

Resilient by Design

Opportunities in San Jose



July 6, 2016

San Jose-Santa Clara Regional Wastewater Facility

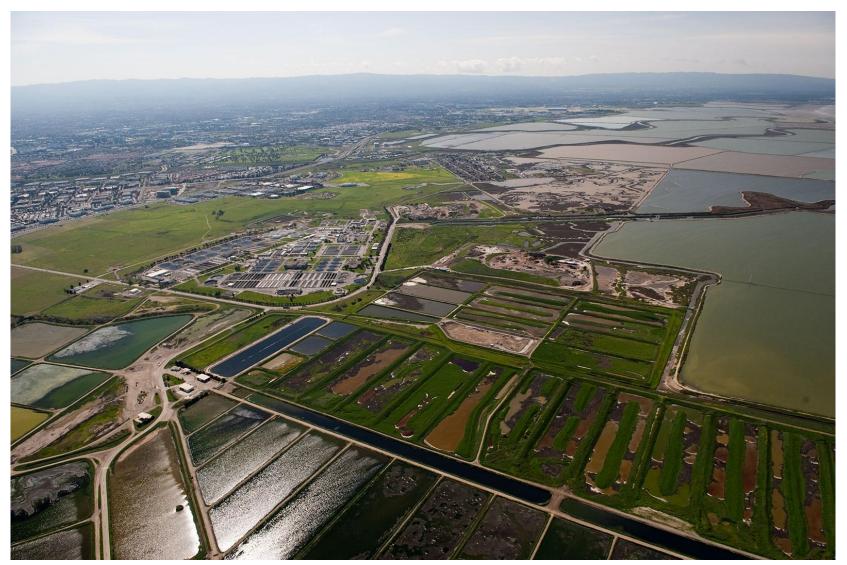


Policy Control of the Control of the

- Largest Advanced
 Wastewater Treatment
 Facility west of the Mississippi
- Continually providing essential services 24/7 since 1956
- Jointly owned by San Jose and Santa Clara
- Serves 1.4 million people and over 17,000 businesses across 8 cities and County areas
- Low elevation makes it prone to riverine flooding and future sea level rise



Regional Wastewater Facility



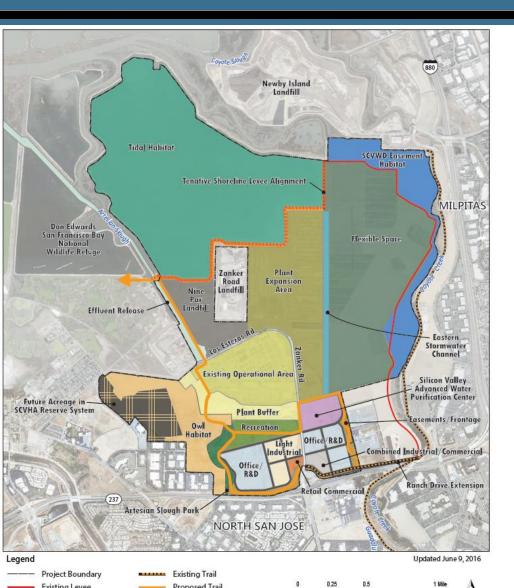
Regional Wastewater Facility



Regional Wastewater Facility



Plant Master Plan



Proposed Boardwalk Trail

Tentative Shoreline Levee

Plant Master Plan

Started in 2008 Adopted in 2013 Extensive Stakeholder Engagement

Goals:

Operational
Environmental
Economic
Social

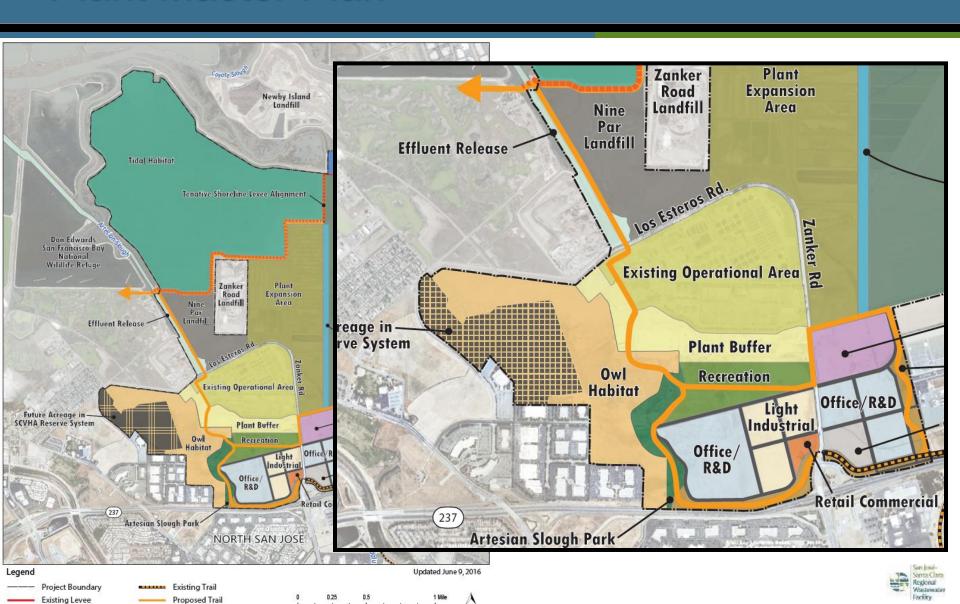
30 year Master Plan:

