

THE SOUTH SAN FRANCISCO BAY SHORELINE PROJECT

ALVISO PONDS AND SANTA CLARA COUNTY, CA
REACH 1 CONSISTENCY DETERMINATION

Prepared by The Shoreline Team
18 January 2018



PROJECT SPEAKERS

LTC David Kaulfers, P.E., PMP, Project Manager, USACE

Melanie Richardson, Chief Operating Officer: Watersheds, Santa Clara
Valley Water District

Anne Morkill, Refuge Complex Manager, U.S. Fish & Wildlife Service

Ken Davies, REM, CSEM, CESCO, Sustainability & Compliance Manager,
City of San Jose

Amy Hutzel, Deputy Executive Director, CA State Coastal Conservancy

Brenda Buxton, Project Manager, CA State Coastal Conservancy

LTC David Kaulfers, P.E., PMP, Project Manager, USACE

PROJECT TEAM



Chief's Visit - 2006



Chief's Report – Dec 2015



Appropriations Sub-Committee – 2014, Chief of USACE committing to Chief's Report

PROJECT TEAM



The project team logos are arranged in two rows. The top row includes Santa Clara Valley Water District (a blue water drop), Coastal Conservancy (a stylized wave), U.S. Fish & Wildlife Service (a circular seal with a bird and fish), City of San Jose (a sunburst over the city name), California Water Boards (a blue wave with the text 'San Francisco Bay - R2'), and bcdc (a blue square with white text). The bottom row contains the text 'PROJECT TEAM' in a large, bold, sans-serif font.



Since January 2017 – Meeting Every 4 to 6 weeks,
9 Times, 12Jan, 30Mar, 5May, 20Jun, 27Jul, 29Aug
30Oct, 31Oct, 27Nov....more to follow...17Apr18

PROJECT

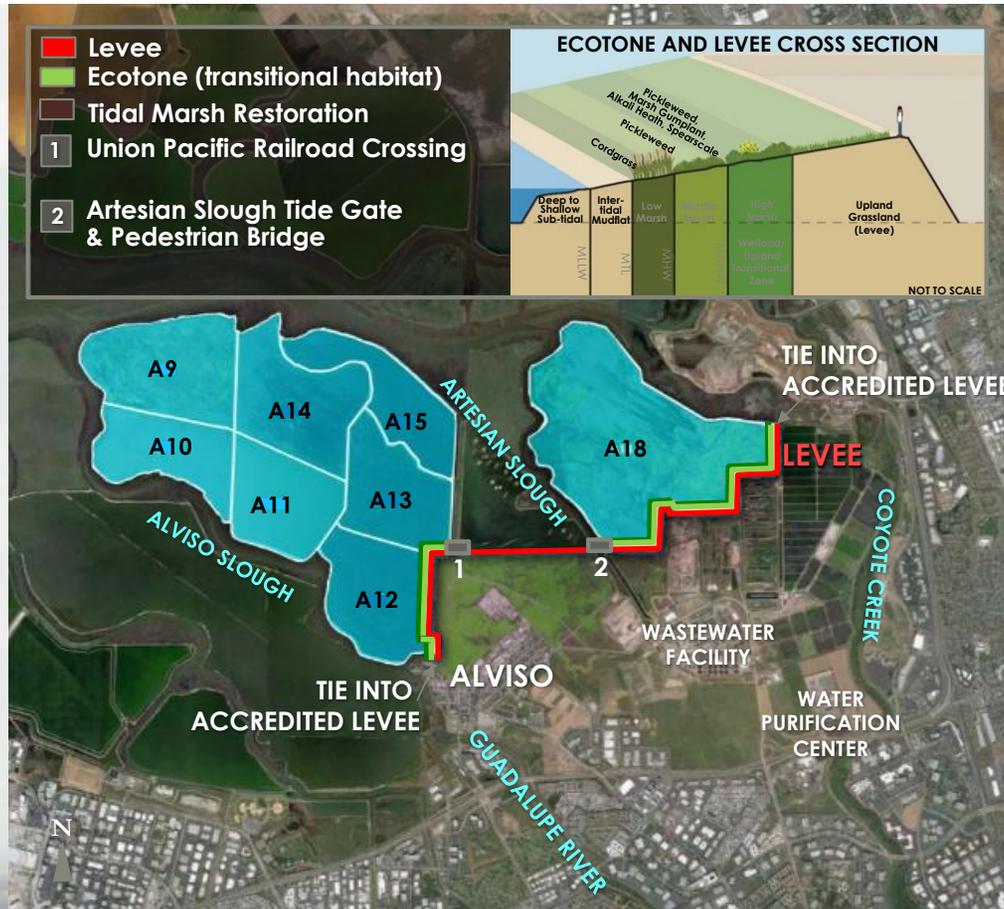
- **Flood Risk Management (FRM)**
 - ▶ 4-mile long levee
 - ▶ Manages risk for population of ~5,500, ~1,100 structures, & regional wastewater facility
- **Ecosystem Restoration**
 - ▶ 2,900 acres of tidal wetlands including ecotone
- **Recreation**
 - ▶ Provides key connections to San Francisco Bay Trail & viewpoints

