

## REEDY RIVER BASIN SEWER TUNNEL

**STATE PROGRAM:** South Carolina Department of Health and Environmental Control

**ASSISTANCE RECIPIENT:** Renewable Water Resources

**ASSISTANCE AMOUNT:** \$42.4M



### PROJECT DESCRIPTION

The City of Greenville is considered the 4th fastest growing city in the country. Renewable Water Resources (ReWa), a public regional wastewater collection and treatment provider, has determined the need for additional sewer conveyance capacity for the City. The goal was to construct an overflow collection system for the 68-square mile service area while avoiding disturbance to downtown Greenville. The decision made was that the best option was to build a tunnel beneath the City. The Reedy River Basin Sewer Tunnel (Dig Greenville) will be 11 feet in diameter, 1.2 miles long, and is scheduled to be completed in 2020. The tunnel will be 100 feet below ground, and a tunnel boring machine will drill through solid rock to install it. This new collection system will operate by diverting excess peak wet-weather flow into a drop shaft with vortex piping that leads from the existing system to the deeper tunnel system. The tunnel will convey the influent downstream of the City and reconnect to a gravity interceptor line where it will be transported to the Mauldin Road Water Resource Recovery Facility for treatment. The ability to divert peak wet-weather flows to the sewer tunnel will lessen the potential for sanitary sewer overflows and reduce the potential for elevated bacteria levels in the water along this reach of the river.

To read more about this case study, please visit [https://www.epa.gov/sites/default/files/2018-11/documents/pisces\\_2018\\_compendium\\_0.pdf](https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf).