Lagoon Restoration in San Diego County





Translet Environmental Mitigation Program



Large scale acquisition, management, and monitoring



Reduce cost, accelerate delivery, implement habitat plans, and reduce listing of species



I-5 North Coast Corridor (NCC) - Program Scope

- \$6 Billion/40 -year project
 - Four Express Lanes on I-5
 - Completing LOSSAN Double track
 - Improve Coastal Access
 - Coastal Habitat Improvements
- 27 miles
- Coastal Commission
 approval August 2014



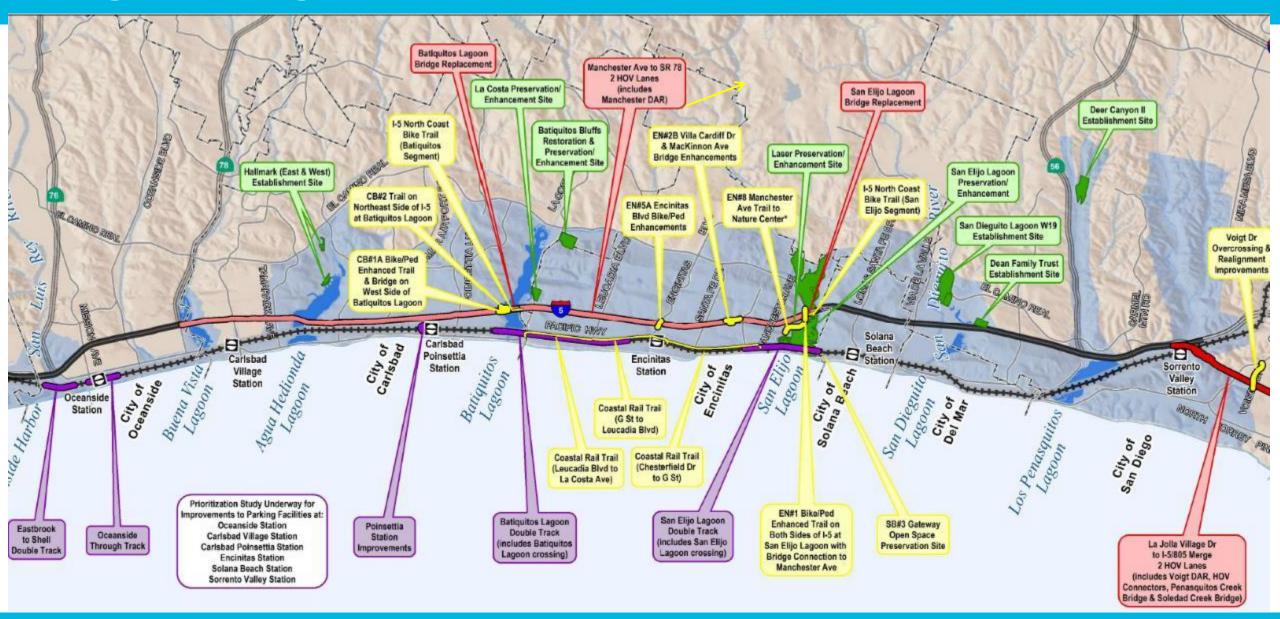


Diversity of Different Projects & Project Types

- Protect and enhance the North Coast Corridor coastal habitat
 - Mitigation typical mitigation as well as enhancement opportunities
- Improve coastal access and connectivity
 - Community enhancements across highway and railway (east/west)
 - Enhanced access along corridor (north/south)
- Move people, not just cars
 - Transit Enhanced coastal bus and HOV Rapid bus
 - Freeway improvements along I-5
 - Railroad double-tracking and replacement of old infrastructure



Regional Lagoon Context



SANDAG

Improving the Coastal Environment



NORTH No Scale

Regional Lagoon Context

 Total 6 coastal lagoons in Northern San Diego County





Regional Lagoon Context

- Affected by infrastructure, agriculture and surrounding development but somewhat intact (e.g. not dredged for harbors, no oil & gas)
- Environmentally sensitive, but still presents restoration/enhancement opportunity





