



Case Study Category: CAWW

Case Study Title: Howard County Department of Public Works, Maryland's Flow Monitoring Report for Little Patuxent Interceptor

Utility Name: Howard County

Case Study Abstract: Howard County's Department of Public Works investigated the impact of inflow and infiltration (I/I) on the performance of the Little Patuxent Sewershed. The investigation consisted of an I/I study and the development of a hydraulic model of the sewershed. The I/I study involved collection of flow and rainfall data in the sewershed for a period of four months, and was followed by the data analysis. The hydraulic model was developed in XP-SWMM, a comprehensive software package for dynamic modeling, and simulated the flow in all pipes 12 inches and larger. Results of the modeling indicated that large portions of the system will not have the capacity to handle design storm events for present and projected flows. The problem locations were confirmed by Howard County personnel field experience.

Case Study Link: <http://waterid.org/content/howard-county-department-public-works-marylands-flow-monitoring-report-little-patuxent-inter>