

South Bay Salt Pond Restoration Project

Restoring the Wild Heart of the South Bay



Stakeholder Forum Meeting, 28 October 2010, 1-4 p.m.

Today's Agenda

- Introductions and Welcome
- Track Our Progress: Highlights of 2010
 - Project Management & Funding
 - Phase 1 Construction
 - Science Program Update
- Looking Ahead: Preliminary Phase 2 concepts
- South San Francisco Bay Shoreline Study Update

Tracking Our Progress 2010

Project Management & Funding

Project Funding

- Federal funds
 - Appropriations
 - Grants
- Mitigation/penalty funds
- Local funds
- State funds (bonds)

Federal Funds - Appropriations

- USFWS appropriations for construction
 - \$4.9 million FY 08
 - \$4 million FY 09
 - \$2.5 million FY 10
- USGS appropriations for science
 - \$0.5 million FY 08
 - \$0.5 million FY 09
 - \$1.0 million FY 10



Federal Funds - Grants

- NOAA-ARRA
 - \$1.6 million Pond A6
 - \$1.0 million Pond A8
 - \$3.2 million Ponds E8A/9/8X
 - \$1.6 million Invasive Spartina Control
- USFWS-NCWC
 - \$1.0 million Ponds E8A/9/8X
- USEPA/SFEP
 - \$0.4 million Applied Studies

Mitigation/Penalty Funds

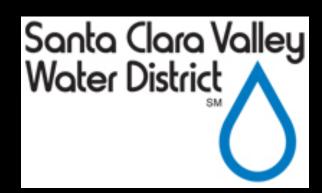
- \$1.1 million Caltrans Ravenswood Pier
- \$0.49 million Menlo Park Bay Account
- \$0.58 million NFWF (Leopard Shark)



Local Funds

- Santa Clara Valley Water District
 - Pond A8
 - South Bay Shoreline Study
- Alameda County Flood Control District
 - Ponds E8A/9/8X





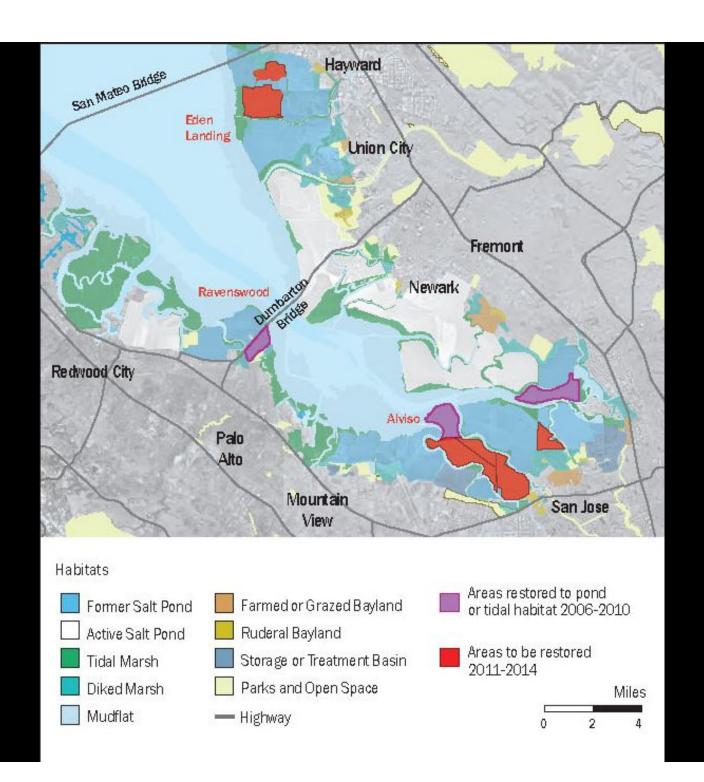
State Funds

- Coastal Conservancy
 - Design and public participation contracts
 - \$1.5 million Pond SF2 => Ponds E8A/9/8X
 - \$0.75 million Applied Studies now
 - \$0.75 million Applied Studies future
- Wildlife Conservation Board
 - \$10 million Restoration future