Total Project First Cost
 \$174 million (Oct 2015 Price Level)

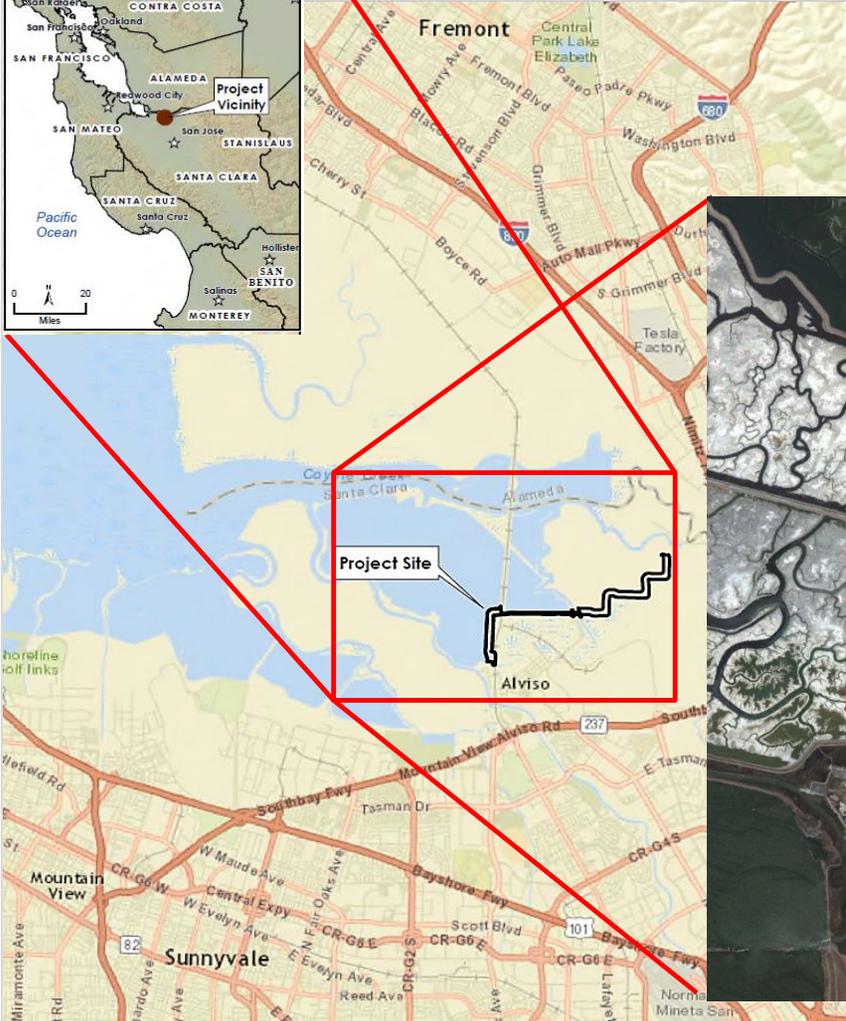
FRM BCR (@3.375%)
 Sea Level Change scenario Low/Intermediate/High:
 4.2 / 5.3 / 9.4 (2.9 - intermediate sea level change at a 7% discount rate)

Ecosystem Restoration
 48,308 habitat units; 2,900 acres
 Monitoring/Adaptive Management

