

State of Florida

City of Naples Oyster Habitat Restoration Design and Permitting

Location
Collier County,
Florida



ESA Scheda is currently the prime consultant for a large-scale oyster habitat restoration project in Naples Bay. ESA Scheda scientists worked closely with the coastal engineer, Taylor Engineers, Inc., to review existing data, identify potential oyster habitat restoration sites and, subsequently, design and permit the reefs. The data collection effort included historical analysis of oyster habitat in Naples Bay, bathymetric data, hydrodynamic modeling, boat wake assessments, water quality conditions, and substrate analysis. Numerous field considerations were incorporated into the design.

The final design employed wave-attenuating structures that protect oyster pods strategically located in a protected cove. The team is currently assisting the City with probable costs associated with construction. In addition, Mote Marine Laboratory was part of the ESA Scheda team and developed a water clarity model to identify potential seagrass restoration areas within Naples Bay.