MDWASW - WATER SUPPLY MASTER PLAN – COASTAL WETLANDS REHYDRATION DEMONSTRATION PROJECT - SITE CIVIL, MONITORING PLAN, PUBLIC INVOLVEMENT & STAKEHOLDER INPUT

Client Name: *Miami-Dade Water & Sewer Department/CDM (Prime)*
Type of Service: *Water Master Plan*

As part of the May 10, 2006 Interim Water Use Agreement with the South Florida Water Management District (District), the Miami Dade County Water and Sewer department (MDWASD) agreed to undertake a coastal wetlands reuse (rehydration) demonstration project in South Dade. The objectives of the project are to determine if the advanced wastewater technology (AWT) are able to deliver an appropriate level of treatment on a consistent basis, and to evaluate the ecological impact that the highly treated reclaimed water from the WWTP will have on the receiving wetlands. It is expected that advanced treated wastewater from this project will meet or exceed the standards for wastewater reuse as outlined by the Safe Drinking Water Act Maximum Contaminant Levels for potable and aquifer recharge applications and allow its reuse for restoration of an Outstanding Florida Water.

Milian, Swain & Assoc., Inc. (MSA) performed a review of readily available water quality, vegetation, soil, wetlands hydrologic, topographic, land use, and utility data to characterize the existing conditions of the subject areas, including the Cutler (formerly Lennar) Flow Way and nearby water bodies. To identify this baseline information, specific tasks performed included conducting a site visit of the subject areas to determine existing site conditions; obtaining and reviewing existing reports, investigations, and data regarding the subject area; and developing an inventory of existing conditions data including identification of data gaps. MSA developed a comprehensive monitoring plan to be implemented upon commencement of the operation of the demonstration plan.

MSA performed all civil design construction drawings & specifications for the project site and associated force mains from the plant site to the constructed wetlands, including points of connection. Submittals were made at 60% and 90%, and regulatory permits were obtained for the specific facilities.

In addition to engineering design and scientific analytical services, MSA provided large-scale facilitation services. For this effort, MSA scheduled, prepared, and facilitated two half day workshops to present recommendations and obtain comments from appropriate agencies and stakeholders. The facilitation of the workshops included preparation of all presenters' materials, including visuals, presentations, handouts, etc. Workshop notes were gathered and summarized. The purpose of the workshops was to gain consensus among various agencies to determine conditions and criteria for the demonstration project. Stakeholders included local, state and federal agencies. As a result of the input gathered from stakeholders, it was determined that the size and scale of the first phase of the demonstration project should be significantly changed to fully ensure the elimination eliminate any potential negative impact on subject flora and fauna of the highly treated reclaimed water.