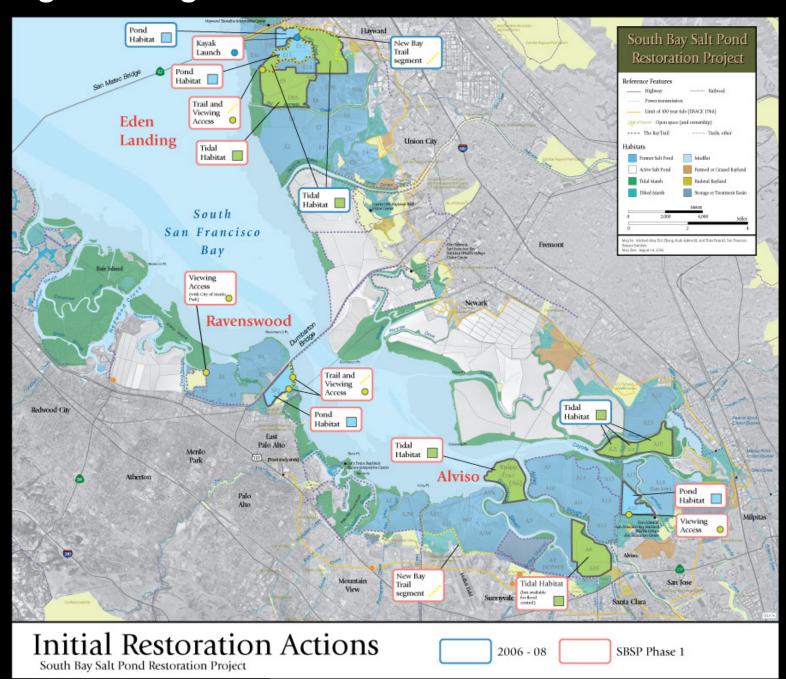




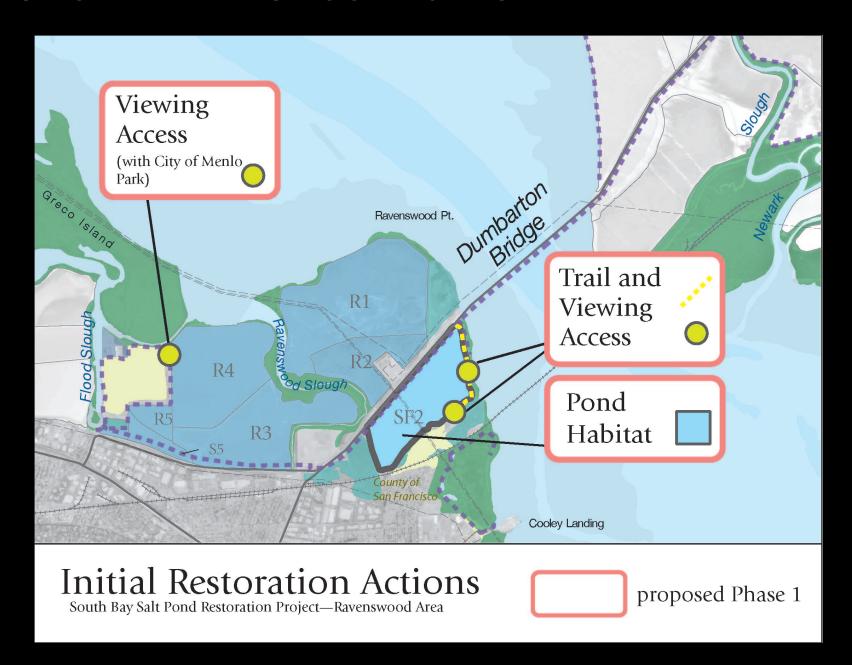
Tracking Our Progress: Project-wide Phase 1 Construction

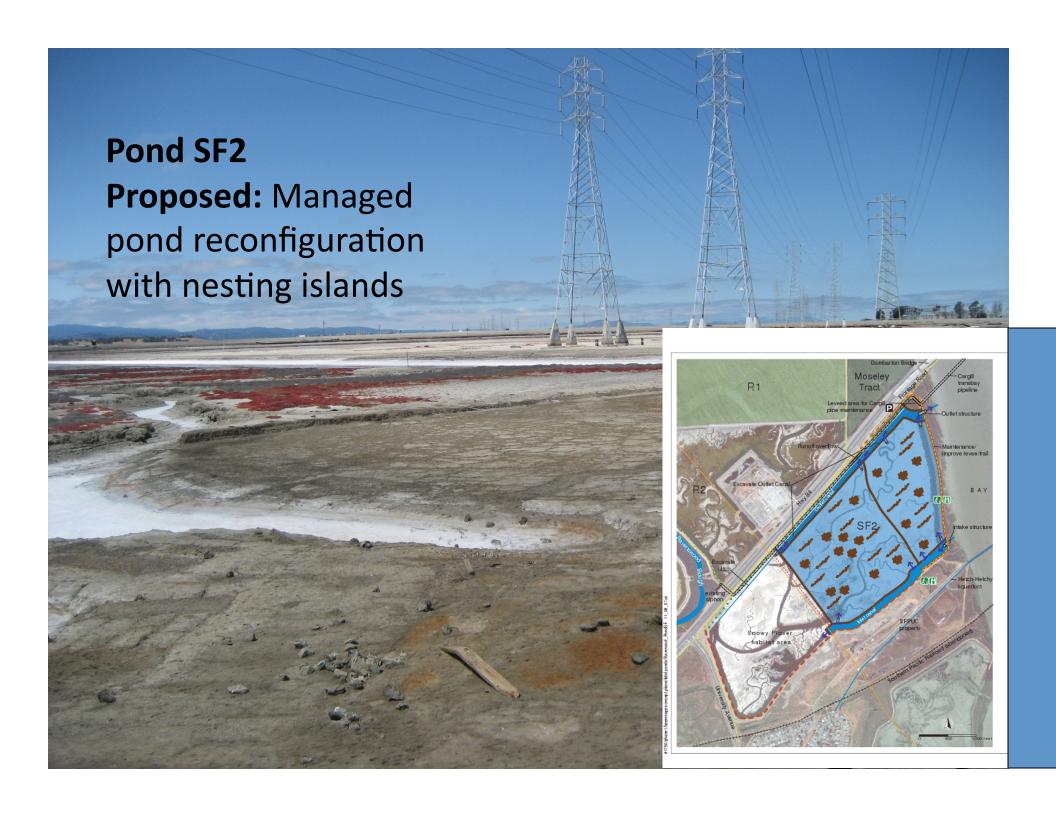


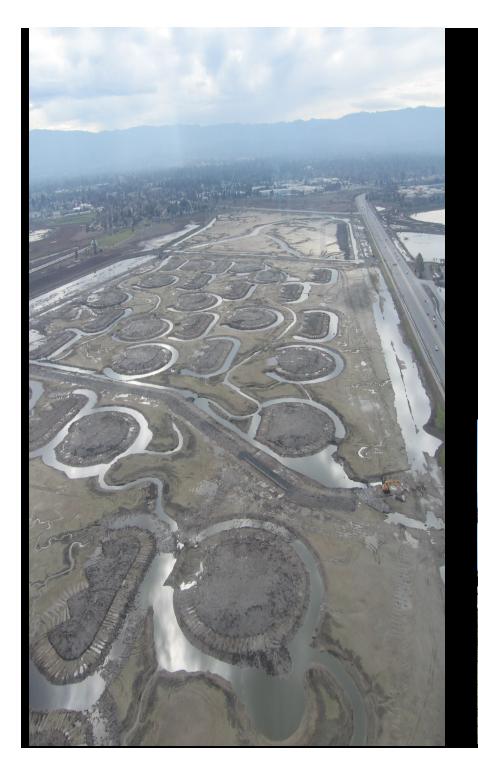
Tracking our Progress: Phase One Actions



