

LOW IMPACT DEVELOPMENT STUDY FOR LONG TERM CSO CONTROL PLAN

CLIENT

- NYCDEP Joint Venture Team

SERVICES PROVIDED

- Survey design
- Infiltration testing
- Hydrologic analysis
- Hydrologic modeling
- Life-cycle analysis
- Policy analysis

STATUS

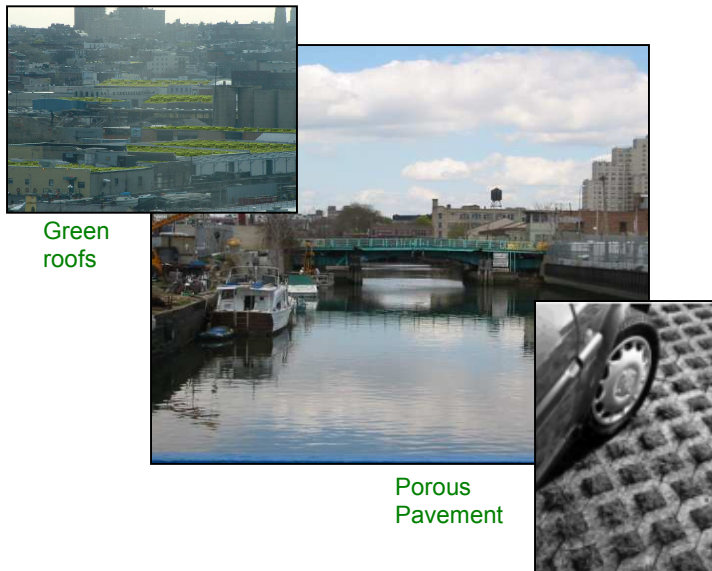
Ongoing

PROJECT SUMMARY

eDD is conducting a study for the NYCDEP Long Term Control Plan (LTCP) to assess the potential of incorporating low impact development (LID) systems as a means of minimizing combined sewer overflows (CSOs) in New York City. Building from preliminary work in the Gowanus Canal Watershed, EDD will examine the cost-effectiveness of LID systems such as green roofs, porous pavement, and rainwater harvesting and reuse systems.

An analytical method developed by eDD utilizes data on rainfall and CSO discharges to estimate the reductions achievable through phased introduction of LID into the sewershed. The present work will be validating the results of this early model with in the field infiltration testing, structural analysis of ten buildings to support green roofs, a public willingness to pay survey, and an assessment of actual LID installation costs at sites in the watershed. The work will culminate with SWMM modeling of various LID implementation scenarios in the pilot Brooklyn sewershed.

Gowanus Canal and LID



Analytical Results

