



Navigating the South San Francisco Bay Shoreline

A Conversation of the Shoreline Project in North San José and Santa Clara - August 2, 2023

Project website: www.valleywater.org/shoreline



Valley Water

Our Mission:

Provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

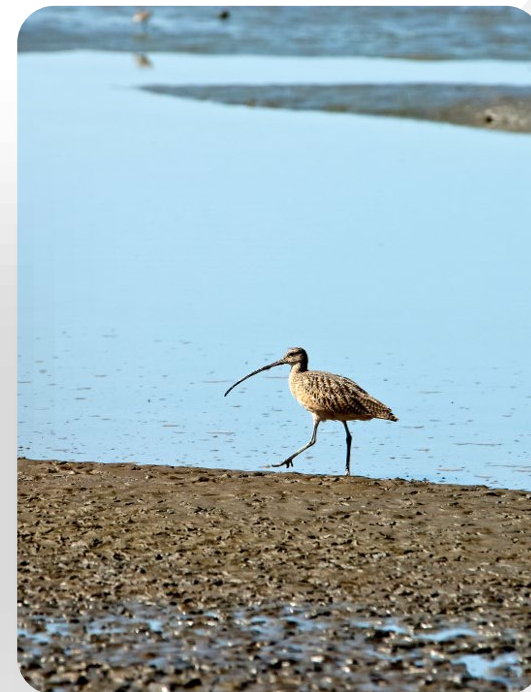
Three Key Goals:



