

Wallace Avenue SSES

The Rock River Water Reclamation District (RRWRD) has been experiencing higher than normal flows in the Basin 124 tributary to the Wallace Avenue pump station. RJN, as a nationally recognized leader in sewer evaluation studies, was retained to evaluate the conditions of the sanitary sewer system flows to the pump station, pinpoint the source of the excessive flow, and to develop a cost effective solution for the removal of this flow.



RJN provided field investigation services for the project area which covered approximately 76,000 linear feet of sewer lines. These services included:

- Dual blower smoke testing
- Manhole inspections
- Pump station evaluation
- Pump station calibration

During smoke testing, the field crews also observed and noted potential sources of private sector I/I. Project deliverables identifying defects were provided to the RRWRD as updates to their GIS.

RJN determined that the pump station was receiving approximately 2.5 mgd of inflow / infiltration which was primarily attributable to the elevation of the Rock



River and not rainfall. Field investigations identified a limited number of mainline defects, but showed that the private source I/I including sump pump discharges contribute significantly to the excess flow. Using the results of the study, the RRWRD was able to address the identified mainline defects and also develop a comprehensive manhole rehabilitation plan.