Recreation BCR (@3.375%) 1.1



PROJECT LOCATION

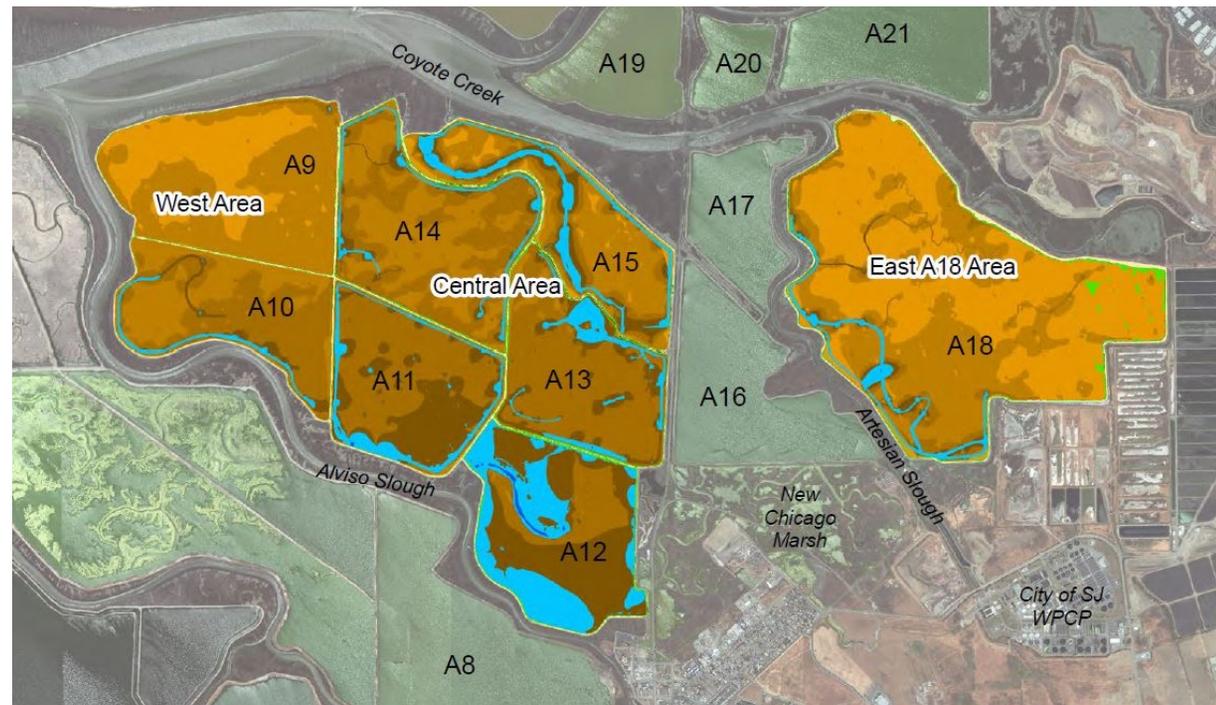


SOUTH SF BAY SHORELINE PROJECT



Project Need

- Flood Protection
- Ecosystem Restoration



Initial conditions. No Marsh98 run. No fill.



Habitat Zones (ft NAVD)

Deep Subtidal (< -21.2)	Intertidal Mudflat mid high (1.3 to 3.0)
Shallow Subtidal A (-21.2 to -8.0)	Intertidal Mudflat high (3.0 to 4.3)
Shallow Subtidal B (-8.0 to -1.5)	Cordgrass Dominated low (4.3 to 5.6)
Intertidal Mudflat low (-1.5 to 0)	Cordgrass Dominated high (5.6 to 7.0)
Intertidal Mudflat mid low (0 to 1.3)	Pickleweed Dominated (7.0 to 7.5)
	Upland (> 7.5)

figure 1

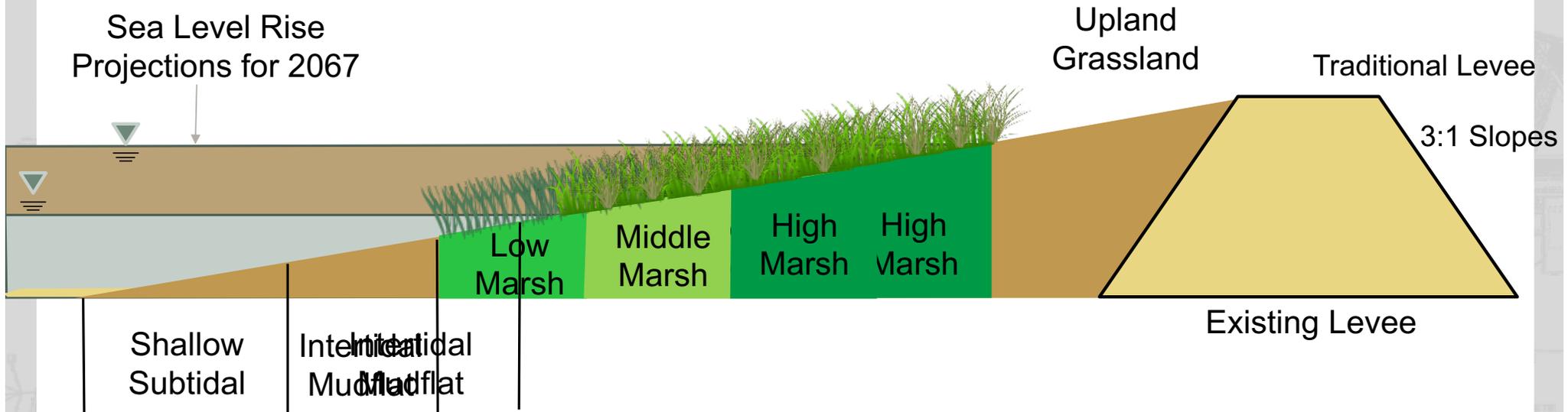
Shoreline Study Alternatives
Preliminary Alternative 1 Transitional -
Upland Fill Footprint

