



The Bass Slough Master Basin Study was an approximately 9 square mile project located geographically between Lake Tohopekaliga and East Lake Tohopekaliga in Osceola County, Florida. The study area, a mix of urban and rural land uses, is located predominantly within unincorporated Osceola County though roughly one-fifth of the study area lays within the city limits of Kissimmee, Florida. This study was jointly funded by Osceola County and the South Florida Water Management District.

To facilitate the data needs required for modeling, detailed digital topographic data and high quality aerial mapping were collected for this project. These data aided in the definition of drainage patterns, land usage and wetlands. Additionally, a detailed infrastructure inventory and conditions assessment was conducted of all primary drainage pathways and structures.

The project included the development of a detailed ICPR model to facilitate floodplain mapping and conduct a level of service assessment to identify deficiencies. A stormwater pollutant loading analysis was also conducted to identify needs for best management practices to improve water quality. Various improvement alternatives were conceptualized including culvert replacements, regional ponds for water quality, and outfall ditch bank restoration.

A public involvement component included the circulation of project newsletters to inform residents of the project status and to request information pertaining to area drainage issues.

As the prime consultant for this stormwater management project, Inwood was responsible for providing stormwater analysis, engineering assessments, floodplain mapping, evaluation of drainage improvement alternatives, water quality assessment and a public involvement program.