PHASE ONE: RAVENSWOOD PONDS



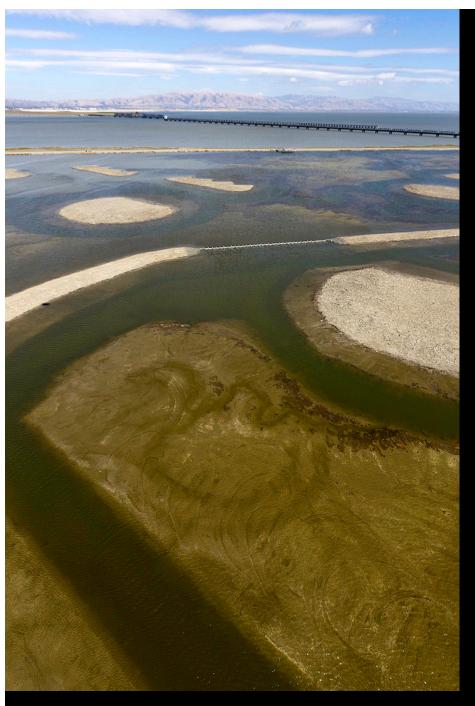




Construction







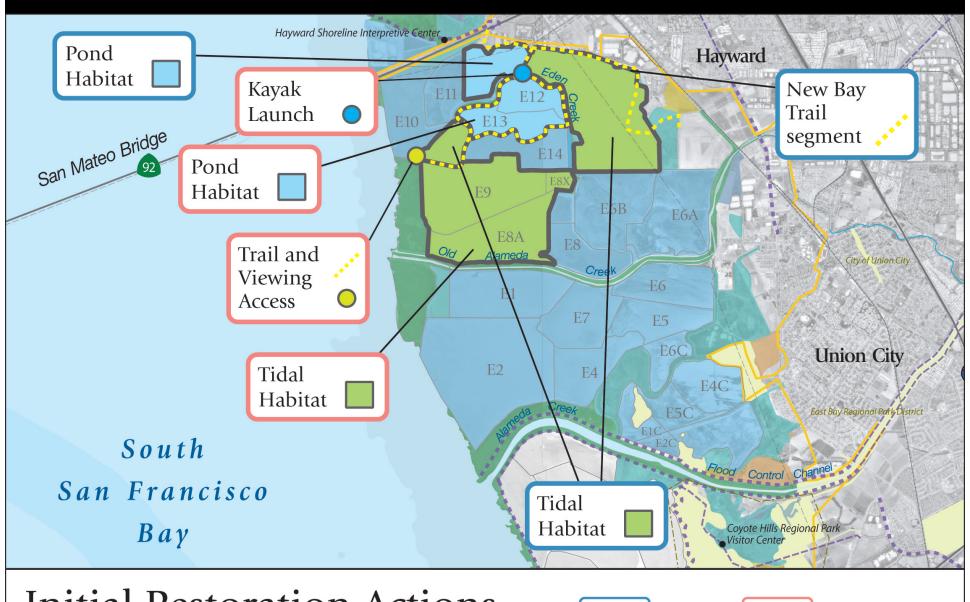
Status: Construction complete. Opened on September 7, 2010



Photo Credits: Chris Benton & Judy Irving



PHASE ONE: EDEN LANDING



Initial Restoration Actions

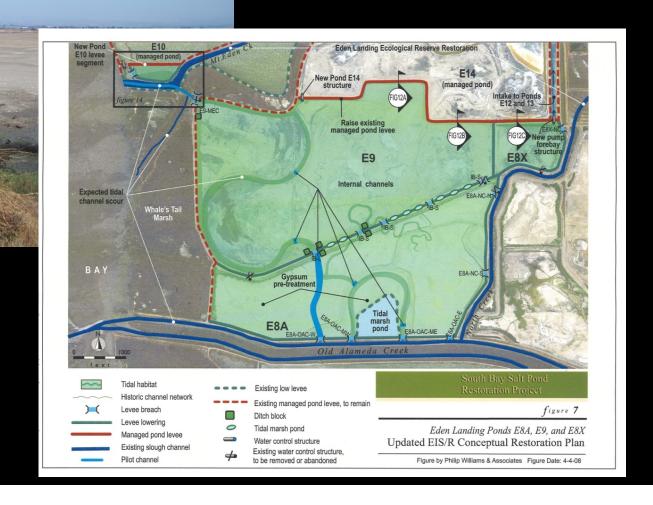
South Bay Salt Pond Restoration Project—Eden Landing Area

2006 - 08 SBSP Phase 1

PHASE ONE: EDEN LANDING

Ponds E8A/E9/E8X

Proposed: Tidal Marsh (630 acres)



Ponds E8A/E9/E8X

Status: Under construction





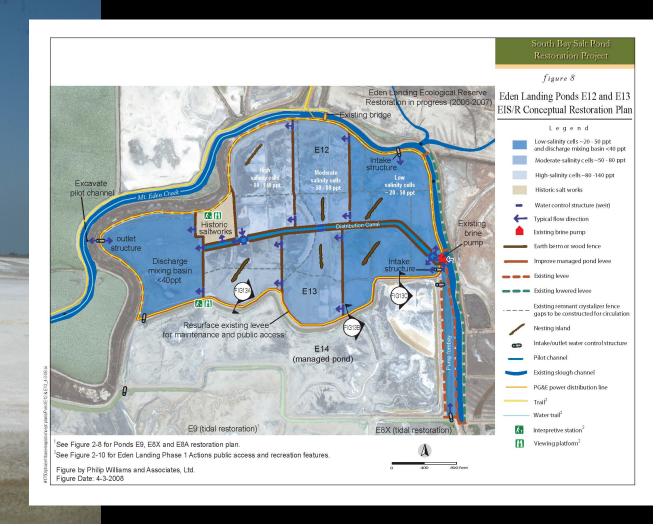
Completion expected Fall 2011

PHASE ONE: EDEN LANDING

Pond E12

Proposed:
Reconfigured
Managed Pond
(230 Acres)

