn. Replacement of the older PCCP pipeline in Section 89 (identified as having a significant risk of catastrophic failure) will ensure that this service area has a redundant means of water supply.

Mattapoissett River Valley Water District

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-60	\$276,570	\$2,195,000

Procurement of Ultrafiltration System Equipment

Emergency financing to procure replacement of the failed ultrafiltration system at the Water Treatment Plant.



New Bedford

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-155	\$4,470,000	\$15,000,000

Quittacas Water Treatment Plant Upgrades

The City of New Bedford's Quittacas Water Treatment Plant (QWTP) is in its second phase of project upgrades. No major upgrades have been made to the 1970s-built QWTP. Phase 1 upgraded the electrical distribution system and was finished. To keep the plant running safely, this phase improves the HVAC system, Supervisory Control and Data Acquisition (SCADA), and process areas.

Norwell

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-52	\$316,357	\$2,343,381

South Street Water Treatment Plant PFAS Remediation Project

Granular activated carbon (GAC) will be added to the South Street Treatment Facility to help treat Per- and polyfluoroalkyl substances (PFAS). The proposed treatment features two trains with two pressure tubes holding GAC material in a lead/lag arrangement. The second vessel is a cleaning adsorber, and the first vessel is monitored for pollutants. After break through, the media inside the lead vessel changes and the adsorber vessels are switched so that the previous lag vessel becomes the lead vessel and the former lead vessel with fresh GAC becomes the lag vessel.

Randolph

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-153	\$1,638,800	\$6,800,000

Tri-Town Regional Water Treatment Plant

The Tri-Town Regional Water Treatment Plant (TTRWTP) will replace the existing Braintree and Randolph/Holbrook Water Treatment Plants (WTPs). This will combine the plants and get rid of the need for two of them, which will cut down on the costs of building, running, and maintaining two plants. The new TTRWTP will reduce bacteria, carcinogenic chemicals, and disinfectant byproducts found in the current systems, protecting public health while improving disinfection and corrosion control. Further the new plant will use granular activated carbon filtering for Per- and polyfluoroalkyl substances (PFAS). The new TTRWTP will use better treatment technologies to produce high-quality water and maintain distribution system residuals. The 12.5 million Gallons per Day (MGD) regional facility would meet all current and anticipated drinking water standards and improve Braintree, Randolph, and Holbrook's drinking water principles.



Raynham Center Water District

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-143	\$2,520,000	\$15,000,000

PFAS Water Treatment Plants

Project Description. The project includes constructing two Per- and polyfluoroalkyl substances (PFAS) water treatment plants, one at the Lake Nip site and the other at the Gushee Pond site.

Scituate

Loan Number	Total Loan Forgiveness	Total Loan Amount
DW-23-125	\$300,000	\$15,000,000

Surface Water Treatment Plant

The project includes the construction of a new water treatment facility following the Administrative Consent Order (ACO) received in August 2020. The new water treatment facility will consist of plate settler clarification, dual media filter treatment, new emergency backup power, intake piping, interconnection piping, and appurtenances. The complete project will improve drinking water quality by reducing high manganese and iron concentrations and eliminating microbiological contaminations and discoloration.

Sharon

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-123	\$2,025,000	\$15,000,000

Wells 2 and 4 Water Treatment Plant

The project includes constructing a permanent treatment facility to reduce the Per- and polyfluoroalkyl substances (PFAS and manganese levels in the finished water from Wells 2 and 4.

Springfield Water and Sewer Commission

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-140	\$4,470,000	\$15,000,000

Replacement of Water Treatment Plant – Phase 2B

The project involves constructing a water treatment plant with advanced processes such as coagulation, flocculation, Dissolved Air Flotation (DAF), and filtration to replace the existing direct filtration and slow sand filtration system. The DAF process will enhance the removal of natural organic matter, ensuring compliance with Disinfection Byproduct and maximum contaminant levels (MCLs).



Stoughton

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-122	\$1,039,844	\$4,314,700

Muddy Pond Pump Station PFAS Treatment

The project includes installing a new Per- and polyfluoroalkyl substances (PFAS) treatment facility with two Granular Activated Carbon (GAC) pressure vessels to remove PFAS and ensure compliance with drinking water regulations.