Clean, Reliable Water Supply



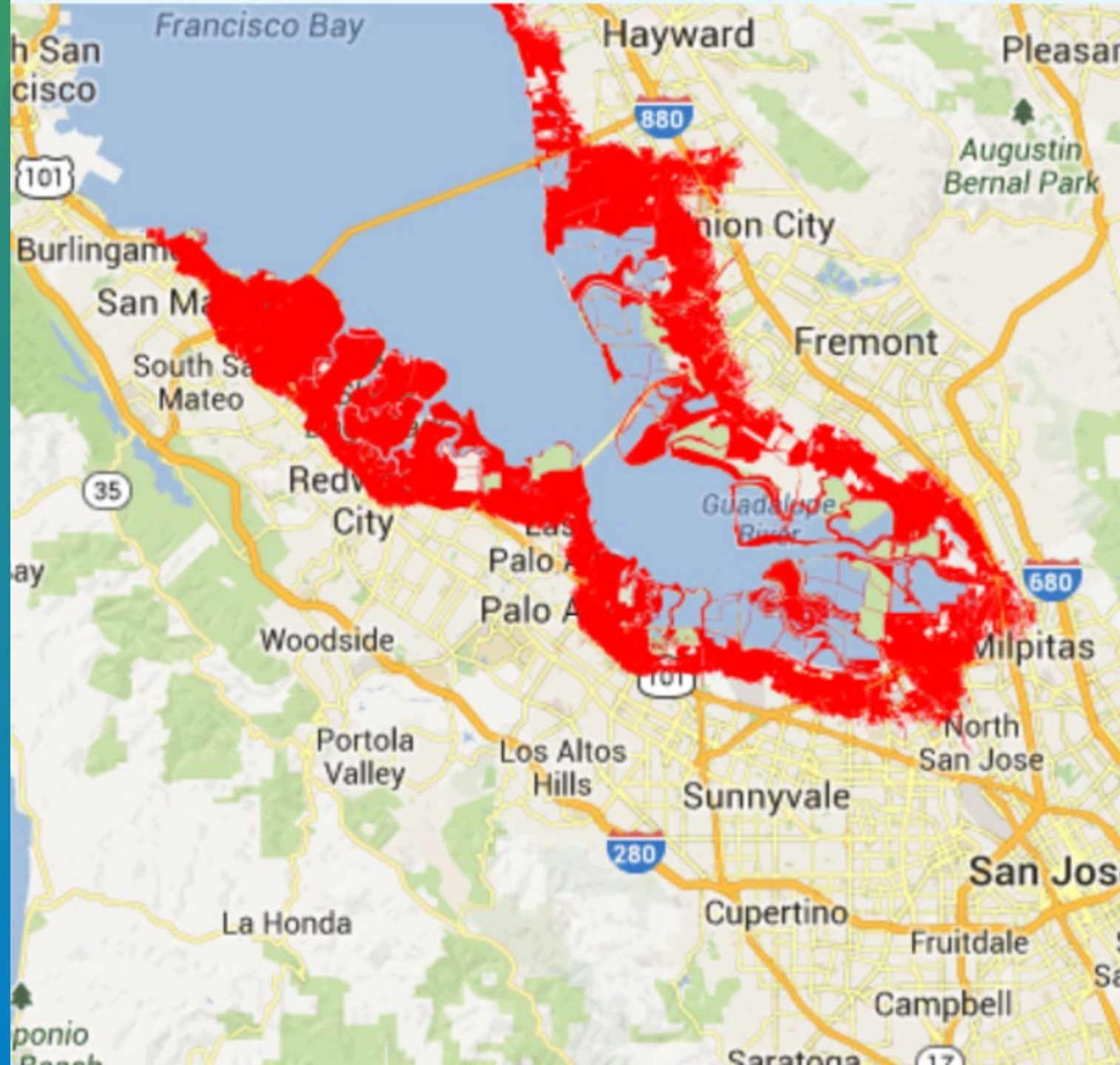
Flood Protection



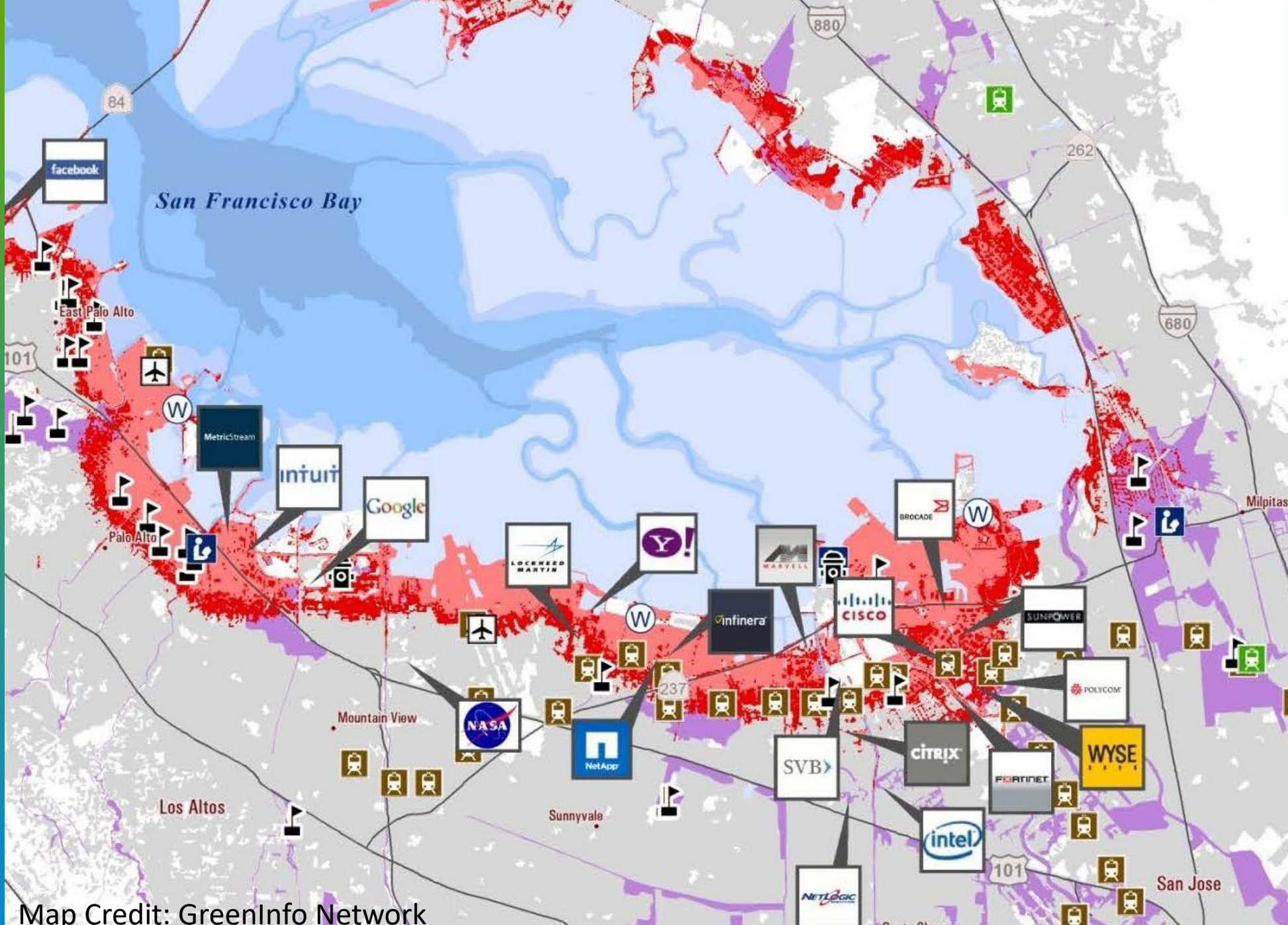
Environmental Stewardship

