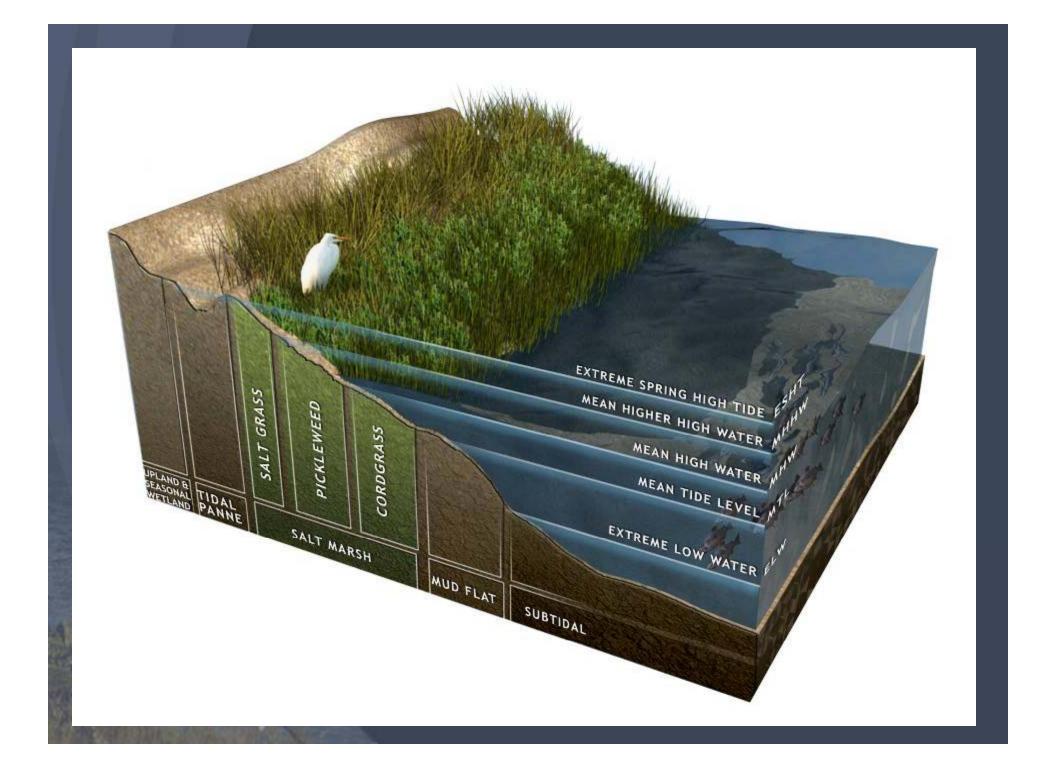


As The Result Of Being Isolated From Ocean Tides For 100 Years, And Oil Field Operations For 50 Years -

The Site Suffered From:

- Habitat Degradation And
- Declination Of Endangered Species



#### BOLSA CHICA LOWLANDS RESTORATION



- Subtidal- 175 acres
- Intertidal Habitat-122 acres
- Low Saltmarsh- 50 acres
- Mid-High Saltmarsh- 19 acres
- Connected to the Sea with a New Inlet