Multiple Mitigation Sites

Compensatory Mitigation

Agua Hedionda Lagoon



San Dieguito Lagoon W-19 Restoration Project







Hallmark West





San Dieguito Lagoon, W-19 Restoration Project





San Dieguito Lagoon: Current Conditions

- Publically owned with established land manager
- Remnant Agricultural Land
- Planned for restoration; adjacent to SCE restoration project
- Within San Dieguito River Park (trails and public access)
- Previously determined feasible for restoration









San Dieguito Lagoon: Purpose & Objectives

Purpose

 Establish tidal wetlands and associated habitats as mitigation for coastal transportation projects

Objectives

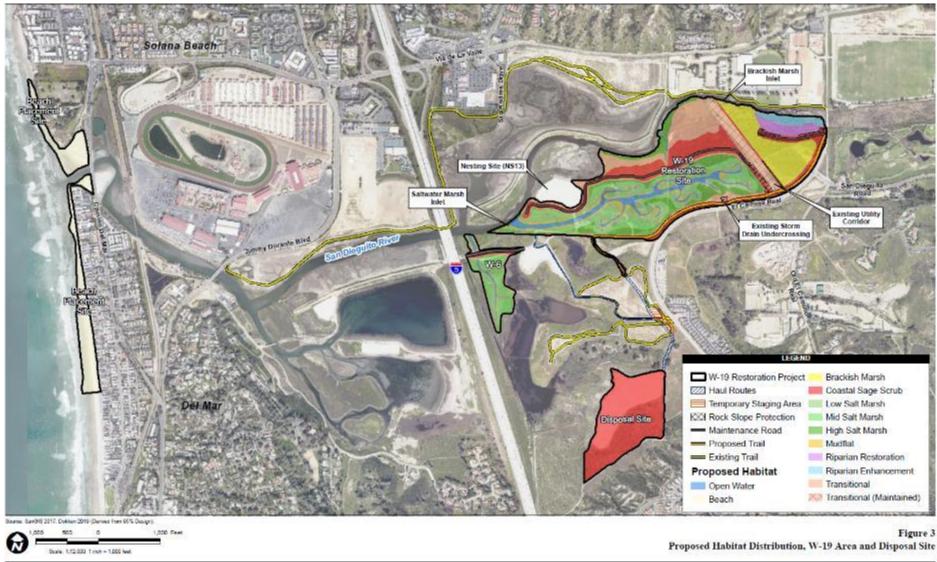
- Establish 50 acres of coastal wetlands and upland mitigation
- Establish approx. 15 acres of brackish wetlands and 5 acres of riparian restoration/enhancement for El Camino Real Bridge Replacement Project
- Promote sustainable system resilient against sea level rise.
- Enhance trail connectivity and public access
- Complement adjacent restoration efforts and be compatible with existing Southern Cal Edison (SCE) agreements
- Maintain coastal littoral zone conditions along the beach/coastline.
- Maintain or enhance current flood protection







