

Lee Road District Sewer System Evaluation Survey

City of Cleveland, Ohio



The Lee Road District is located in the southeastern part of the City of Cleveland. This District is one of a few areas in the City of Cleveland with separated sewers. The sanitary sewer system in the District transports the flow east to the main interceptor sewer on Lee Road. The Flow is then transported south along Lee Road to the Mill Creek Interceptor.

The City of Cleveland contracted with **Spalding DeDecker Associates, Inc. (SDA)** and its sub-consultants in 2008 to perform a Sewer System Evaluation

Survey (SSES) to locate the sources of excessive inflow entering the sanitary sewer system.

Approximately 200 manholes were inspected by opening each manhole to identify conditions and type of material used. Any sources of I&I within the manholes were identified. Approximately 42,000 ft of sewer pipe were smoke tested. A downspout inspection program was performed during smoke testing to identify storm connections to the sanitary sewer system.

A Microsoft Access database was developed to assemble the inspection data. A cost-benefit analysis was performed for a cost-effective rehabilitation program.

Among the main discoveries was that 353 homes were found to have downspouts connected directly to the sanitary sewer system and forty five (45) storm manholes and catch basins were found to be connected directly to the sanitary sewer system.

OWNER / CLIENT

City of Cleveland

PROJECT START - END

April 2008 - December 2008

SDA PROJECT NO.

NP08-011