#### BOLSA CHICA LOWLANDS RESTORATION

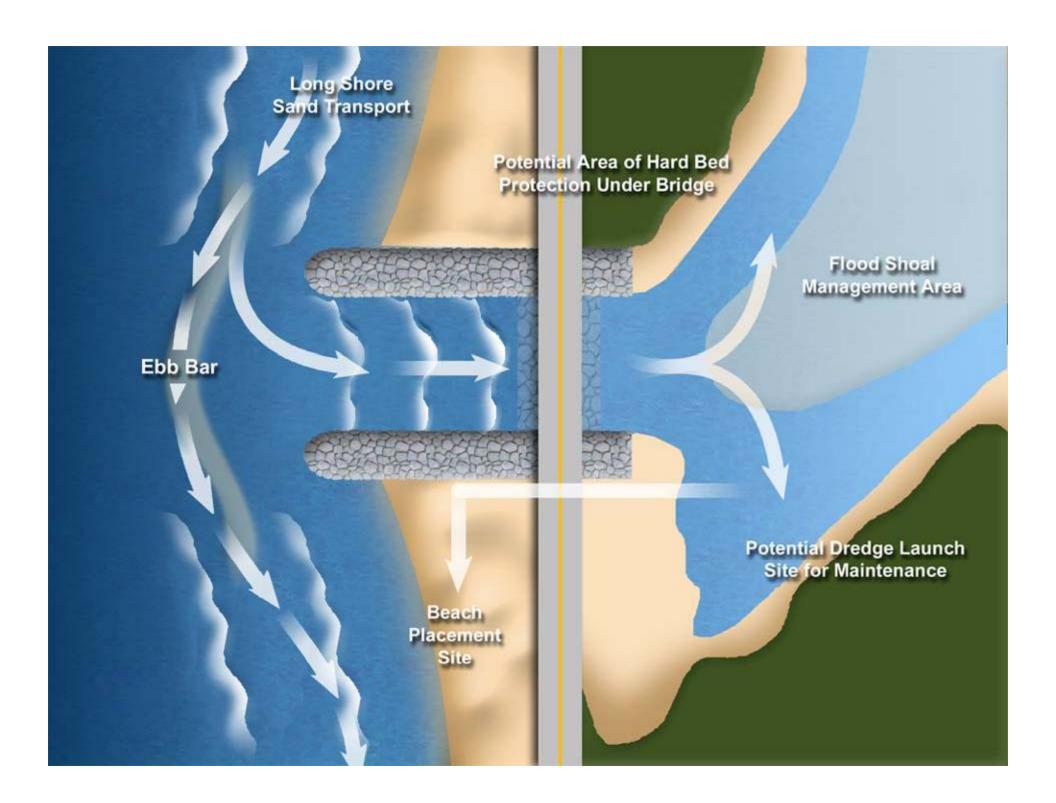


- 220 Acres
- Minimal Grading
- Connected to the Full Tidal Basin with Culverts
- Muted Ocean Tidal Range
  - 0 to +0.8 meters NAVD