Proj. # 211259



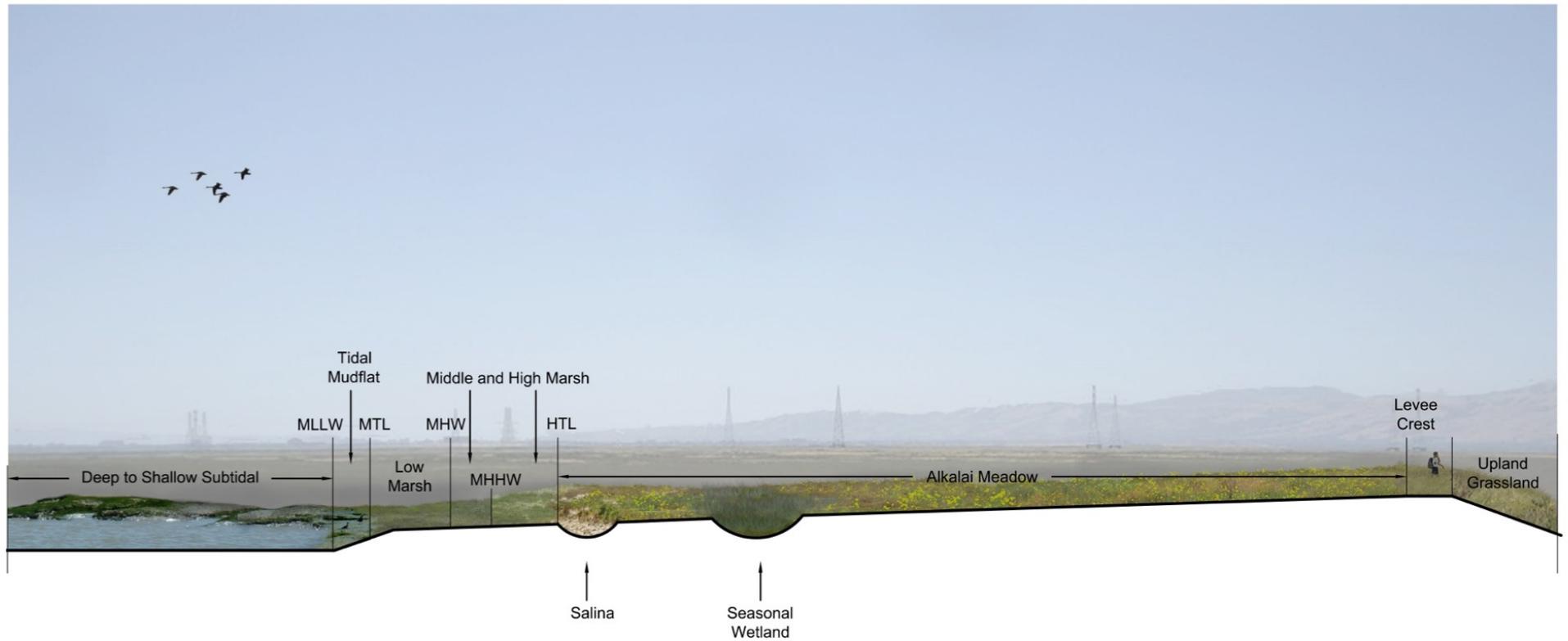
ECOTONE

Sea Level Rise
Projections for 2067

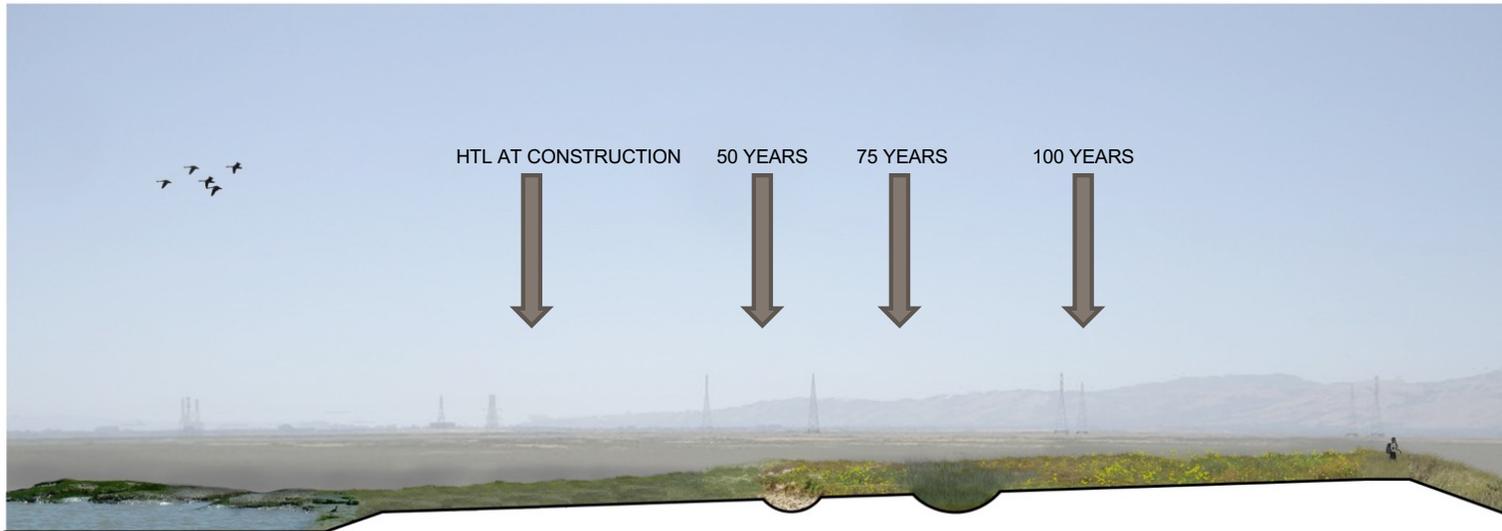


SOUTH BAY SHORELINE PROJECT TRANSITION ZONE—TYPICAL CROSS SECTION

ECOTONE



ECOTONE

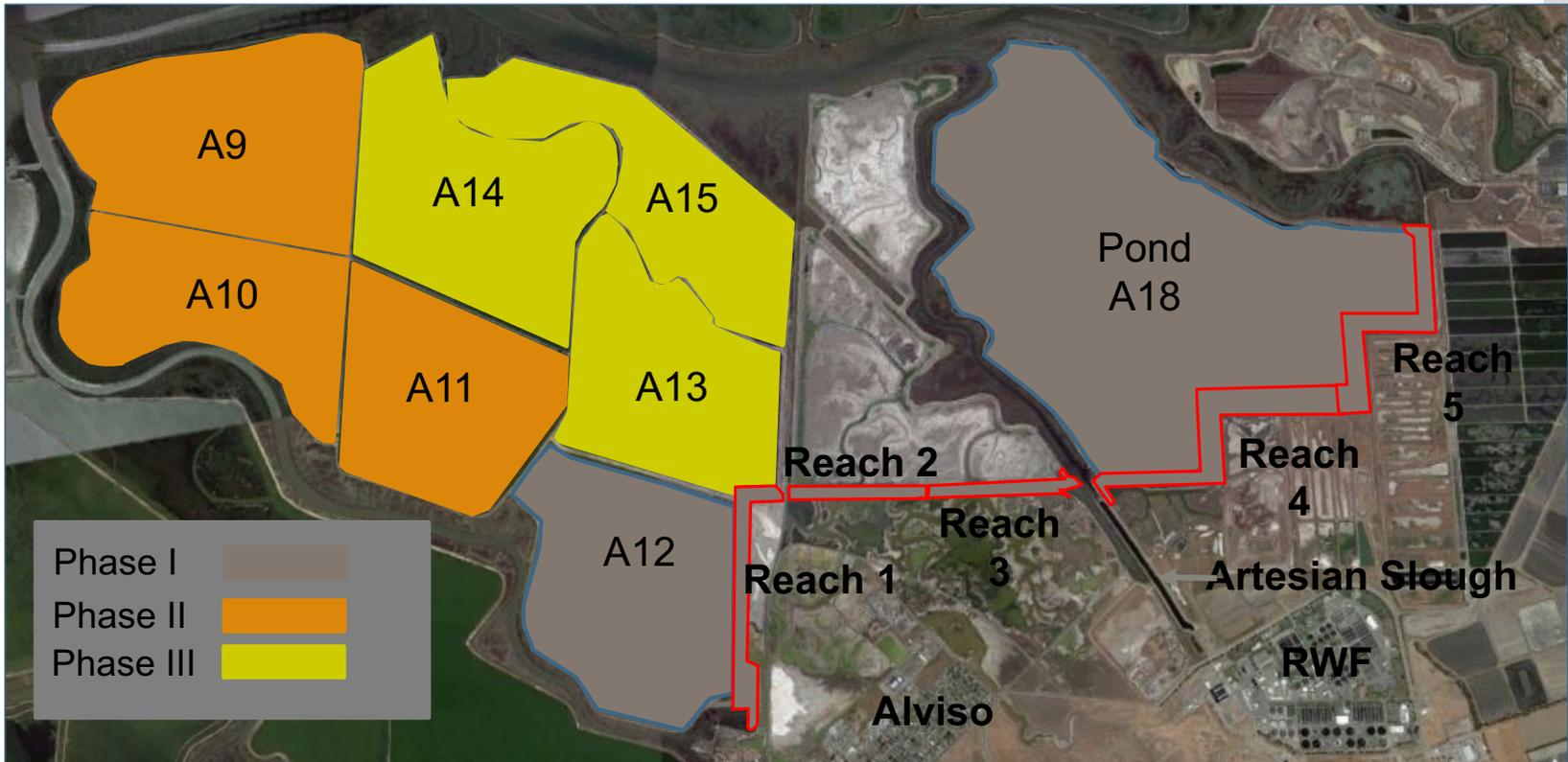


REACH 1 - SOUTH SF BAY SHORELINE PROJECT

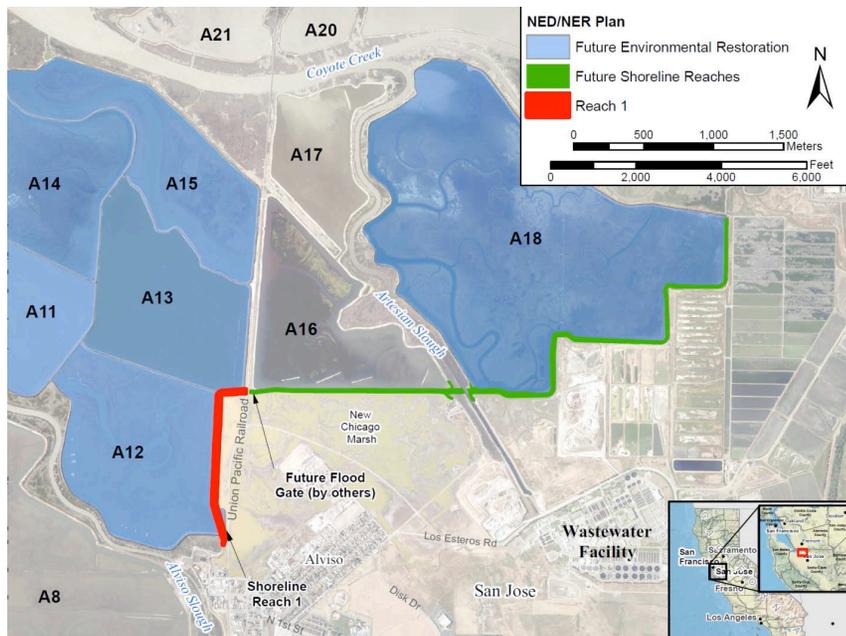


Phased Construction

- Phase I (2018-2022)
- Phase II (2027)
- Phase III (2032)



SOUTH SF BAY SHORELINE REACH 1 – STATION 0+00 TO 41+92



4,192 Feet long
 Crest Elevation – 15.2 feet
 Crest Width – 16 feet
 Allow for future environmental fill 30:1
 Access Road, allow stockpile of fill in ecotone areas of reach 1, 4/5





Melanie Richardson, Chief Operating Officer: Watersheds,
Santa Clara Valley Water District
Flood Protection for North San Jose w/adaptation for SLR



Photo – Cris Benton





Anne Morkill, San Francisco Bay National Wildlife Refuge Complex Manager, U.S. Fish & Wildlife Service

- Meets refuge purposes
- Facilitates tidal wetland restoration
- Enhances opportunities for wildlife-dependent recreation





Ken Davies, REM, CSEM, CESCO,
Sustainability & Compliance Manager,
City of San Jose

