

Southwest Florida Water Management District Clam Bayou Ecosystem Restoration and Stormwater Treatment Project

5M Civil was retained by SWFWMD to perform hydrologic and hydraulic analysis (H&H), design and permitting services for a 7.55-acre off-line regional stormwater wet detention treatment facility and ecosystem restoration project.

Project design features included minimizing coastal mangrove disturbance, land acquisition for optimal stormwater treatment, accommodating future multi-use recreational trail features, water quality flow path optimization, and freshwater hydration of marine coastal habitats.

Design features include a **triple barrel 12'x10' reinforced concrete box culvert, 3 drop inlet control structures and a 120 foot long concrete broad crested overflow weir.** These design features were used to treat stormwater flows from a 1775 acre urbanized drainage basin in City of St. Petersburg.

This project was a showcase for integration of environmental restoration and stormwater treatment. This project won first place in the 2013 Tampa Bay Regional Planning Council Future of the Regions Award for Natural Resource/The Environment.



GIS ANALYSIS



STORMWATER MODELING



IMPLEMENTATION



CONSTRUCTION



CONSTRUCTION