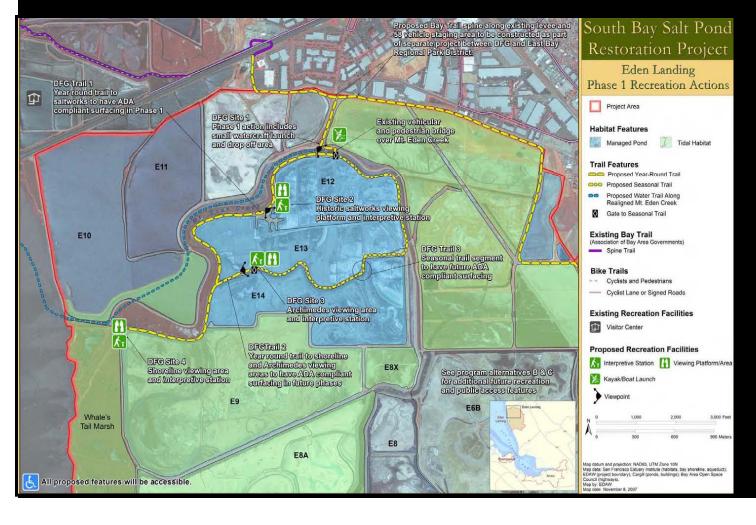
Status: Final design underway, 60% plans by March 2011



PHASE ONE: EDEN LANDING

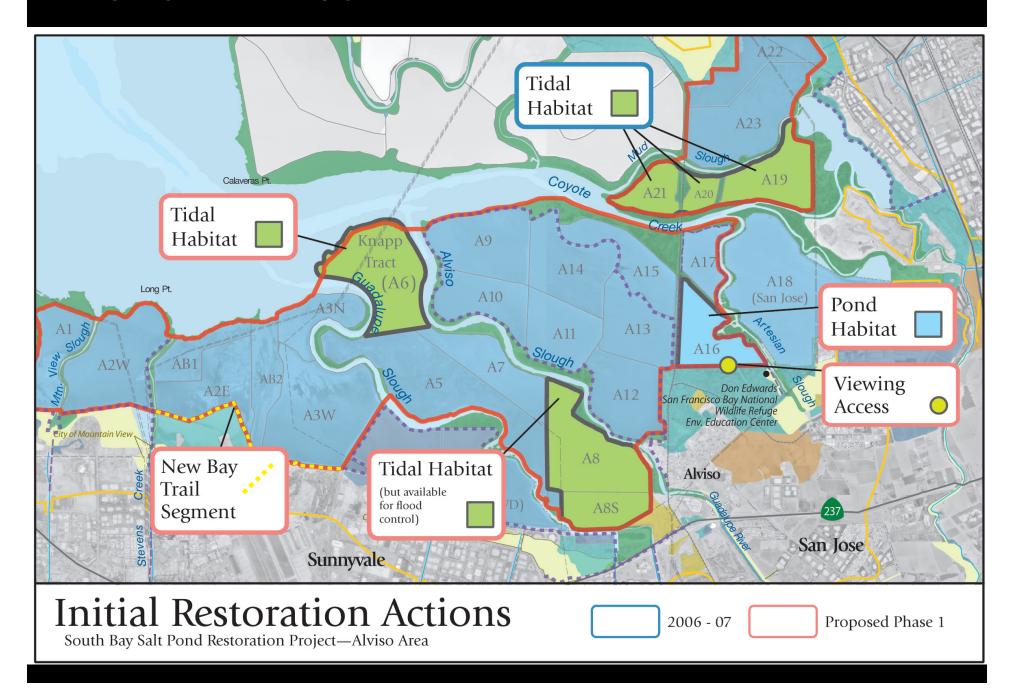


Proposed:
3.8 mile trail
Viewing platforms
Kayak launch



Status: Final designs complete

PHASE ONE: ALVISO





Ponds A19, 20, 21 (the Island Ponds)

Proposed: Tidal marsh

restoration

Status: Restored in 2006





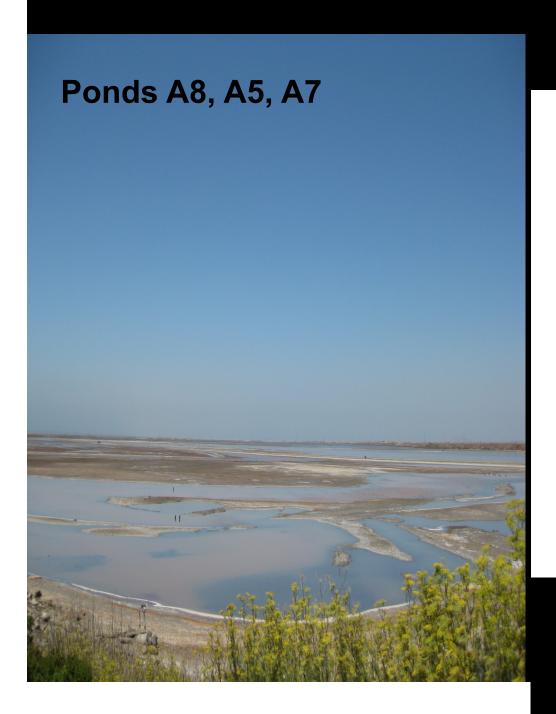


Habitat evolution after restoration

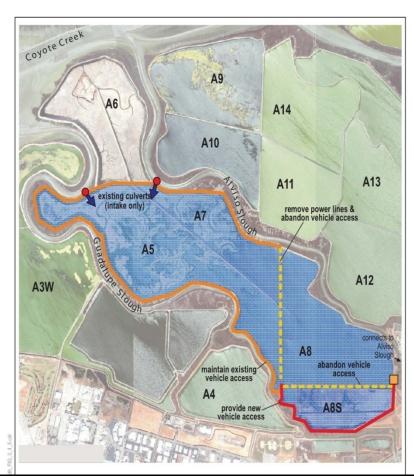


April 2008 September 2009 Salt Pond A21

PHASE ONE: ALVISO



Proposed: shallow tidal habitat with new marsh (1400 acres)