- Protection of Critical Public Infrastructure
- Wastewater Treatment for 1.4 Million
- 14 Million Gallons/Day Recycled Water
- City's Support includes Real Property





PROJECT TEAM



Amy Hutzel, Deputy Executive Officer,
State Coastal Conservancy

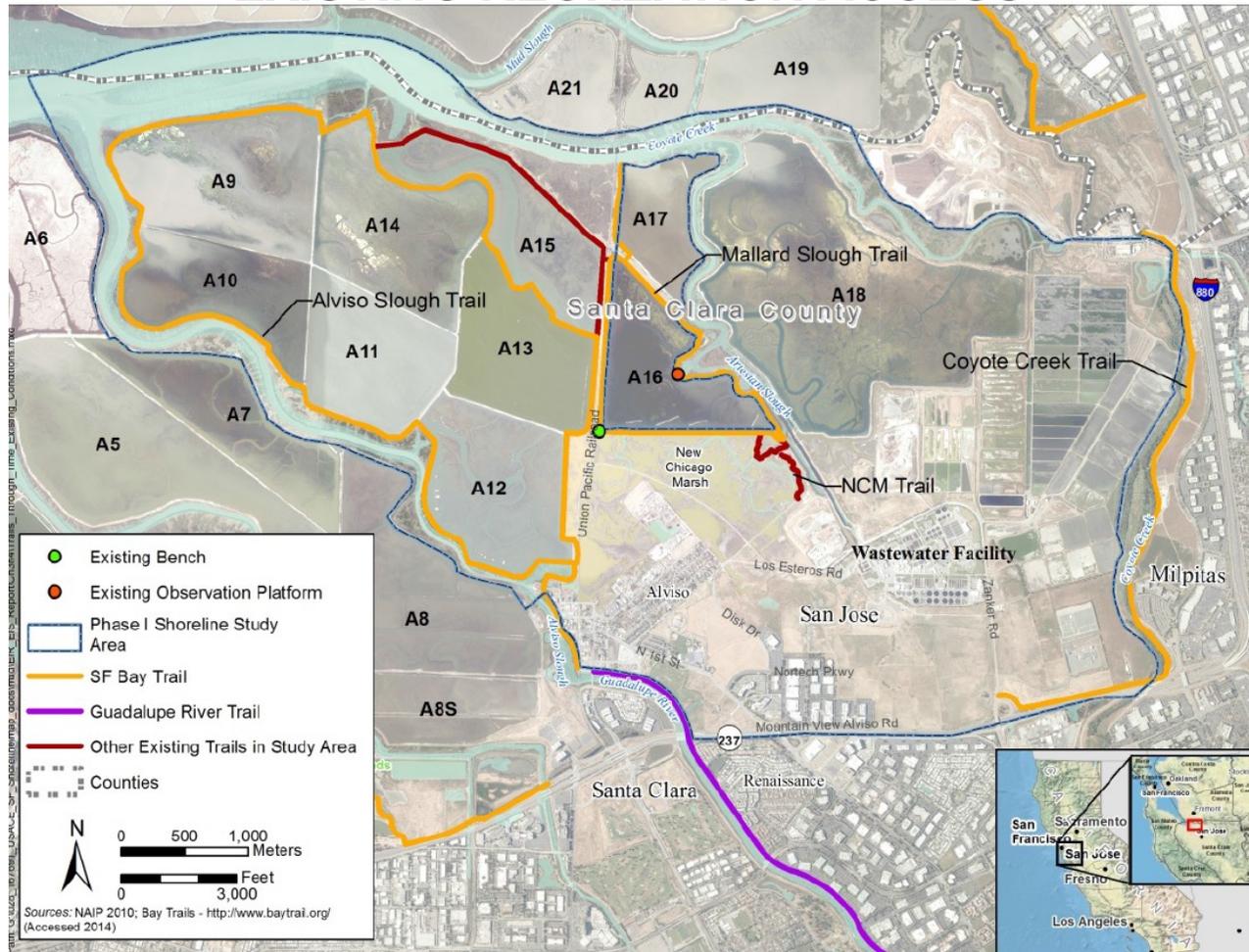
- Wetlands Restoration: 2,900 acres
 - South Bay Salt Ponds Project
 - Baylands Goals Report
 - Measure AA

