



Water Resources



Water is a precious resource that requires careful management and protection. Innovative approaches to manage impacts to water quality and stormwater runoff is an essential part of the engineering required on nearly all of our projects. By keeping pace with emerging technologies and maintaining expertise in hydrologic and hydraulic engineering, Karins and Associates is able to evaluate the most effective water resource protection solution in accordance with the context of each individual project.

Our water resource engineering capabilities includes the following list of services routinely performed for residential, commercial, industrial and institutional clients:

- Stormwater Management Analysis and Design
- Stormwater Management Green Technology Best Management Practices Design (SWMGTBMP)
- Watershed Studies and Management Plans
- Surface Water Modeling and Flood Studies/Analyses
- Drainage Studies and Hydraulic Design
- National Pollutant Discharge Elimination System (NPDES) permitting and compliance including Notice of Intent (NOI) and Notice of Termination (NOT)
- Erosion and Sediment Control and Remediation Plans
- Environmental Impact Assessments for Water Resource Protection Areas
- On-site Wastewater Treatment (Septic) Design and Inspection
- Water Supply Evaluation
- Water Balance Analysis
- Total Maximum Daily Load (TMDL) Analysis