Sudbury Water District

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-138	\$978,833	\$7,250,611

East Street Water Treatment Plant PFAS Treatment

The project includes the construction of a permanent treatment facility consisting of two 10-foot diameter Granular Activated Carbon pressure vessels and four 6-foot diameter ion exchange vessels. The vessels will be housed in a building adjacent to the East Street WTP.

Webster

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-119	\$4,710,000	\$15,000,000

PFAS Water Treatment Plants

The project consists of constructing two new Per- and polyfluoroalkyl substances (PFAS) water treatment plants and a meter system upgrade project. The WTPs will remove PFAS below regulatory limits from the Memorial Beach and Bigelow Well Sites. The proposed new WTP at the Bigelow site will also remove manganese below regulatory limits. Two replacement wells will also be installed to improve system redundancy. The water meter upgrade project will significantly reduce the Town's unaccounted-for water (UAW).

West Bridgewater

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWPEC-23-124	\$658,609	\$3,920,285

West Bridgewater Long Term PFAS Compliance

The project consists of constructing a Per- and polyfluoroalkyl substances (PFAS) treatment modification to the Manley Street Water Treatment Facility to comply with the PFAS Maximum Contaminant Levels (MCL).



Westborough

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-129	\$1,105,486	\$8,188,783

Oak Street Water Treatment Plant PFAS Improvements

The project includes constructing a treatment process at the Oak Street Water Treatment Plant (WTP) to remove elevated concentrations of Per- and polyfluoroalkyl substances (PFAS) from two groundwater wells, one above the Massachusetts Maximum Contaminant Limit. The treatment will consist of two trains of two, twelve-foot diameter pressure vessels in lead/lag configuration, each filled with 20,000 pounds of granular activated carbon (GAC). Based on rapid small-scale column testing, GAC will remove PFAS for an extended period to remove non-detectable concentrations of PFAS. The treatment process will be installed as an extension to the existing Oak Street WTP and involve other minor upgrades to the existing facility.

Winchendon

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-110	\$2,458,500	\$8,250,000

Water Transmission Main Replacement

The project includes constructing approximately 21,000 linear feet of new 12-inch ductile iron water transmission main in Winchendon and Ashburnham. The project also provides for installing two water meter vaults, two bridge crossings, and one culvert crossing. The project will replace the existing water main installed in the early 1950s, which has a history of excessive breaks. The existing water main is the sole transmission water main providing water to the Town of Winchendon and many residents within the Town of Ashburnham.

Water Supply District of Acton

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-126	\$1,021,338	\$7,565,462

PFAS Treatment at South Acton Water Treatment Plant

The project includes the construction of a building addition at the existing South Acton WTP site to house the equipment needed for Per- and polyfluoroalkyl substances (PFAS) removal. Treatment will consist of Granular Activated Carbon and/or Ion Exchange. The completed Project will improve drinking water quality by reducing high PFAS concentrations.



Water Supply District of Acton

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWEC-23-127	\$1,397,489	\$10,351,769

PFAS Treatment at Central Acton Water Treatment Plant

The project includes Per- and polyfluoroalkyl substances (PFAS) treatment, including constructing a building addition at the existing Central Acton WTP site to house the equipment needed for PFAS removal. Treatment will consist of Granular Activated Carbon and/or Ion Exchange and the connection of two bedrock wells to the Central Acton WTP to reduce the PFAS concentration by blending the two new sources with the existing Conant sources at the plant.

Yarmouth

Loan Number	Total Loan Forgiveness	Total Loan Amount
DWP-23-18	\$863,782	\$3,584,154

Yarmouth Well 4 and 5 Package PFAS Treatment System

The project will install drinking water treatment systems to reduce Per- and Polyfluoroalkyl substances (PFAS) level below the maximum contaminant limit for two of Yarmouth's wells. Treatment for the wells is necessary for Yarmouth to provide adequate supply capacity and redundancy within the drinking water system to meet the variable summertime high demands and restore the 864,000 gallons per day of capacity. The proposed treatment solutions will include greensand pre-filters for removing iron and manganese, and ion exchange systems to adsorb and remove PFAS, along with associated site work to accommodate the treatment units.