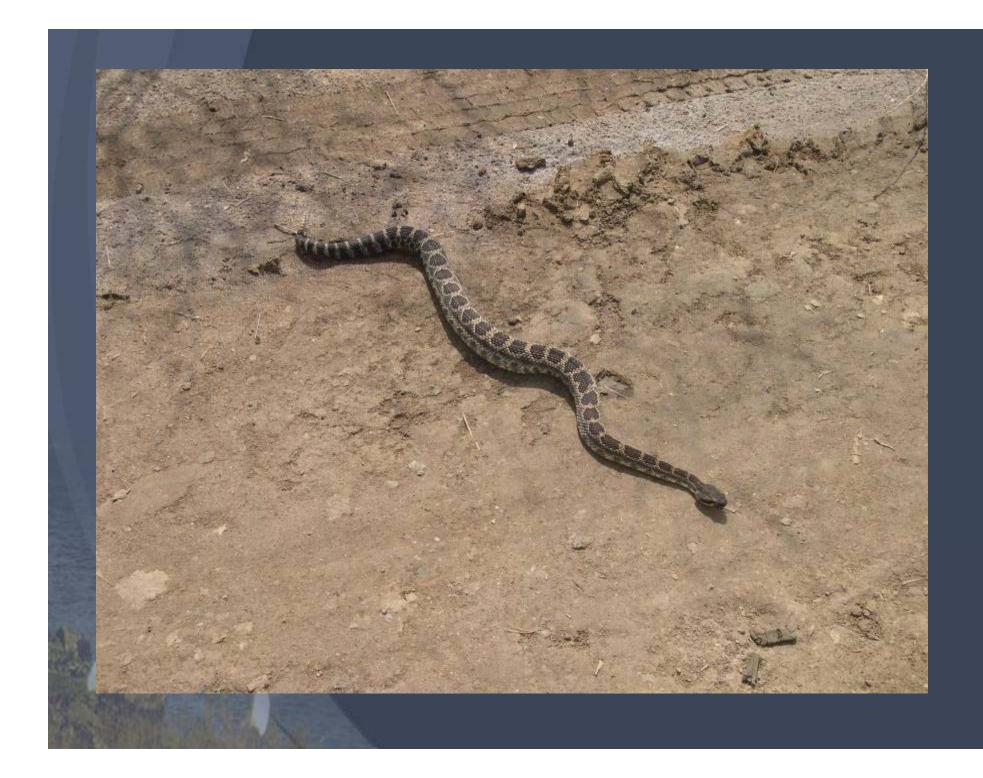
### BOLSA CHICA LOWLANDS RESTORATION

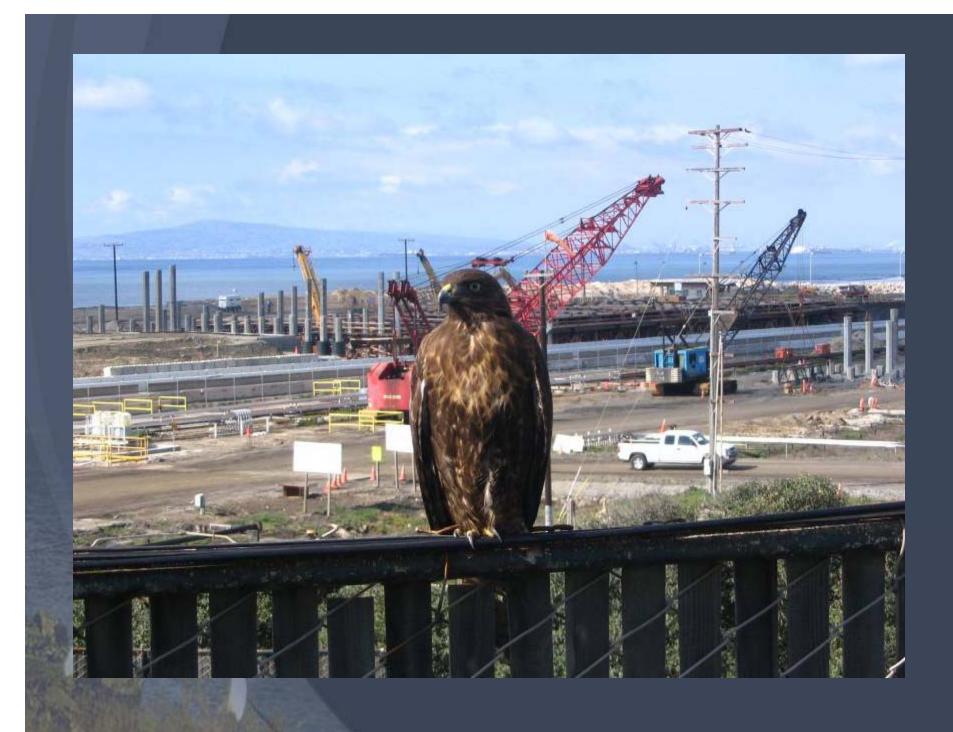


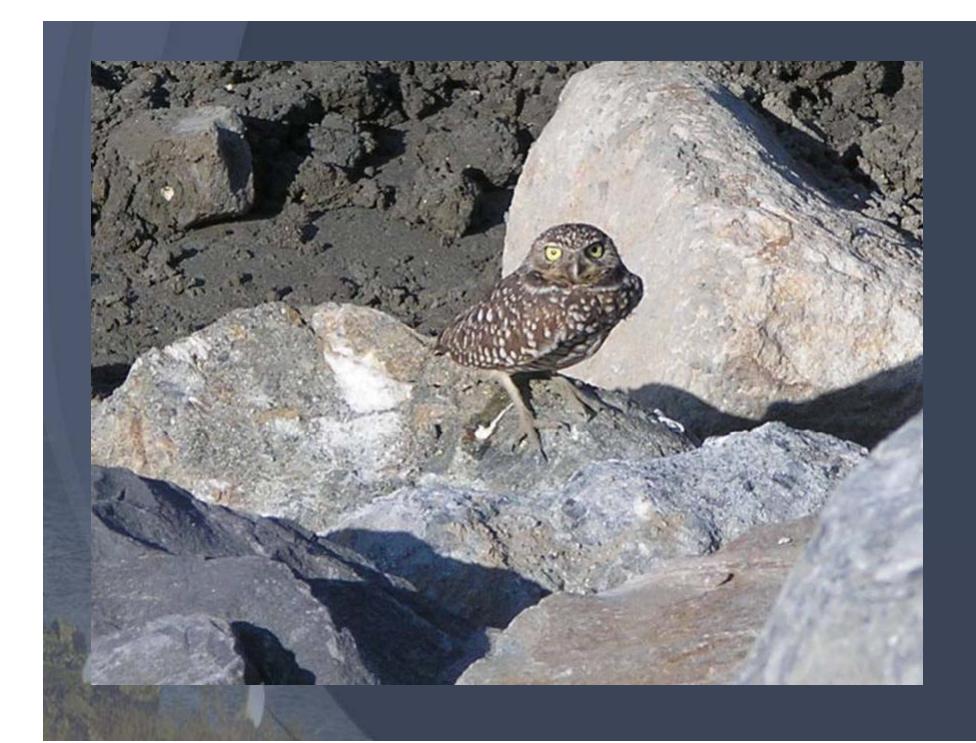
- 38 Acres
- Minimal Grading
- Connected to the Outer Bolsa Bay with Culverts
- Muted Ocean Tidal Range



