

SUBAQUEOUS SANITARY SEWER PROJECT

STATE PROGRAM: North Carolina Department of Environmental Quality

ASSISTANCE RECIPIENT: Lake Lure

ASSISTANCE AMOUNT: \$19.6 million

PROJECT DESCRIPTION

The Town of Lake Lure, North Carolina, was experiencing maintenance and operational challenges with its 100-year-old collection system. The outdated design of the collection system meant that the main sewer line is located in the center of the lake — Lake Lure — and manholes were fitted with flushing valves to assist in flushing solids. The outdated design posed future emergency risks for the Town, as most of the collection system was inaccessible for repairs. Also, flushing of the system resulted in infiltration and inflow that hindered treatment of the wastewater and contributed to violations of the Town's wastewater permit effluent limits.

The Town received a CWSRF loan of \$19,580,261 to help pay for the removal of the existing sewer out of the center of the lake and the installation of a new sewer/forcemain in a different location. The Town also is planning to relocate its wastewater treatment plant (WWTP) from its current location in the floodway to an area with a lower flood-risk. Lake Lure recently experienced catastrophic flooding from Tropical Storm Helene and the existing pump station was flooded along with the WWTP. A portion of the CWSRF funds will be used to perform emergency repairs to the pump station.

To read more about this case study, please visit [PISCES 2025 Recognition Program Compendium](#).