Before Construction



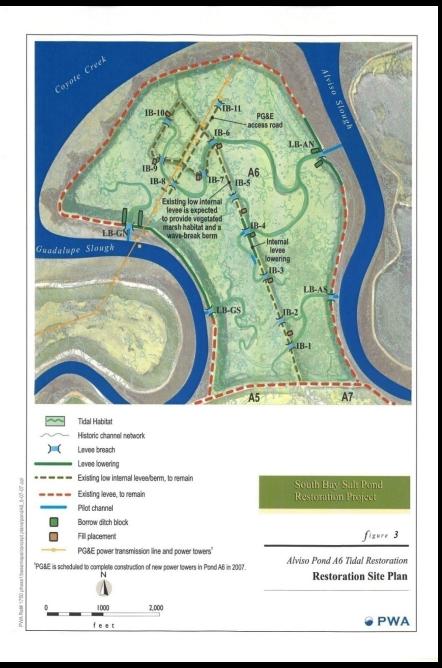
And After



Status: Gates to be opened in Spring 2011

PHASE ONE: ALVISO

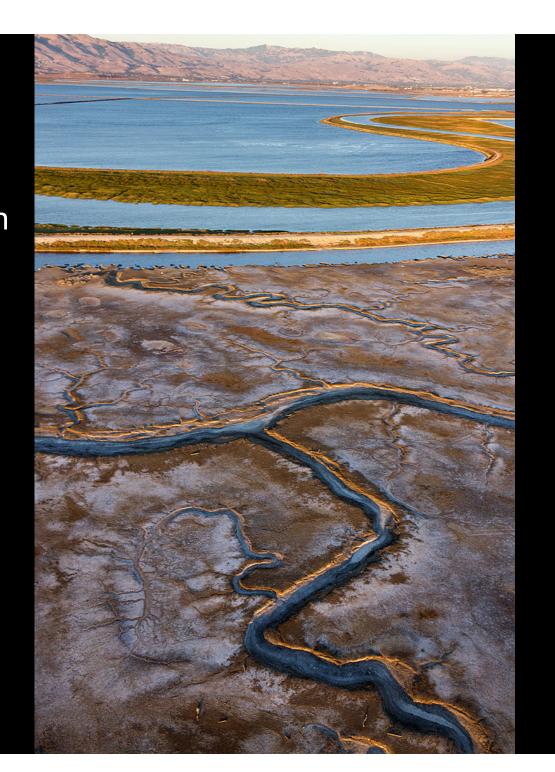




Pond A6

Status: Under construction

To be breached in November 2010



PHASE ONE: ALVISO



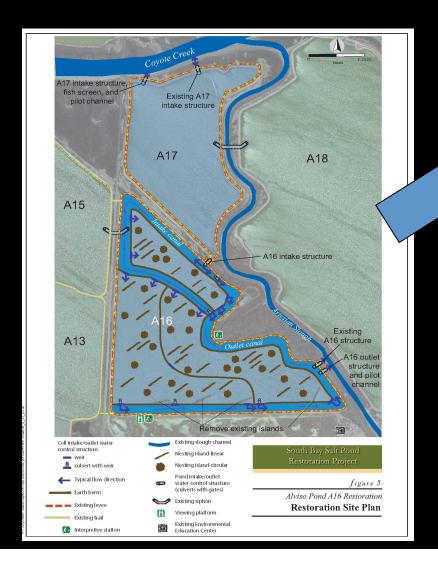
Now Open! 2.4 Mile Moffett Bay Trail Segment

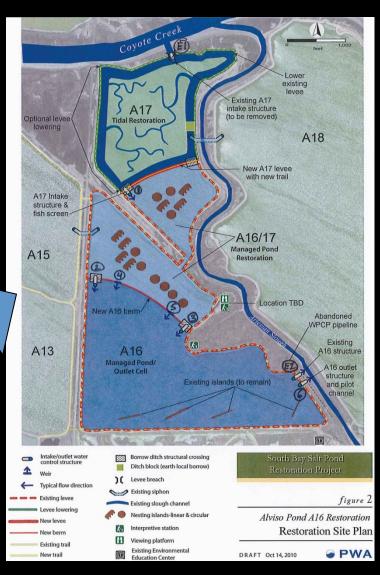
Status: Trail Opened on Monday September 20, 2010



PHASE ONE: ALVISO Pond A16

Proposed: Reconfigured Ponds with nesting islands (243 acres)





Status: Design modifications underway, 30% plans by February 2011

PHASE ONE: ALVISO

Pond A16 **Public Access:** Interpretive Signs



During the last century, most of the South bay sait marshes were dised and flooded to create evaporation ponds. For generations, humans used these man-made ponds to harvest salt from Bay water. Today, we are using them for widilfre, The South Bay Salt Pond Restoration Project is the largest tidal wetlands restoration project on the West Coast. Over the next 50 years, the Project will convert 15,100 acres of former salt ponds into a rich mosaic of wetlands habitats that will include managed ponds like A16.

In 2006, we took the first step in changing Pond A16 for wildlife. New water gates allow Bay water to flow in and out of the pond with the tides and the salinity has returned to Bay levels. With less salt in the water, wildlife use of the pond has doubled.