Brenda Buxton, Project Manager

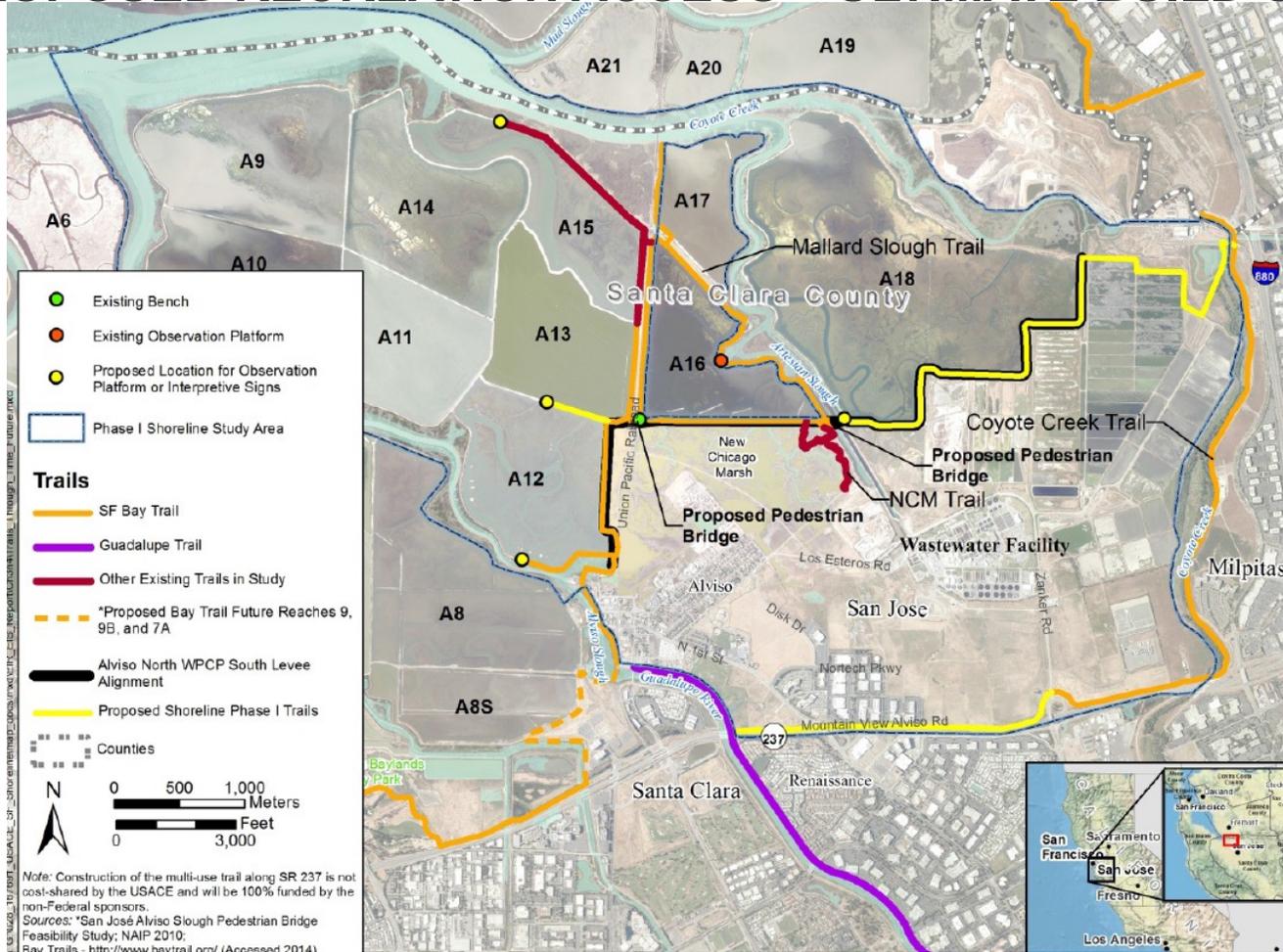
- Recreation - Trails



EXISTING RECREATION ACCESS



PROPOSED RECREATION ACCESS – ULTIMATE BUILD OUT





LTC David Kaulfers, P.E., PMP, USACE Project Manager

- Civil Works Funding is highly competitive
- Need to position projects that can compete
- Challenges in getting Environmental Documents will cause doubt in Appropriations staff





Way Forward

Dec 17 – Water Quality Cert Issued in 13 Dec 17

Jan 18 – 100% Design Complete- Reach 1

Jan 18 – Coastal Zone Management Act - Consistency
Determination to be issued (29 Jan 18)

Feb 18 – Fed Funding Announced (Work Plan)

Summer 18 - Award Construction – Reach 1*

*Pending New Start Construction Appropriation

Fall 18 – Develop requirements with BCDC for Reach 2/3





PROJECT TEAM

We Ask for:

Commission to Approve Consistency Determination as USACE and the USFWS support the CD as written.

