

Countywide Shoreline Management

Indian River County, Florida

Named the ASBPA 2005 Top Restored Beach

Project Summary

ATM has provided Indian River County with professional services since 1999. ATM has assisted the county in the permitting, design, and construction of three beach nourishment projects, an artificial reef, and two dune enhancement projects. The initial beach nourishment project (Sectors 1 and 2 Ambersand) was constructed in 2003, and placed approximately 574,000 cubic yards (cy) of sand along 2.5 miles of shoreline. ATM has performed post-project monitoring of the project performance and biological communities. The 2004 Atlantic storm season resulted in direct impacts to the county's shoreline from two tropical storms, Hurricanes Frances and Jeanne. A reduction in storm-related insurance claims was attributable to the presence of the Sectors 1 and 2 beach nourishment project. The reduction in property damage and insurance claims due to the presence of the project exceeded the costs of the project. As part of the 2003 project, approximately 6.6 acres of compensatory mitigation reef were constructed in the nearshore region south of the project. The 2003 project was a recipient of the 2005 award for American Shore and Beach Preservations Association's Top Restored Beach.



In response to direct impacts from Hurricanes Frances and Jeanne during the 2004 storm season, ATM obtained project permits, performed project design, and provided construction-phase services for two dune projects. This FEMA dune project was constructed in 2005 for Sectors 3 and 5, and placed a total of approximately 200,000 cy of sand along the dune system.

The two most recent beach nourishment projects were the renourishment of Sectors 1 and 2 Ambersand and initial construction of Sector 7 in the spring of 2007. The renourishment of Sectors 1 and 2 was in response to the 2004 storm impacts and funded primarily by FEMA. It required extensive Florida Department of Environmental Protection permitting. The Sectors 1 and 2 renourishment project will place a total of 258,000 cy of sand and the Sector 7 project will place 363,000 cy of sand along approximately 2 miles of shoreline. For both of the 2007 projects, the ATM team developed an unprecedented biological monitoring protocol in conjunction with Indian River County and the regulatory agencies because of the presence of extensive nearshore hardbottom and ecological resources. Furthermore, the Sectors 1 and 2 project required the coordination with the Sebastian Inlet District, resulting in successful dredging of the inlet's sand trap and placing the sand on the county's beaches.

ATM has assisted Indian River County with its coastal management program for over 10 years and continues to support them today.