Sea Level Rise and Coastal Flood Risk in the South San Francisco Bay

Sea level rise increases flood risk.



Potential Impacts

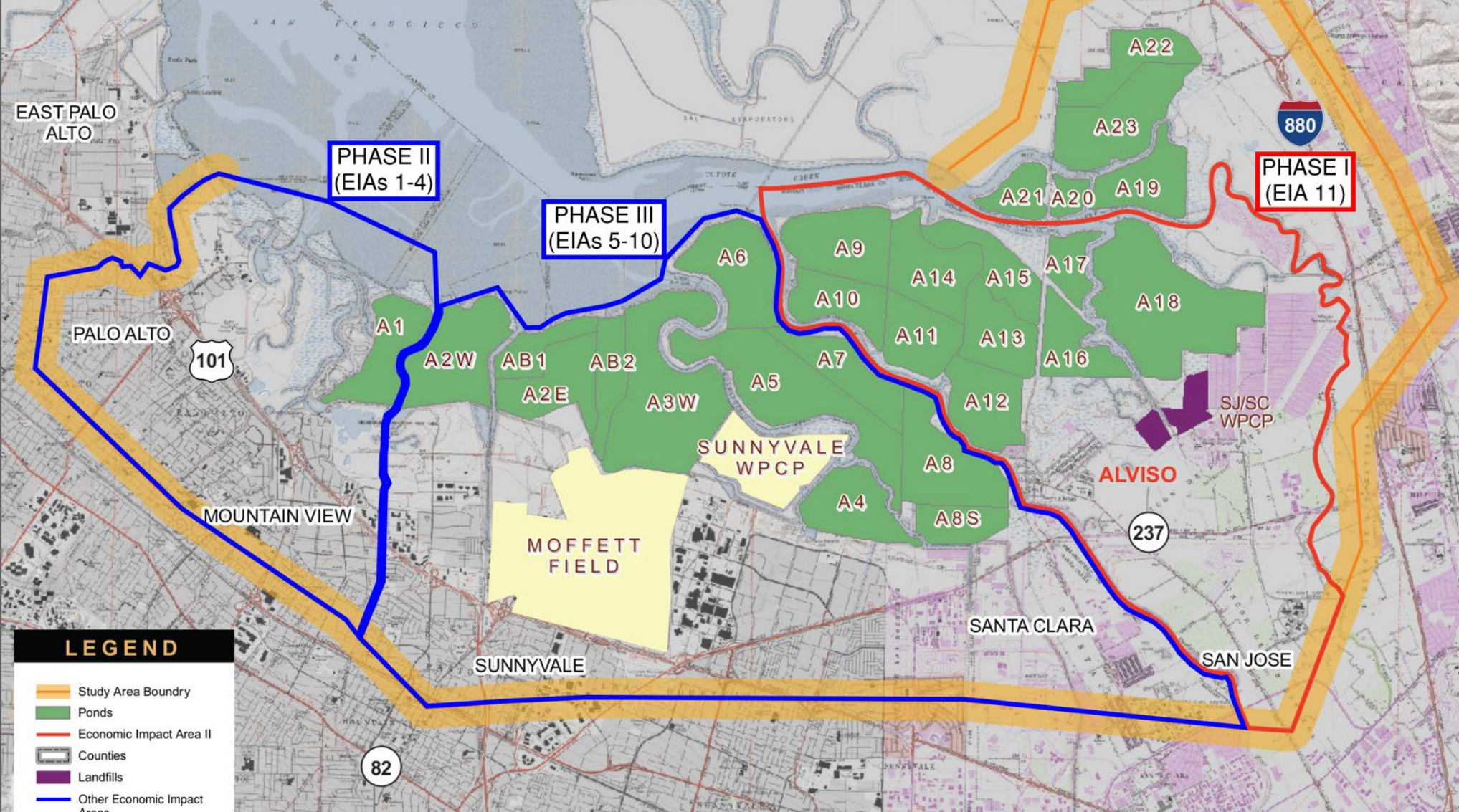


Points of Interest (within at-risk areas)

