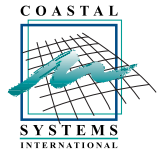


Ft. Zachary Taylor State Park, Florida



coastal engineering

Coastal Systems International, Inc. designed, permitted and supervised the implementation of the beach improvements at Fort Zachary Taylor State Park. The beach had historically been eroding at a rate of approximately 10 feet per year. Numerical modeling techniques were utilized to predict sand transport, evaluate the coastal processes influencing the project shoreline, and determine the effectiveness of shoreline stabilization alternatives. Coastal Systems' final designs included the placement of beachfill stabilized by a terminal groin and a system of detached, offshore breakwaters in 1997. In 2001, Coastal Systems designed a maintenance project for the coastal structures and the beach under the existing permit. Construction administration and hydrographic surveying services were provided. In response to the impacts of the 2004 and 2005 hurricane seasons, a truck haul beach nourishment project was designed, permitted and constructed in 2007. Beach profiles and marine resource surveys were completed along with construction plans and specifications.



Ft. Zachary Taylor State Park (truck haul)



Renourished Beach and Breakwaters



2007 Truck-Haul in Progress

Client:	Florida Department of Environmental Protection
Location:	Key West, Florida
Date of Completion:	2007
Construction Cost:	\$500,000 (truck haul)