Facility Rebuild and Revitalization Habitat Protection Odor Mitigation Economic Development Recreational Spaces

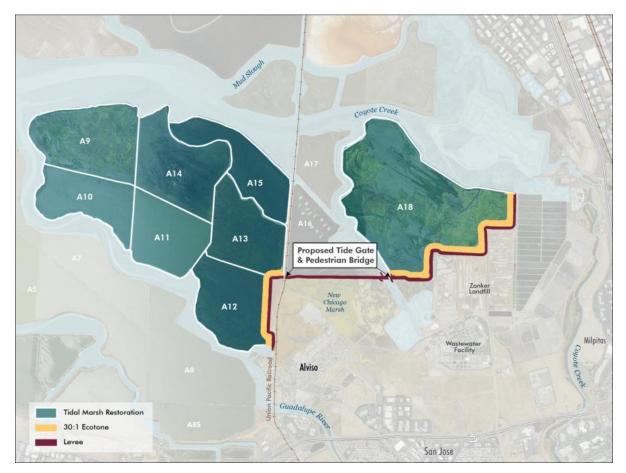
Plant Master Plan

Tentative Shoreline Levee

Proposed Boardwalk Trail



South San Francisco Bay Shoreline Levee



Graphic from September 2015 presentation to Civil Works Review Board

Project Description

Four miles of flood risk management levee Tidal march restoration Four miles of trails with viewing platforms and benches

Project Sponsors

US Army Corps of Engineers Santa Clara Valley Water District Coastal Conservancy

Land Owners

US Fish and Wildlife Service Cities of San Jose and Santa Clara

Estimated Project Costs

\$174 million 40% federal, 60% non-federal

Anticipated Schedule

Design start in 2017 Construction start in 2018



Challenges

- > Potential Riverine Flooding and Sea Level Rise
 - RWF Essential Services Facility
 - Disadvantaged Community of Alviso
 - Critical Assets and Global Companies located in North San Jose
- ➤ Limited Public Access; Sensitive Habitat



Opportunities – South SF Bay Shoreline Levee

- Protect community of Alviso and Regional Wastewater Facility from future flood risk
- Restore 2,900 acres of former salt ponds
- Provide key connections to SF Bay trail and viewpoints for restored habitat



Opportunities – Resilient by Design

- Synergy with South SF Bay Shoreline Levee project
- Creative design teams to complement Shoreline Levee work
- ➤ Enhance public access to South San Francisco Bay and activate shoreline
- Recreation and Economic Development opportunities

