

**CASE
STUDY**



**PROJECT
SNAPSHOT**

PROJECT OWNER

City of Greenville

CONTRACTOR

Vortex Services – Southeast Division

PROBLEM

Greenville needed an investigation into the condition of 45,000 LF of its 6" - 10", vitrified clay sewer mains.

SOLUTION

Utilized mechanical cleaning, CCTV sewer cameras, and smoke testing to clean and assess the sewers, and then created a deliverable using the analyzed inspection data.

CONTACT

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CCTV Inspections and Cleaning in Greenville, SC

CITY SEARCHING FOR SEWER CONDITION ASSESSMENT SERVICES

THE CHALLENGE

In early 2024, the city of Greenville, South Carolina determined that it was high time to get a deeper understanding of its sewer assets' condition, specifically 45,000 linear feet (LF) of its 6" - 10" diameter, vitrified clay sewer mains. Greenville's goals for this project were to identify any issues needing rehabilitation or cleaning and to establish a repair method for future repairs. The city selected Vortex Services for this job because of the team's history of successful, time-efficient condition assessments.

THE SOLUTION

To evaluate all 45,000 LF of sewer lines, the Vortex Services team utilized a combination of CCTV sewer cameras, smoke testing, and mechanical cleaning. Starting work in March 2024, much of this project had to be completed at night as the sewers were in heavily populated areas. First, the crew ran a CCTV camera through the lines, identifying cracks, debris, and other defects. Upon video inspection, the team determined that about 4,500 LF would benefit from cleaning and utilized an easement machine to clear out the lines. Next, the crew performed smoke tests on all the piping. This method helped the team pinpoint the location of defects such as infiltration and pipe blockages. Once the testing was complete, the crew's project manager, Braden Roth, analyzed and coded the inspection data, and then the team put together an assessment package for the client.

THE RESULTS

In April 2024, the Vortex Services squad completed this rehabilitation job under budget and ahead of schedule. The comprehensive condition assessments revealed multiple sections of poorly performing assets within the city, meaning that Greenville would have faced potential waterway pollution and negative environmental impacts had it refrained from having the inspections completed.

No photos taken at Client's request.