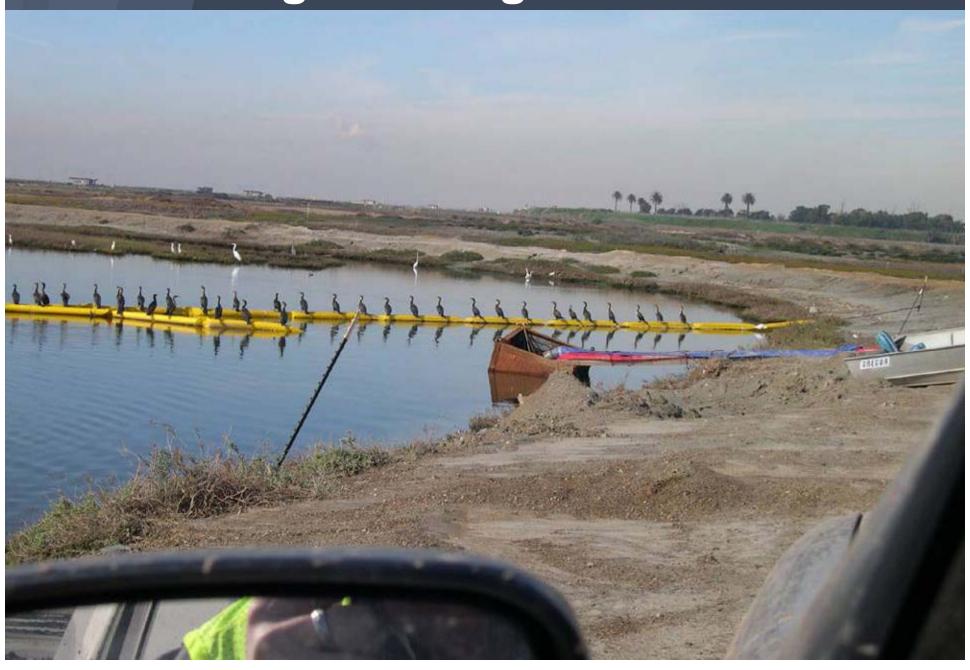




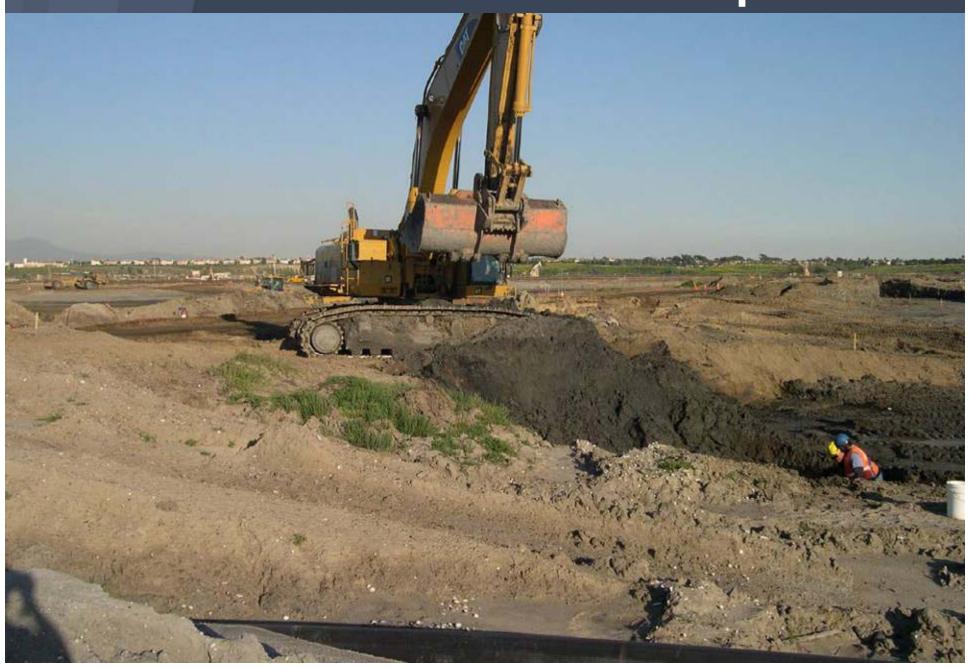


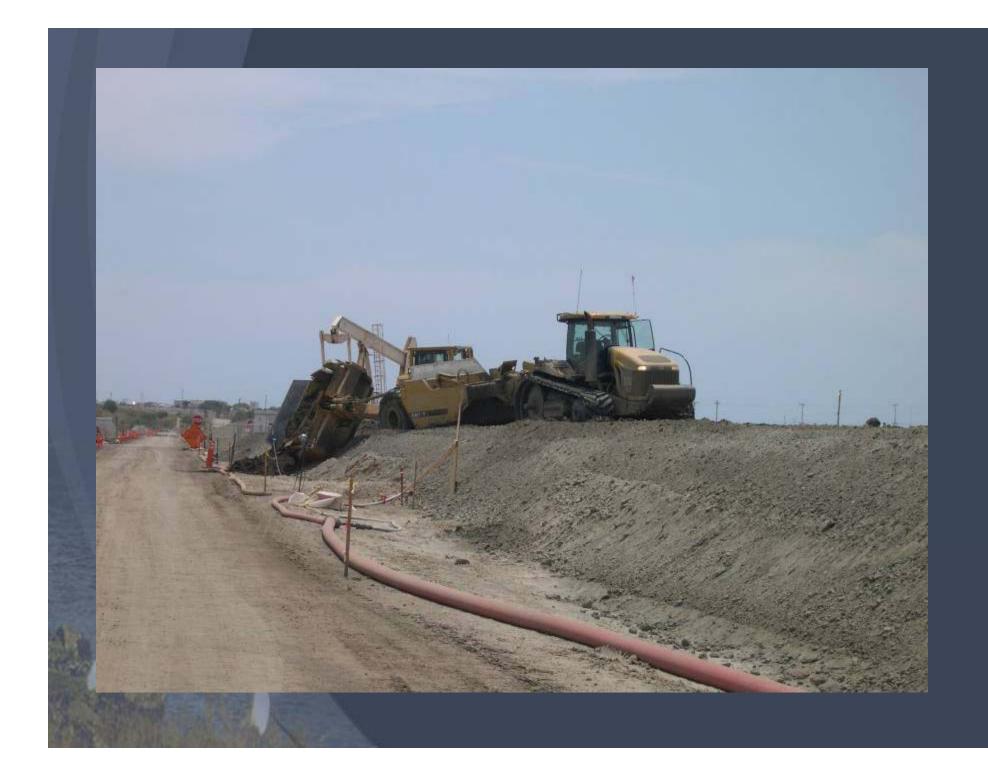