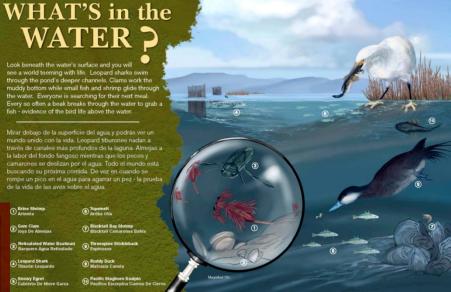
evaporación. Durante generaciones, los seres humanos utilizan estos estanques artificiales a la sal de la cosecha de agua de la

A16 para la vida silvestre. Compuertas de Nueva permitir que el agua fluya en la bahía y fuera del estanque, con las mareas y la salinidad que ha vuelto a niveles normales de la Bahía. Con meno



Salt ponds are man-made ponds used to harvest salt through Today many are being managed for wildlife habitat and are called managed ponds.

Estanques de sal son estanques artificiales utilizados para la cosecha de sal por evaporación solar de agua de la Bahía. Hoy en día muchos se están gestionando para el hábitat de la

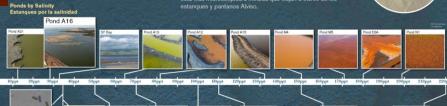


Extreme LIVING

fish, clams and many other species. Halophiles (salt loving organisms) are a special group of microorganisms that take over when salt levels increase. When present in great enough numbers, they change the salt ponds and natural salt pans of the South Bay into a rainbow of colors. Look for evidence of this microscopic life as you travel through the Alviso ponds and marshes.

son una fuente importante de alimento para aves, peces, almejas y muchas otras especies. Halófilos (amantes de la sal organismos) son un grupo especial de microorganismos que hacerse cargo de aumentar los niveles de cuando la sal. Cuando están presentes en número lo bastante grande. cambian las salinas y las cacerolas de sal natural de la Bahía Sur en un arco iris de colores. Puedes buscar pruebas de esta vida microscópica a medida que viajan a través de los estanques y pantanos Alviso.

How many are there? ¿Cuántos hay?









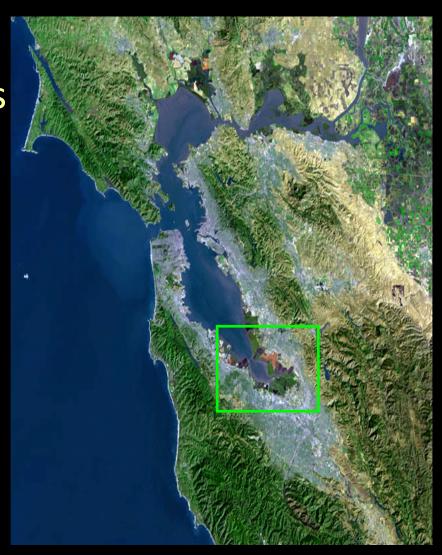


Science Program Update

Laura Valoppi, Lead Scientist

Outline

- Phase 1 Key Uncertainties
- Phase 1 study updates
 - Project wide
 - Alviso
 - Ravenswood
 - Eden Landing