San Dieguito Lagoon: Project Boundaries



San Dieguito Lagoon W-19 Restoration Project



San Dieguito Lagoon: Design Process and Analysis

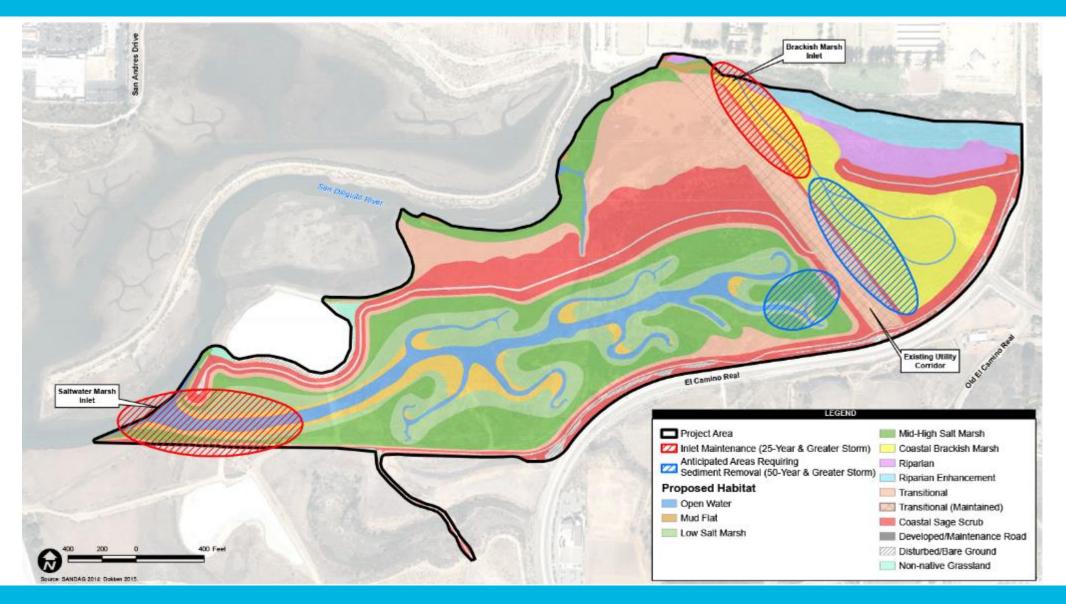
Extensive Hydraulic Modeling

- Fluvial and Tidal modeling
- Two dimensional fluvial model (Army Corps of Engineers)
- Predicted some tidal muting in adjacent restored wetlands
- Material Disposal
 - Earthmoving up to 1.1 million cubic yards of material
 - Onsite disposal critical to project feasibility
- Maintenance/Management In Perpetuity
 - W-19 inlet maintenance after large storm events anticipated
 - Materials viable for beneficial reuse so beach placement anticipated
 - Importance of maintaining sediment delivery to beach
 - Placement north and south on beach at river inlet (combined with SCE)





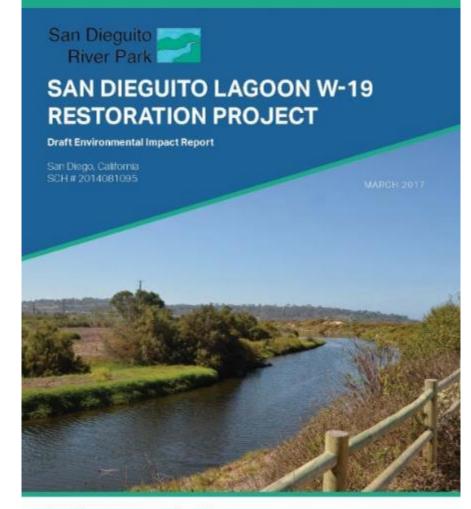
San Dieguito Lagoon: Proposed Project





San Dieguito Lagoon: Current Status

- Final EIR Certified November 2018
- Permitting is complete
- 100% Design underway
- Completing written agreements with participating stakeholders
 - SCE
 - City of San Diego
- Construction anticipated fall 2021



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Срокки

AECO



Multiple Mitigation Sites

Inlet Maintenance

Los Penasquitos Lagoon



Batiquitos Lagoon





Los Penasquitos Lagoon









Batiquitos Lagoon









Multiple Mitigation Sites

Regional Lagoon Enhancement

San Elijo Lagoon Restoration Project



Buena Vista Lagoon Enhancement Project





Keep San Diego Moving

Buena Vista Lagoon Enhancement







Keep San Diego Moving

"The analysis indicated it is likely that all of the existing open water area, except for a small flow channel, will evolve to vegetated habitat within the next 50 years." Page vii Feasibility Study (2004)