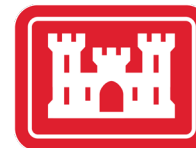
- Airport
- Fire Station
- Library
- Water Treatment
- School
- Light Rail Station
- Future BART Station

- Area vulnerable to an approx. 16 inch sea level rise
- Area vulnerable to an approx. 55 inch sea level rise
- Area at risk of a 100-year flood event
- Salt Ponds / Wetlands
- Urban Development

Map Credit: GreenInfo Network



Project Partners



US Army Corps of Engineers®



Valley Water



Coastal Conservancy

South San Francisco Bay Shoreline Project

Key Objectives: Reduce coastal flood risk, provide resiliency to sea level rise, restore habitat, and expand public access

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PHASE 1 PROJECT BACKGROUND



- Location: Vicinity of Alviso neighborhood in San Jose, CA
- Purpose: Deliver flood risk management, ecosystem restoration, and recreation benefits
- Non-federal sponsors: Valley Water (VW) and State Coastal Conservancy (SCC)
- Total estimated cost: \$545M (\$236M federal, \$309M non-federal)
- Key past milestones:
 - Feasibility study completed in 2015
 - Congress authorized construction in 2016
 - Congress appropriated initial construction funding in 2018
 - Construction agreement executed between USACE, VW, and SCC in 2019
 - Reaches 1-3 levee contract awarded in 2021

South San Francisco Bay Shoreline Phase 1 Project Area





PROJECT BENEFITS/SCOPE



FLOOD RISK MANAGEMENT

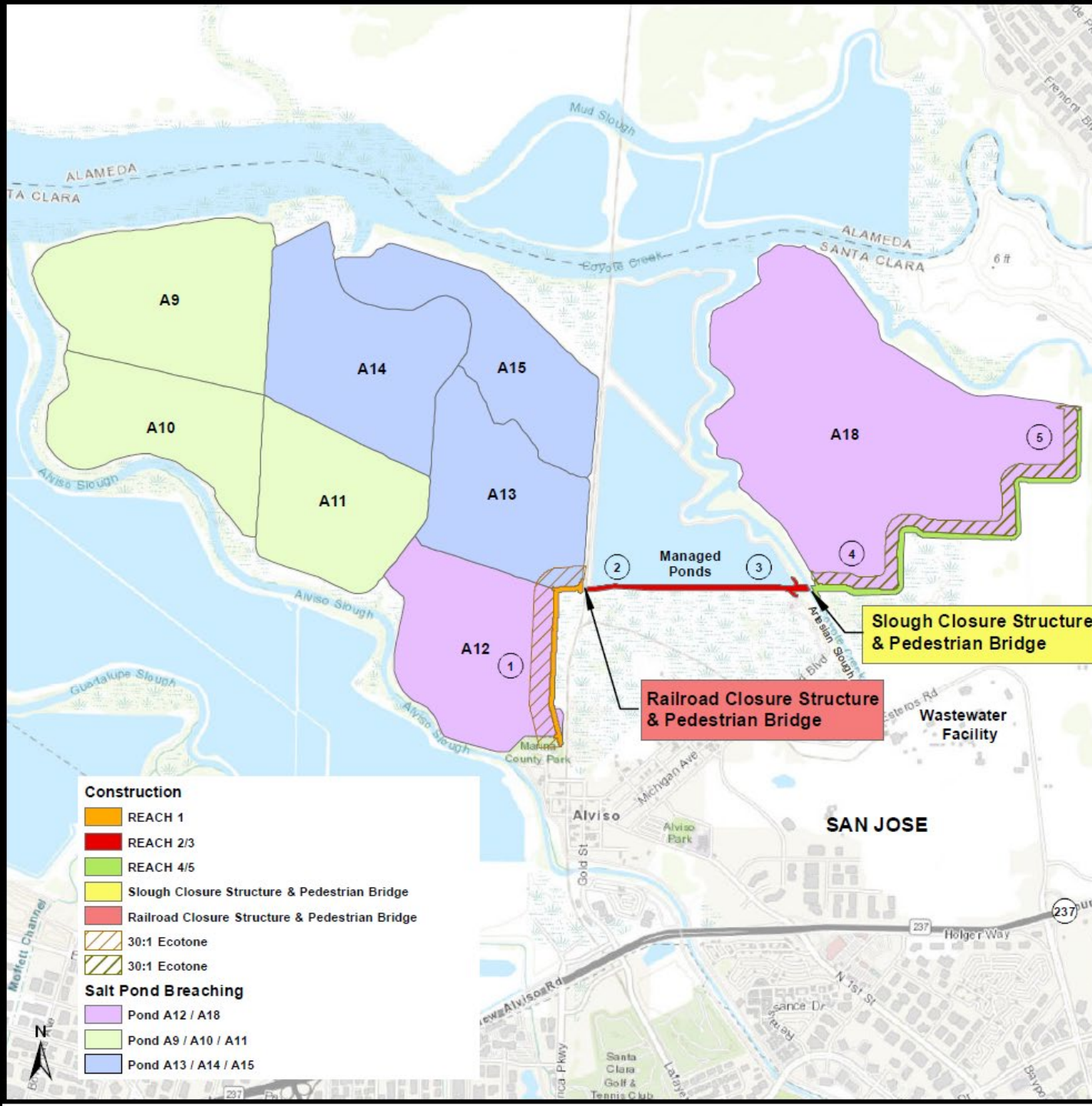
- Improve flood risk management for ~5,500 people and ~1,100 structures, including regional wastewater facility
- 4-mile-long levee with 15.2' NAVD 88 crest elevation, including 2 closure structures