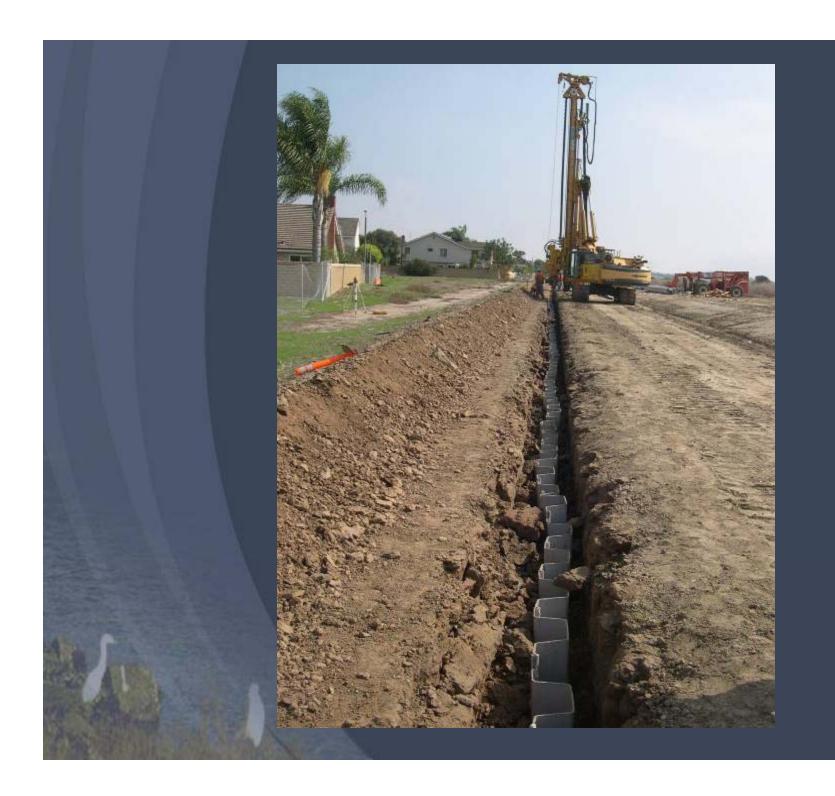
## **Dewatering Discharge and Stoic Birds**



