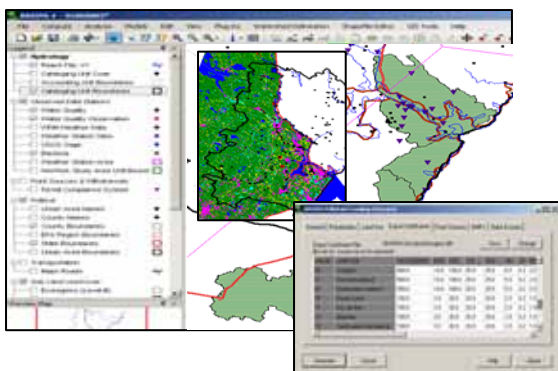


Stormwater Assessment & Management



Assessment



Modeling



Design - Management

Stormwater management can be a problematic and expensive proposition for new and existing development. For more than 10 years, ESS Group, Inc. has designed and overseen construction of the latest in Low Impact Development (LID) stormwater systems throughout New England.

Historically, the challenge with stormwater has been to move water off of roadways and parking lots as quickly as possible via predictable pathways. Today, stormwater management also requires the removal of pollutants such as sediment, metals, nutrients, hydrocarbons, and bacteria before the stormwater is discharged to the environment. Regulators nationwide now also require that older systems be retrofitted to adhere to these new removal standards.

With these new regulations, quantitative assessments of both water and associated pollutants that will be removed from the drainage area are an important element in the evaluation and approval of LID systems. ESS excels in these evaluations. We address them in a cost-effective manner that can make the difference between quick and efficient permitting and a prolonged process requiring multiple re-designs to gain approval.

Our assessment-modeling-permitting services include:

- Dry and Wet Weather Sampling and Monitoring
- Hydrologic and Pollutant Load Modeling
- Runoff Volume Calculations and Sizing of Stormwater Conveyance Structures to Reduce Flooding
- Site-Specific Structural Controls and Alternatives Analysis
- Design and Evaluation of Non-Structural Controls Including Ordinances and By-laws, Public Outreach Programs, and Stormwater Utilities
- Comprehensive Watershed Assessments Including Mapping and Illicit Discharge Detection
- Stream, Lake, and Pond Assessments

The ESS stormwater management resume includes projects for both public and private sector clients. We have prepared numerous Stormwater Pollution Prevention Plans and discharge permit applications for facilities of all sizes under both state and federal guidelines. From calculating the impacts of rainfall events and design of control features to monitoring and maintenance of best management practices, ESS will meet your LID stormwater system design, permitting, and annual reporting needs.