ECOSYSTEM RESTORATION

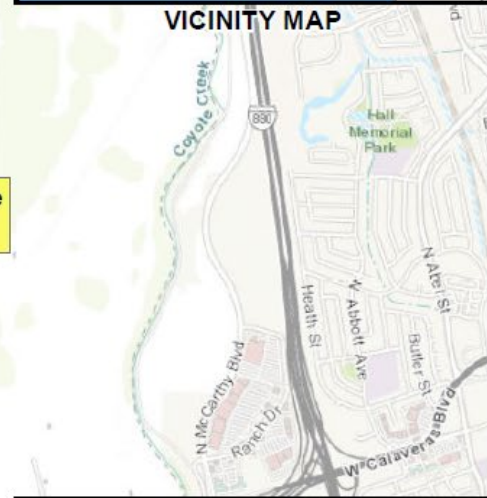
- Restore ~2,900 acres of former salt ponds to tidal marsh habitat
- Implement ecotone to provide varied tidal marsh and transition zone habitat

RECREATION

- Implement public trails on top of new levees and pedestrian bridges over closure structure locations, providing key connections to other existing recreational trails



VICINITY MAP



- Construction**
- REACH 1
 - REACH 2/3
 - REACH 4/5
 - Slough Closure Structure & Pedestrian Bridge
 - Railroad Closure Structure & Pedestrian Bridge
 - 30:1 Ecotone
 - 30:1 Ecotone
- Salt Pond Breaching**
- Pond A12 / A18
 - Pond A9 / A10 / A11
 - Pond A13 / A14 / A15

