Geosyntec provides specialized stormwater and watershed management services to public and private sector clients throughout the United States. We apply the latest proven approaches and technologies to develop structural and institutional approaches to protect and improve receiving water quality. Our California stormwater management specialists form one of the leading practices in the country and include individuals whose applied research received the American Society of Civil Engineers (ASCE) Civil Engineering State-of-the-Art Award and other state and regional awards.

**Practice Specialties**

We have built our national stormwater management practice to focus on urban runoff management and other water quality and quantity issues that can influence the environment, project economics and long-term regulatory compliance management. We apply engineering, earth science, and ecological disciplines to the planning, permitting, design, and implementation of practical solutions for state governments, local agencies, and private sector interests.

For development projects, Geosyntec works with clients to design and implement Storm Water Pollution Prevention Plans (SWPPPs); Erosion and Sediment Control Plans; hydrologic models, and stormwater Best Management Practices (BMP) designs, particularly treatment systems and erosion and sediment control methods. We develop technical documents on project plans for stormwater management and modeling and analyses to support state environmental policy act requirements (e.g., California Environmental Quality Act). Geosyntec has also assisted with litigation and regulatory support. We provide our clients with innovative applications of proven urban runoff management techniques that improve stormwater quality beyond that achievable with conventional, prescriptive approaches. We have incorporated Low Impact
As part of the master plan update, Geosyntec is reviewing existing hydrology, water quality, and peak flow management in the river, helping the Los Angeles County Department of Public Works and its regional partners establish a process for determining beneficial uses in the and along the LA River, and reviewing and updating models and identifying flood control system capacity, existing deficiencies, and the physical condition of the river infrastructure.

Geosyntec worked with San Diego area city, county, and state officials after the wildfires ravaged the region to develop immediate and long-term plans to protect sensitive habitat, residential and commercial property, and public infrastructure from flash floods and mudslides.

Development (LID) approaches into new development and rehabilitation projects to improve control over both quantity and quality of stormwater. Our work in erosion and sediment control has earned national acclaim, particularly for the rapid management of highly sensitive areas of California prone to flash floods and mudslides after seasonal wildfires. We have developed and are implementing hydromodification analysis tools and control plans for municipal stormwater agencies and multiple large-scale projects.

Geosyntec uses the latest technologies to rapidly characterize watersheds so that we can focus on the development of cost-effective, high-value solutions for stormwater management. For example, Geosyntec is among the first to employ satellite image processing technologies to rapidly calculate watershed impervious cover. The accuracy of this technology allows communities to more effectively target problem areas without extensive on-the-ground surveys. As a result, communities on both coasts are spending few dollars on projects to achieve the same or better levels of water quality improvement. We have also led a team to develop national-level guidance on how to apply a unit processes-based approach to BMP selection, design, and operation/maintenance so that BMPs are being targeted on the pollutants and other parameters of concern.

Advancing the State-of-the-Practice
Our stormwater management staff continues to advance the state-of-the-practice through applied research involving government agencies (e.g., U.S. EPA, Federal Highway Administration, and California Department of Transportation) and industry/academic associations (e.g., American Society of Civil Engineers (ASCE), Water Environment Research Foundation, and National Cooperative Highway Research Program). Their efforts have been recognized nationally and regionally by organizations such as the American Council of Engineering Companies (ACEC), ASCE, and California Stormwater Quality Association (CASQA).