# **Contamination Clean-Up**

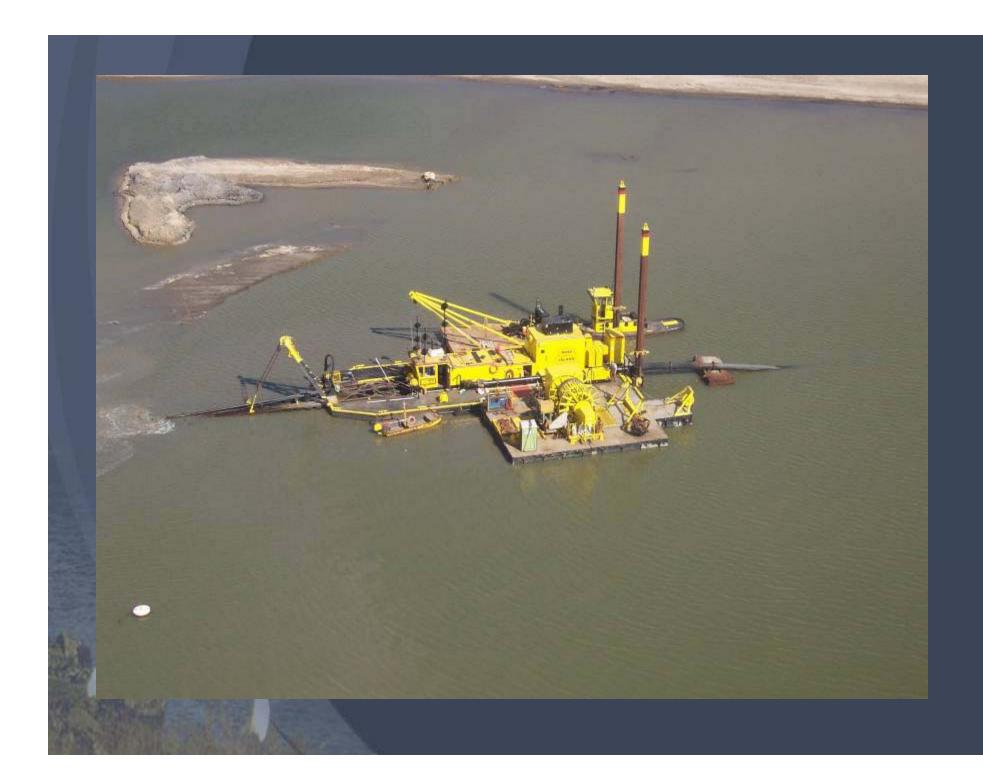


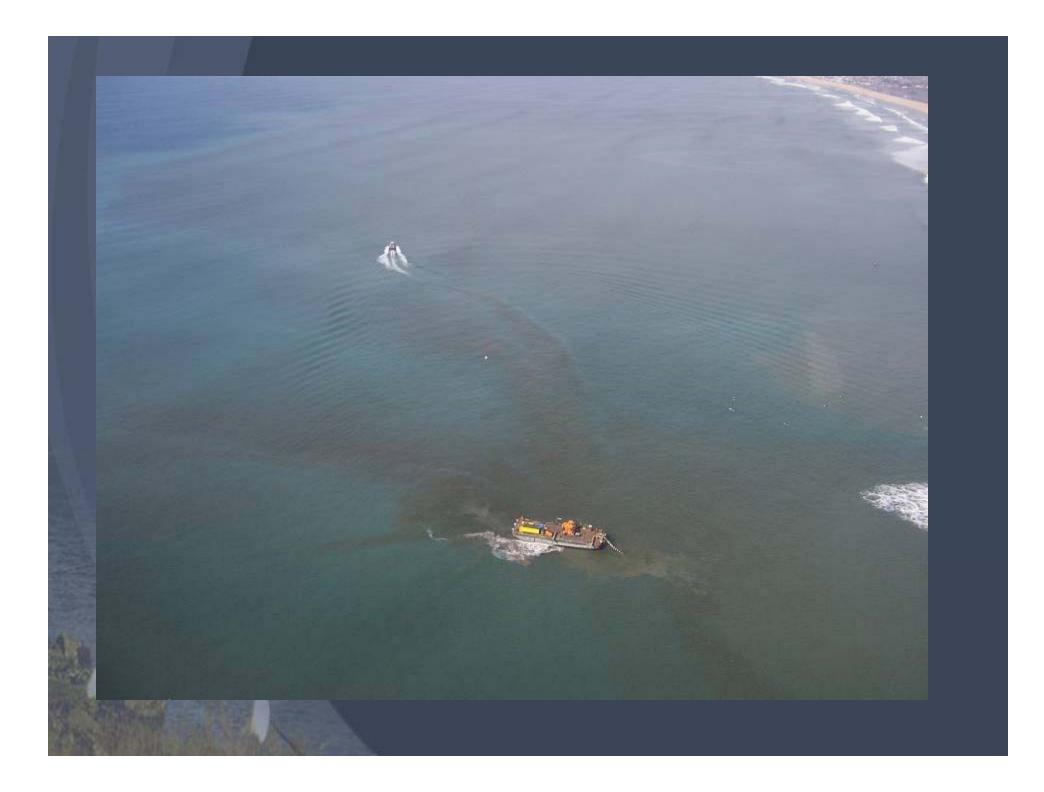




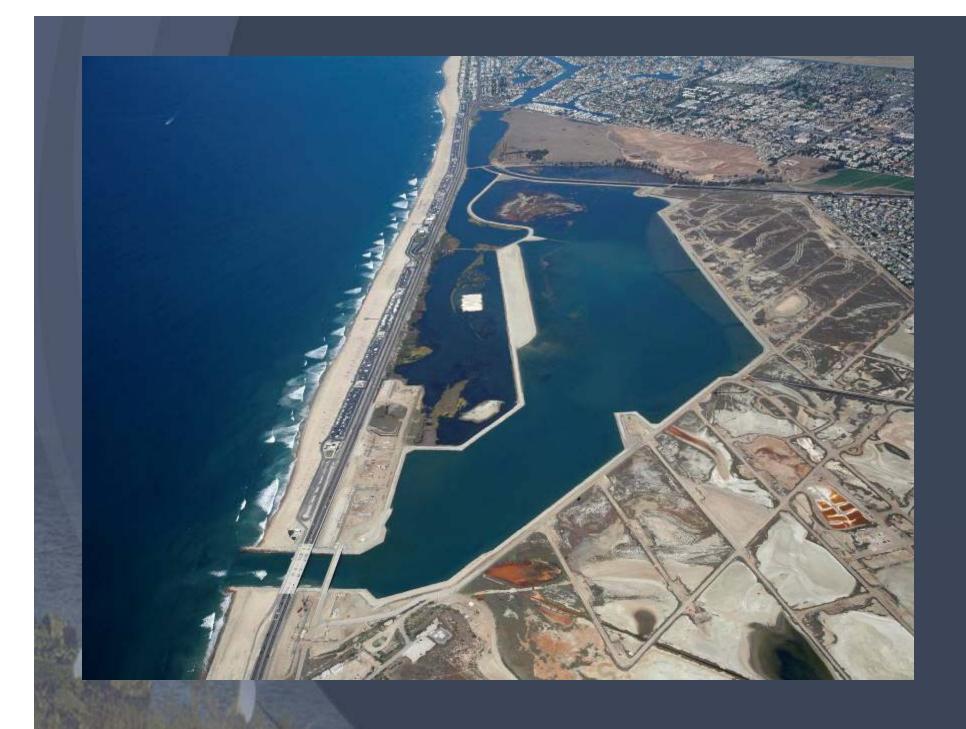
### Water Control Weir Constructed

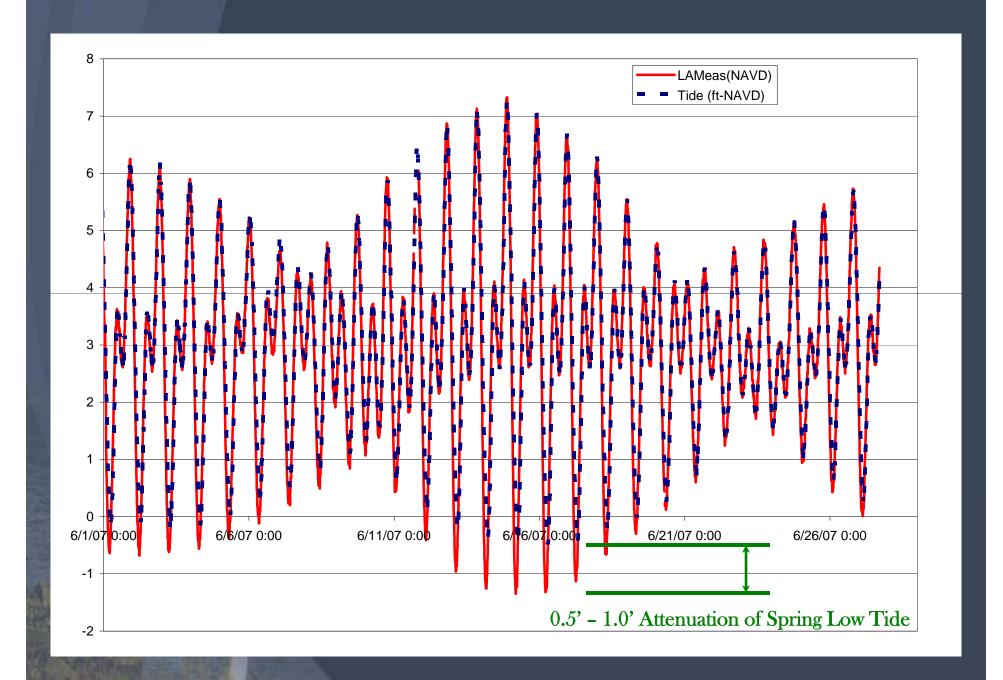






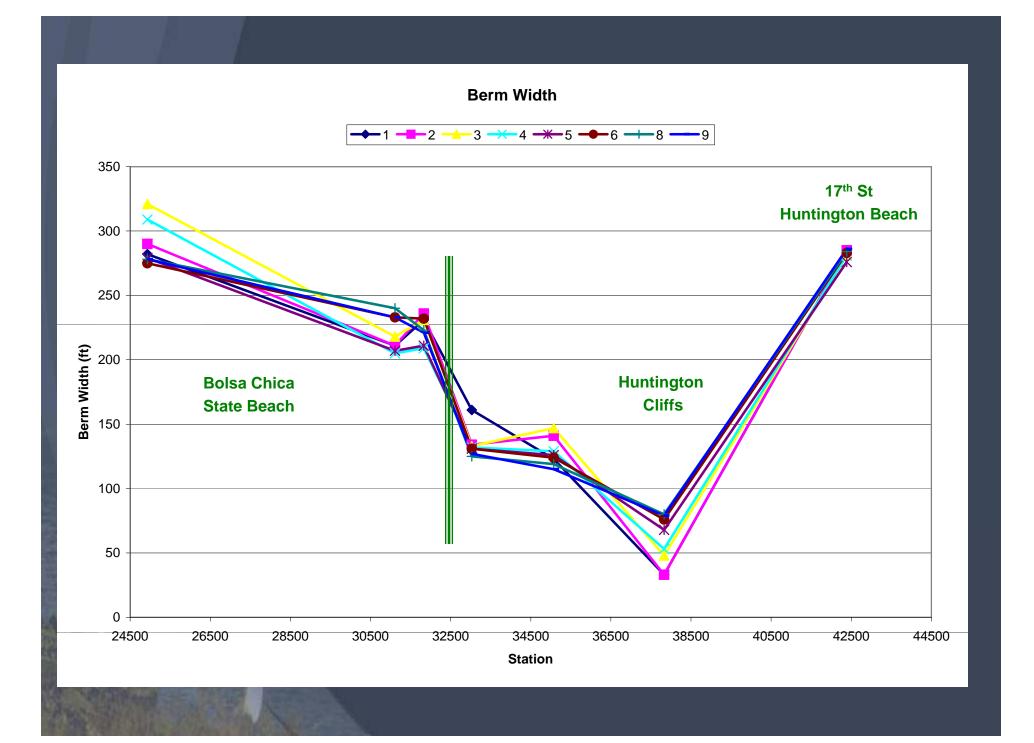








• Monthly Berm & MSL Measurements • Quarterly On/Offshore Profiles New Entrance Channel 2 km



## SUMMARY

- > OVERALL
  - Project successfully installed and is being monitored for function and maintenance needs
  - > CDFG is site caretaker, while State Lands is owner and monitor
- > TIDAL BASIN HYDROLOGIC FUNCTION
  - > Successful, with minor tidal attenuation and short time lag.
- > HABITAT SUPPORT
  - Critical hydrodynamics to support habitat achieved without negative physical impacts
  - Muted tidal basin yet to be opened (oil co delay)
- FLOOD SHOAL
  - Shoaling is occurring as predicted
  - Maintenance dredging to occur likely in 2008 or 2009
- > BEACH
  - > Equilibrating near inlet
  - 'Erosion trend not apparent