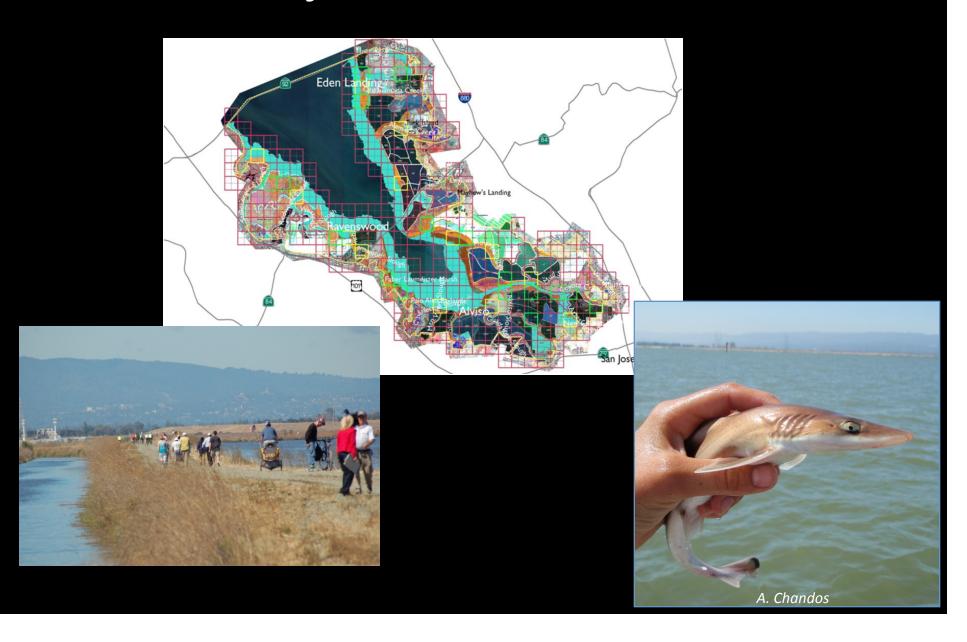
Key uncertainties

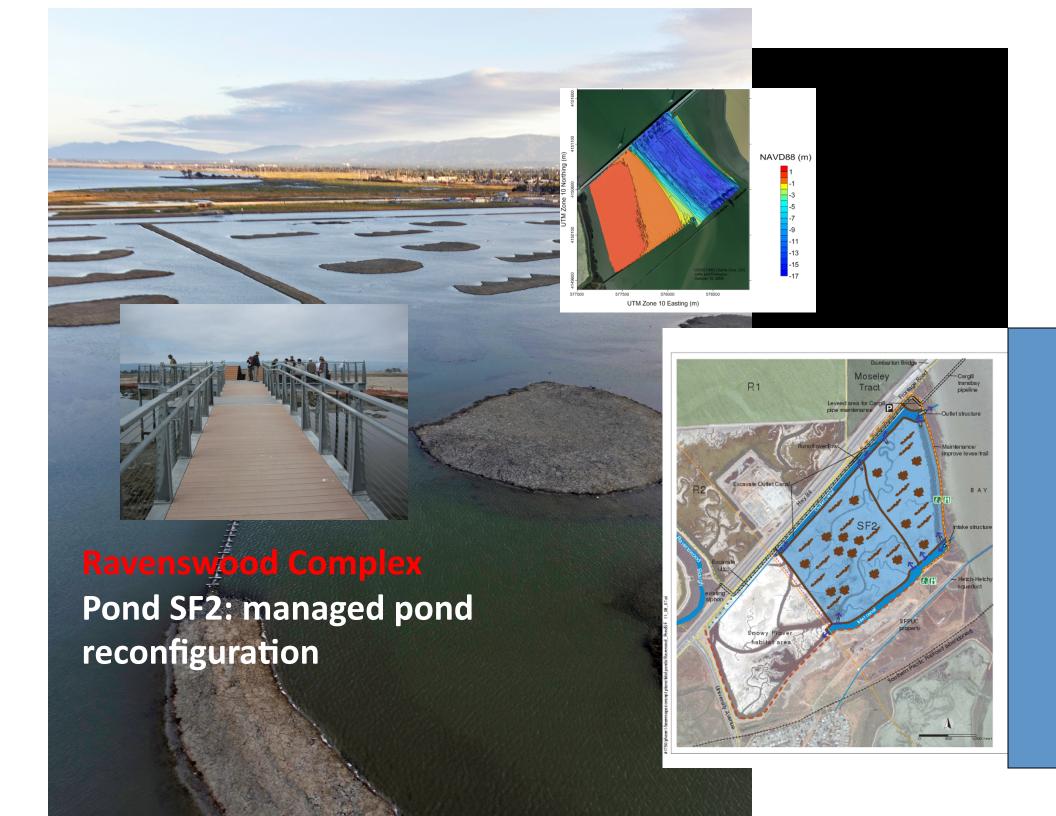
- Wildlife use of changing habitats
- Habitat evolution and sediment dynamics
- Mercury methylation
- Water quality
- Invasive species
- Public access
- Infrastructure support
- Sea level rise and climate change





Project –wide Studies







Alviso Complex

Ponds A19, 20, 21: tidal marsh restoration

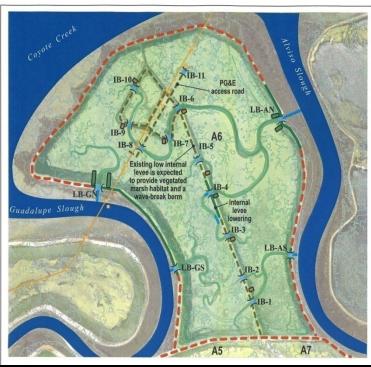






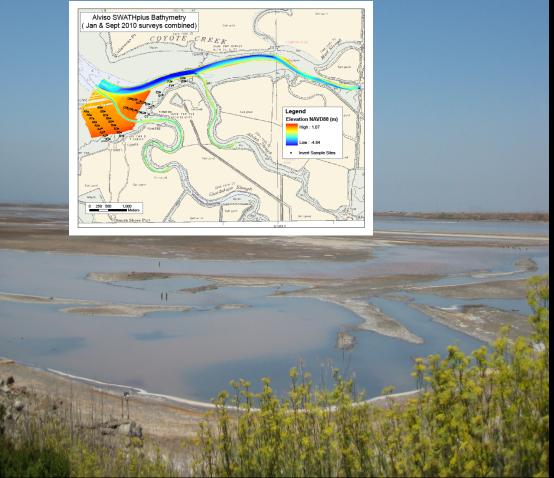
Alviso Complex

Pond A6: tidal marsh restoration



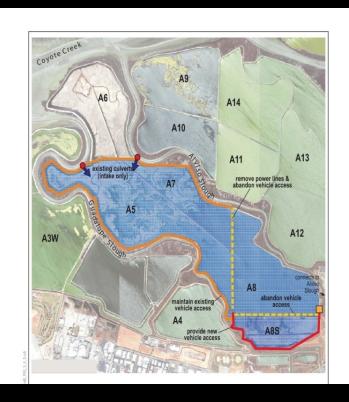






Alviso Complex

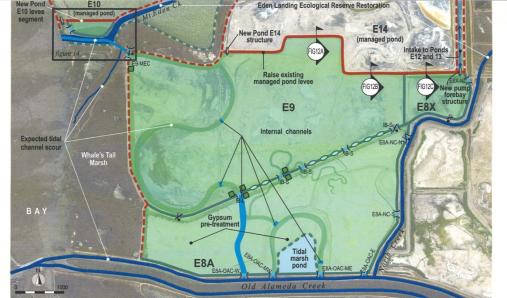
Ponds A8, A5, A7: tidal marsh restoration, with management





Eden Landing Complex

Pond E8A: tidal marsh restoration





Phase 2: Overview

Guiding Principles

"Do no harm": no actions that will increase flood risk

Progress toward 50-50 vision (from EIR)

Primary Evaluation Criteria

- Likelihood of progress toward Project objectives
- Opportunities for Adaptive Management studies
- Value in building Project support
- Readiness to proceed
- Not dependent on precedent actions (e.g., construction of a flood levee)

Project Wide Actions

Beneficial re-use of dredge materials

Subtidal Habitat Goals pilot project

Public access and recreation study

For each Pond Complex:

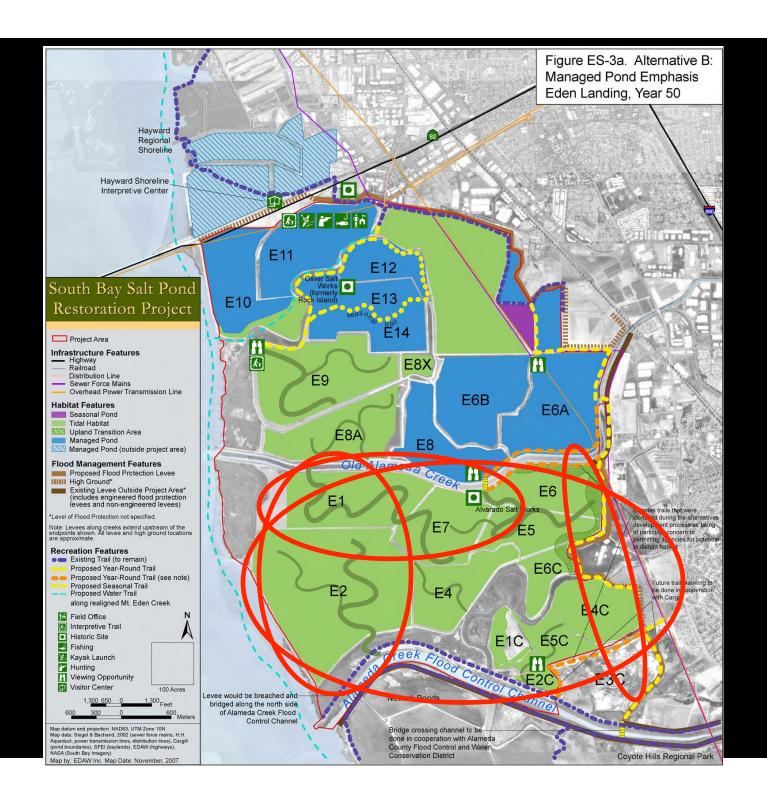
 What is your central interest/concern for this complex for Phase 2?

 Does the proposed action/concept meet the test of the Guiding Principles?

What has the PM Team missed?



Questions/Comments on Ravenswood



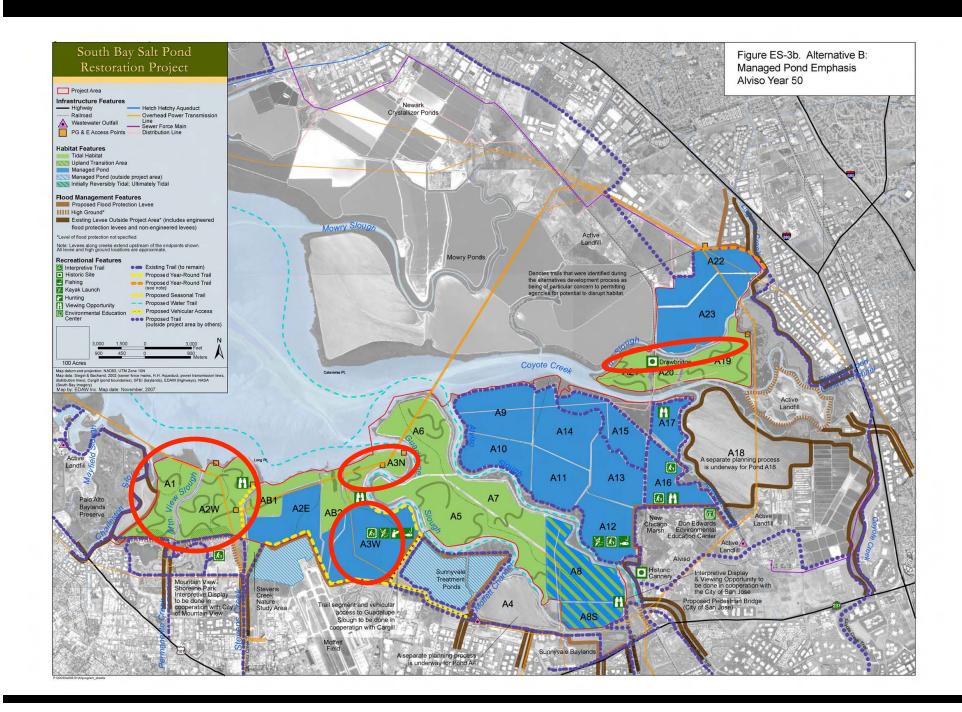
Questions/Comments on Eden Landing

NOTE: slides shown at public meeting on flooding areas were preliminary – not for publication. They will be updated shortly to show final information.

South Bay Shoreline Study Update Brenda Buxton, Coastal Conservancy



Shoreline Study Issues



Questions/Comments on Alviso

Phase 2 Applied Study Ideas

- Invasive Spartina issues
- Subtidal habitat
- Public access/use
- Upland transition zones/ ecotone
- Use of dredge materials
- Mercury and water quality monitoring



Questions/Comments on Applied Studies

Next Steps

- -E-mail Phase 2 comments to:
- <u>Jbourgeois@coastalconservancy.ca.gov</u>
- -Newsletter updates and input
- -Revised Phase 2 concepts and permitting

activities: Fall 2011

Upcoming Events/Meetings

- Regulatory Agency Meeting November 4, 2010
- Pond A6 breach, late November
- Southern Eden Landing Comprehensive Planning
- Early 2011:
 - Local Government Forum
 - Eden Landing Work Group
 - Ravenswood Work Group



John Bourgeois

California Coastal Conservancy jbourgeois@scc.ca.gov or 408/314-8859

Brenda Buxton

California Coastal Conservancy bbuxton@scc.ca.gov or 510/286-0753

Laura Valoppi

USGS, Lead Scientist

laura valoppi@usgs.gov or 916/278-3124

Eric Mruz

Don Edwards San Francisco Bay National Wildlife Refuge

Eric Mruz@fws.gov or 510/792-0222

John Krause

California Department of Fish and Game jkrause@dfg.ca.gov or 415/250-0243

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