



SHORELINE RESTORATION

Preliminary Engineering Report (PER)

In 1946, the City of San Diego began dredging a former marshland known as False Bay to create Mission Bay Park. By 1964, Mission Bay offered open waters suitable for boating, along with extensive shorelines and beaches that included new land areas formed from the soils and sand removed from below the water.

Since the 1960s, coastal erosion at Mission Bay has required extensive beach maintenance. Maintenance activities include dredging, grooming and cleaning, removing debris, and adding sand. The Shoreline Restoration PER was designed to help reduce erosion, minimize impacts and ongoing maintenance costs, and improve overall beach and shoreline quality. The team consulted with the San Diego Audubon Society and local resource agencies to help develop the recommendations incorporated in the PER.

Considerations:

Factors that may impact the severity of erosion at shorelines in Mission Bay Park include:

- Topography, land use and existing shoreline protection structures
- Hydrology of drainage areas and storm drain outfalls
- Measured and astronomical tides
- Sea level rise (evaluated for State of CA OPC's 2018 projections to year 2100)
- Flood maps
- Wind, vessel and swell waves (greatest height expected 1.9 feet)

Proposed Improvements

Improvement Area	Recommendations
Vacation Island Northwest	<ul style="list-style-type: none"> • Add two sand retention rock groins with pedestrian access • Widen and elevate the beach
Vacation Island Northeast	<ul style="list-style-type: none"> • Repair and raise crest height of riprap • Add a drainage ditch for runoff flows • Extend Ski Beach to 100 ft. wide with a cobble berm
Vacation Island Southwest	<ul style="list-style-type: none"> • Improve and raise crest height of riprap • Bury riprap within a raised beach area • Add landscaping, benches, and bonfire facilities • Improve oyster habitat
Ventura Cove Park	<ul style="list-style-type: none"> • Repair and raise crest height of riprap • Add footpath parallel to riprap • Improve oyster habitat
Crown Point	<ul style="list-style-type: none"> • Extend seawall 150 ft. southeast. • Beach fill strategically placed at northern and southern areas of the seawall
West Sail Bay	<ul style="list-style-type: none"> • Provide beach nourishment along 1/4-mile to develop a 75-foot-wide beach berm and 50-foot-wide beach slope • The beach width at the narrowest location would expand from 20 feet to 90 feet at high tide
Bonita Cove	<ul style="list-style-type: none"> • Relocate sidewalk up to 30 ft. inland • Extend beach to 100 ft. wide • Add cobble berm to reduce erosion
Bahia Point	<ul style="list-style-type: none"> • Widen beach and add paths for maintenance vehicles • Install cobble breakwater and sheet wall groins to reduce erosion • Add stormwater improvements



Opportunity Areas

The Shoreline Restoration PER identifies activities that can improve shorelines throughout Mission Bay and can reduce the need for regular beach replenishment in the areas shown below.

- Bahia Point
- Bonita Cove
- Crown Point
- Vacation Island NE/Ski Beach
- Vacation Island NW
- Vacation Island SW
- Ventura Cove Park
- West Sail Bay



Project Area



Sensitive Habitats and Species

Eelgrass beds, a beneficial coastal marine habitat, would be improved by the Program. While eelgrass habitat may be reduced at the Shoreline Restoration locations, it would be planted at

- North Fiesta Island Wetlands
- Tecolote Creek Wetlands
- Cudahy Creek Wetlands

The shorelines of Mission Bay Park provide homes for 23 bird species including the sensitive California Least Tern and Western Snowy Plover. Construction activities will be restricted during nesting seasons for the sensitive species.

*Western
Snowy
Plover*



*California
Least Tern
chick*



Other Topics Covered in the Program EIR:

The Mission Bay Park Improvements Program EIR includes Preliminary Engineering Reports on each of the Report topics listed below. To obtain fact sheets for the other reports, please visit www.sandiego.gov/mbpeir.

- **Bicycle and Pedestrian Paths**
- **Deferred Maintenance**
- **Seawall Restoration**
- **Shoreline Restoration**
- **Wayfinding Improvements**
- **Wetland and Water Quality Improvements**
 - Cudahy Creek
 - North Fiesta Island
 - Tecolote Creek
- **Upland Habitat Expansion**