FLOOD RISK MANAGEMENT
ECOSYSTEM RESTORATION
AND RECREATION

SOUTH SAN FRANCISCO BAY
SHORELINE
CALIFORNIA

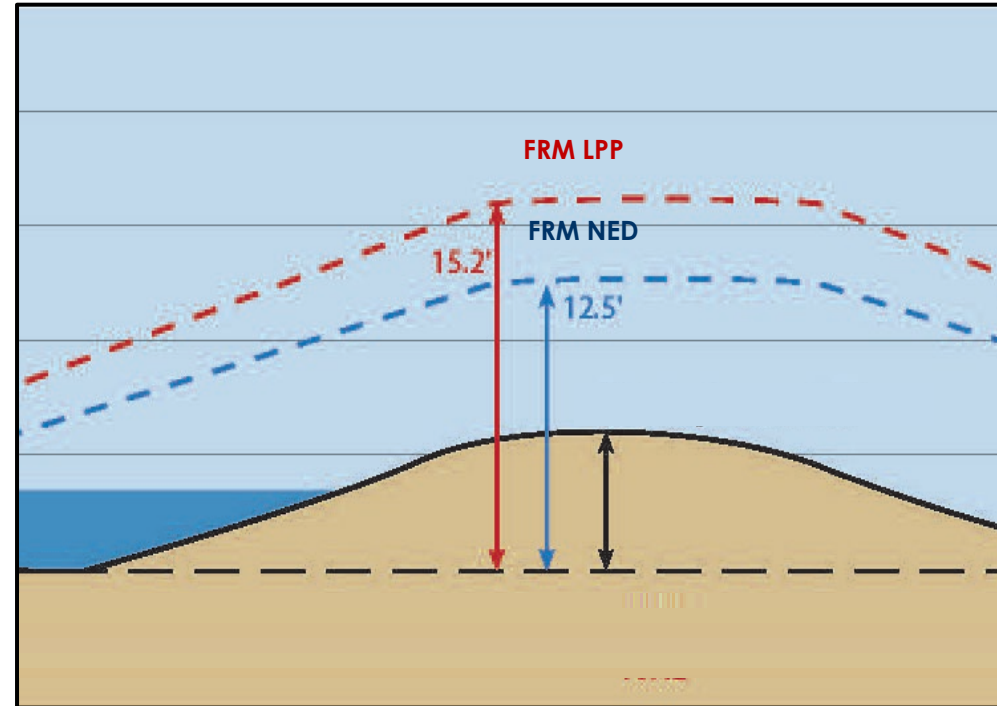
SAN FRANCISCO DISTRICT
SOUTH PACIFIC DIVISION

1 JANUARY 2023

Existing Unengineered Pond Dikes

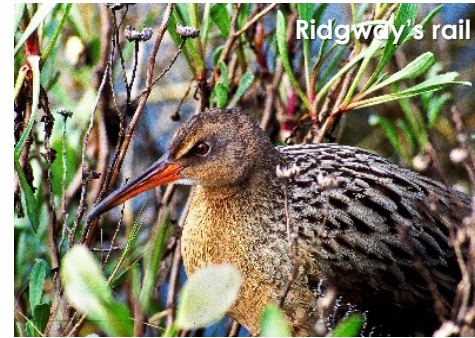
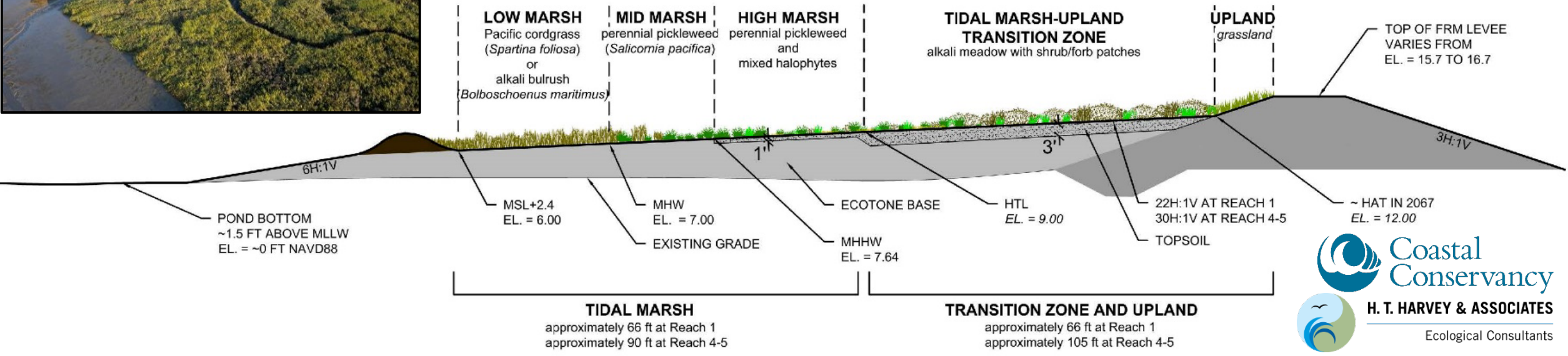


Construct Engineered Levees



ECOSYSTEM RESTORATION

Breach Ponds to Restore Tidal Flow & Encourage Tidal Marsh Development



**For more information,
please visit:**
www.valleywater.org/shoreline

Additional Questions?

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