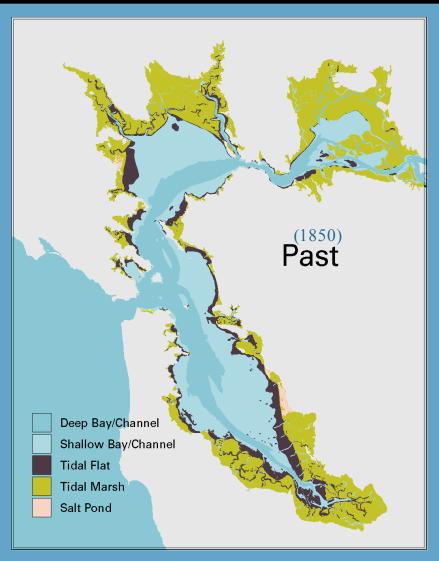


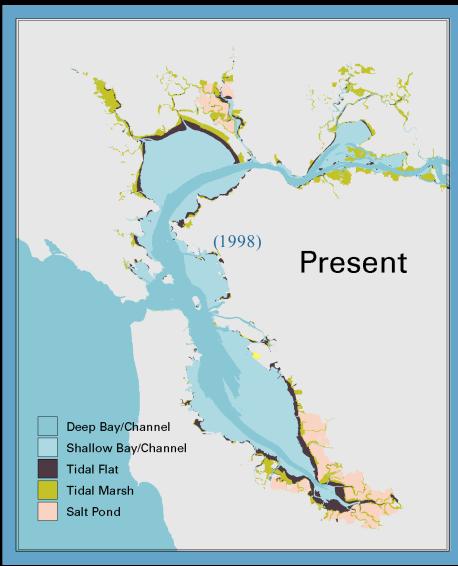
Questions and Discussion





150 years of urbanization has altered San Francisco Bay





San Francisco Bay Restoration Authority

Mission: To raise and allocate resources for the restoration, enhancement, protection, and enjoyment of wetlands and wildlife habitat in the San Francisco Bay and along its shoreline.

The San Francisco Bay Restoration Authority was created by Save The Bay and others through 2008 legislation.

Governing Board comprised of elected officials from each quadrant of the Bay Area; Advisory Committee represents many community interests.



Clean and Healthy Bay Ballot Measure: Measure AA



June 2016 ballot measure

\$12/parcel/year for 20 years, will generate ~\$500 million for restoration projects around the Bay

Passed by over 70% in 9 county Bay Area.

Clean and Healthy Bay Ballot Measure: Measure AA

- Restoring vital fish, bird and wildlife habitat.
- Improving water quality and reducing pollution and toxins.
- Protecting shoreline communities against flooding from severe storms and sea level rise.
- Increasing shoreline access for public enjoyment.



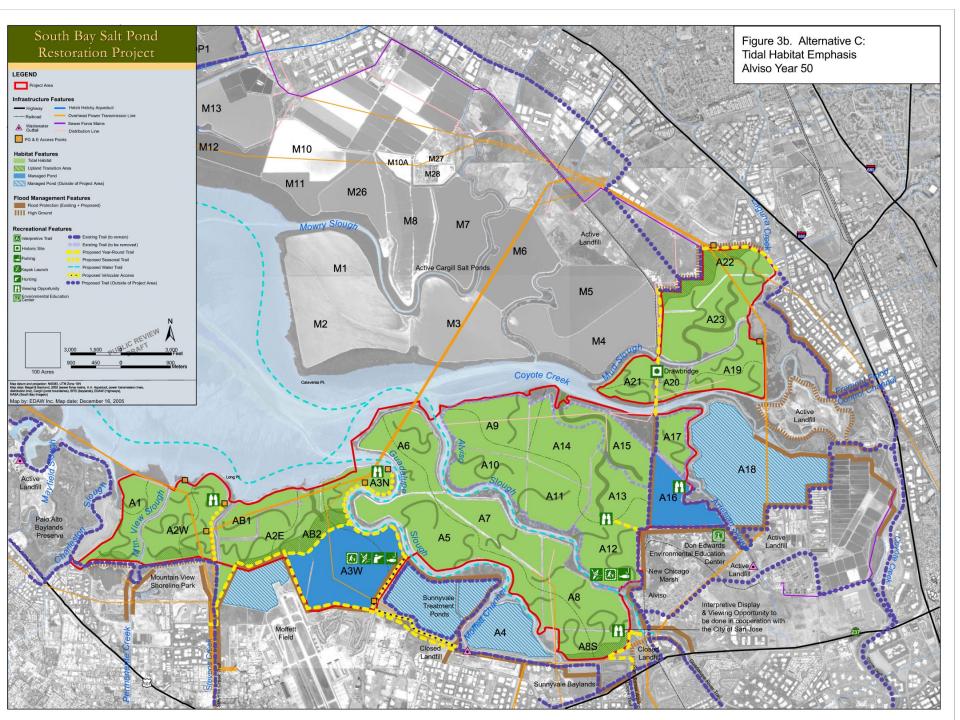
Clean and Healthy Bay Ballot Measure: Measure AA

Priority given to projects that:

- Have greatest positive, long-term impact on Bay.
- Provide for geographic distribution.
- Leverage other funding.
- Benefit disadvantaged communities.
- Benefit the region's economy, including:
 - Local employment/workforce development
 - Nature-based flood protection for shoreline communities and infrastructure.
- > Engage youth/young adults and build workforce skills.
- Incorporate monitoring, maintenance, and stewardship.









Phase I

6 Habitat Projects & 5 Public Access

1,600 acres of tidal marsh
1,440 acres of muted tidal habitat

710 acres of enhanced managed pond
3,750 total acres of habitat

7 miles of new trails historic salt works boardwalk interpretive signs, platforms, overlooks, kayak launch