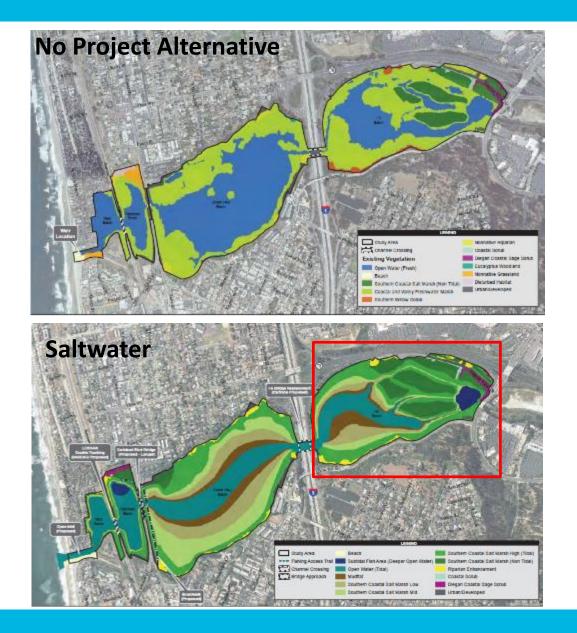


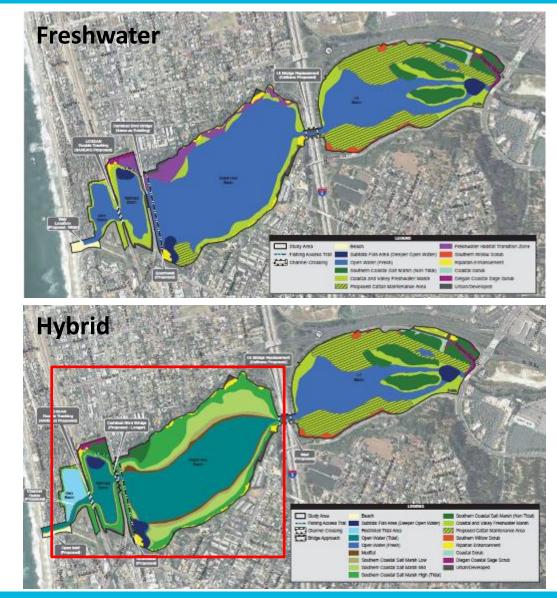
Location and Ownership





Prior Alternatives





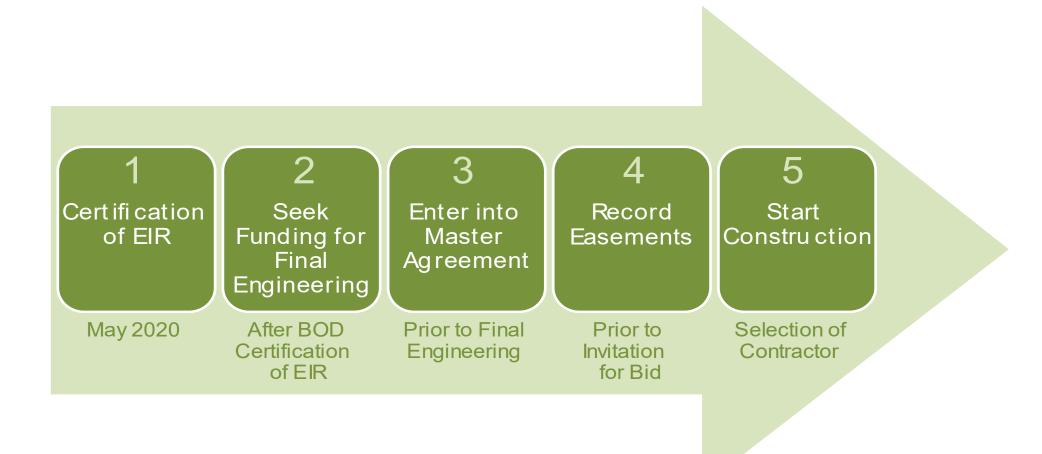


Modified Saltwater Alternative





Next Steps





Thank You!



Questions?

