



E-8 Canal Bank Stabilization

Port St. Lucie, Florida

Client Contact

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Dredging & Marine Consultants, LLC (DMC) was selected by the City of Port St. Lucie to evaluate and provide solutions to repair and stabilize 7,300 linear feet of failed drainage canal. DMC staff provided professional engineering and project management services including completing or coordinating survey, geotechnical investigation, environmental resource permitting, slope stability analysis, engineering design, cost estimation, bidding support, construction engineering inspection and grant reporting and administration. In addition to addressing the existing slope failures DMC provided a final product that was easy to access and maintain.

Key Elements

- Engineering Design
- Environmental Resource Permitting
- Construction Engineering and Inspection
- Environmental Resource Surveys
- Sovereign Submerged Lands Determination
- Shoreline Structure Survey
- Disposal Site Engineering and NRCS Grant Administration.

The project consisted of two phases: Phase I included researching the existing slope stability within the project limits, preparing a Geotechnical Analysis Report to include recommended improvement options, designing conceptual canal cross-sections for the recommended options, preparing cost estimates for each option and conducting an information meeting with City Staff to discuss and select a recommended improvement option. Phase II consisted of finalizing the typical canal cross-section, submittal of 60% and 90% completed plans for City review, preparation of construction plans and technical specifications, finalizing all cost estimates bid documents, obtaining any and all necessary permits, finalizing all cost estimates and bid documents and conducting a public informational meeting

Project Status

Project Start: 2012
 Project End: 2014
 Engineering Fees: \$280,000
 Construction Cost: \$4.8 Million

