

## WASTEWATER TREATMENT FACILITY UPGRADE

**STATE PROGRAM:** New Hampshire Department of Environmental Services

**ASSISTANCE RECIPIENT:** Town of Exeter

**ASSISTANCE AMOUNT:** \$53.6M



### PROJECT DESCRIPTION

The Town of Exeter received \$53.6 million in CWSRF funds to perform a comprehensive upgrade to their wastewater treatment plant (WWTP). This project replaced an aerated lagoon treatment facility and included the construction of a new sludge sewage treatment plant that utilizes a four stage Bardenpho treatment process to biologically remove nitrogen. When the treatment process began in June of 2019, total nitrogen levels declined within a month. This put the Town in a position to significantly reduce nitrogen levels being discharged from the WWTP into the Squamscott River and Great Bay Watersheds. With continued use of their existing lagoon system and an upgrade of the Main Pump Station, most of the Town's CSOs were also eliminated. Additionally, the upgrade improved energy efficiency through the installation of two aeration tanks and sludge storage tanks.

Exeter received \$2.7 million in principal forgiveness as part of their CWSRF loan and \$12 million in the form of a New Hampshire state grant. This significant cost savings, along with the Town's effort to upgrade the Exeter WWTP, will help to continually improve the water quality in the Squamscott River and Great Bay Watersheds.

To read more about this case study, please visit [https://www.epa.gov/sites/default/files/2021-02/documents/2020\\_pisces\\_compendium.pdf](https://www.epa.gov/sites/default/files/2021-02/documents/2020_pisces_compendium.pdf).