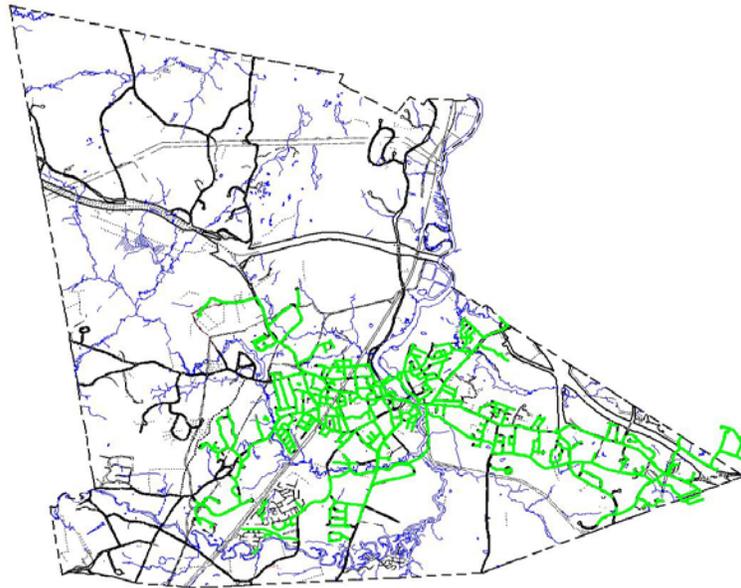


## MUNICIPAL WASTEWATER COLLECTION SYSTEM

Exeter's wastewater system consists of a Wastewater Treatment Plant, approximately 49 miles of sewer pipe, 1500 manholes, nine pumping stations, and three combined sewer overflow (CSO) diversion structures.



Sewer pipes in the wastewater system range from 6-inch diameter collector pipes to a 30-inch diameter pipe which flows into the Water Street Combined Sewer Overflow (CSO) structure.

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Many of the smaller-sized pipes are constructed of vitrified clay and asbestos cement. The clay pipes are the oldest in the system and probably date back to the turn of the century. The asbestos cement pipes were likely constructed in the 1950s and 1960s. More recent sewer pipes are either polyvinyl chloride (PVC) or reinforced concrete.

Exeter's nine pumping stations are centrifugal with separate pump rooms (dry wells) and underground wet wells. Four of the larger pump stations have separate control rooms, pump rooms and wet well structures. Regardless of capacity, all pumping stations are controlled by an automated operator which alternates the pumps during subsequent cycles. A central computer system provides system monitoring, control, and alarms at the [Wastewater Treatment Plant](#) for the plant and the [remote pumping stations](#).

The wastewater system experiences overflows during heavy rainstorms. It has been determined that during significant rainfall events, stormwater enters the sewer

system causing overflows to occur; this is known as a Combined Sewer Overflow (CSO). The wastewater collection system wasn't designed to handle large amounts of water received during heavy rain events. A CSO diversion system was put in place to direct these high stormwater flows to Clemson's Holding Pond. The pond discharges through a permitted outfall and tidegates to the Squamscott River.

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