# South Bay Salt Pond Restoration Project Restoring the Wild Heart of the South Bay



SALT POND A21 SOUTH BAY SALT POND RESTORATION PROJECT

May 2010

October 2010

Kite aerial photographs of a small channel in the northeast comer following the 2006 breach to tidal flow. Field of view is - 120 feet. . C. Benton

Science Symposium May 11, 2022 Dave Halsing, Executive Project Manager

#### Introductions









# USFWS - Don Edwards SF Bay National Wildlife Refuge

Matt Brown, Project Leader Chris Barr, Deputy Project Leader Rachel Tertes, Wildlife Biologist



#### CDFW – Eden Landing Ecological Reserve



John Krause, Sr. Environmental Scientist Supervisor



Becca Carniello, Environmental Scientist/ Reserve Manager

#### **CA State Coastal Conservancy**

Laura Cholodenko, Project Manager Shalini Kannan, Deputy Project Manager Evyan Borgnis Sloane, Deputy Manager SF Bay Program







#### **Lone Wolves**







Donna Ball, Lead Scientist Ariel Ambruster, Outreach and Engagement Coordinator Dave Halsing, Executive Project Manager

### **Valley Water**



Judy Nam, Sr. Water Resource Specialist

> Nick Mascarello, Environmental Planner





Sunshine Julian, Capital Engineering Manager

> John Bourgeois, Deputy Officer - Watersheds



# **U.S. Army Corps of Engineers**



Neil Hedgecock, Program Manager, South Bay Shoreline Project

#### Elizabeth Murray, Research Biologist



### **Ducks Unlimited**

#### Steve Carroll, Regional Engineer





Renee Spenst, Regional Biologist

Taylor Lancelot, Regional Engineer





Nick Torrez, Regulatory Specialist



Colin Dudley, Regional Engineer

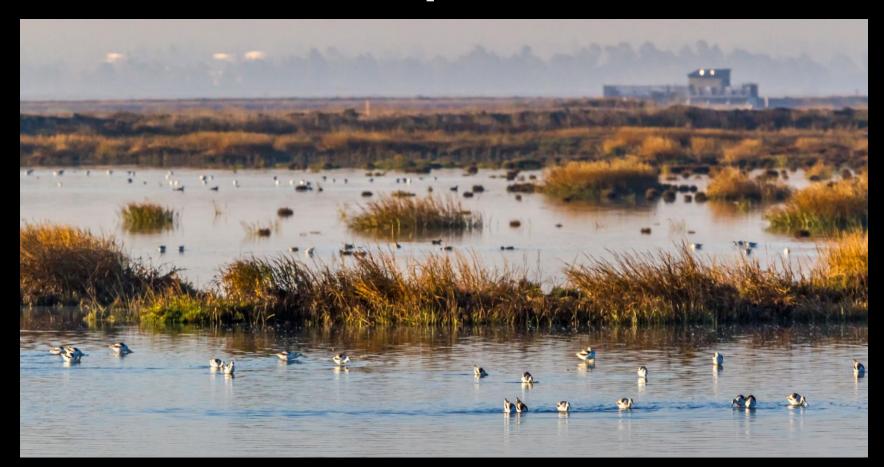
### Partners, Collaborators, Etc.

- Cargill
- Cris Benton
- San Francisco Bay Bird Observatory
- Save The Bay
- San Francisco Estuary Institute
- U.S. Geological Survey

Consultants, contractors, environmental groups, material providers, neighboring cities & counties, flood control districts, regulators, funders...

#### **History and Status**

SBSP Restoration Project Overview
Phase 2 Status Updates



## **SBSP Restoration Project**

- Began in 2003
- Acquisition of 15,100 acres from Cargill
- Time to build program 2003-2007
- Restoration began in 2007
- Phase 1 complete in 2014
- Phase 2 underway now





#### **Habitat Restoration**









#### Flood Risk Management





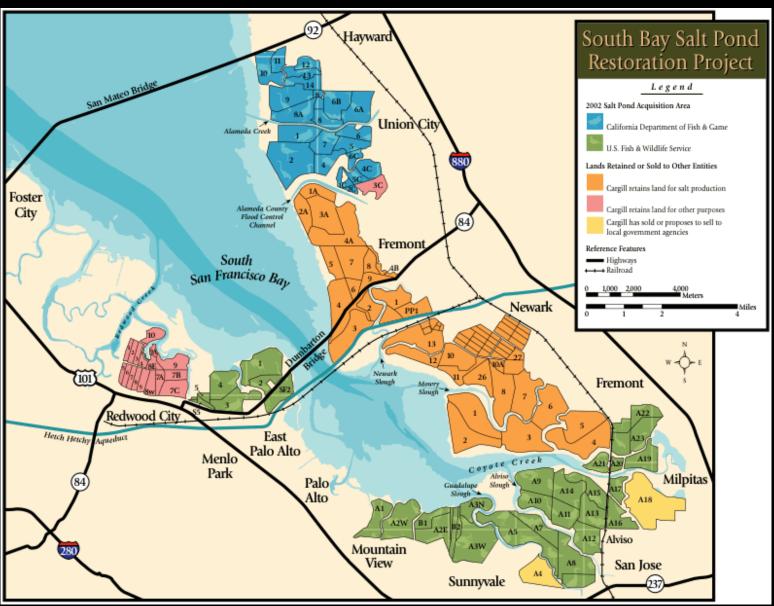






#### Public Access and Recreation

#### **SBSP Restoration Project**



#### Phase 1 Outcomes



#### 1,600 acres tidal restoration 1,440 acres muted tidal

#### **Phase 1 Outcomes**

# 710 acres reconfigured managed ponds





#### **Phase 1 Outcomes**





7 miles of new trails

#### **Viewing platforms**

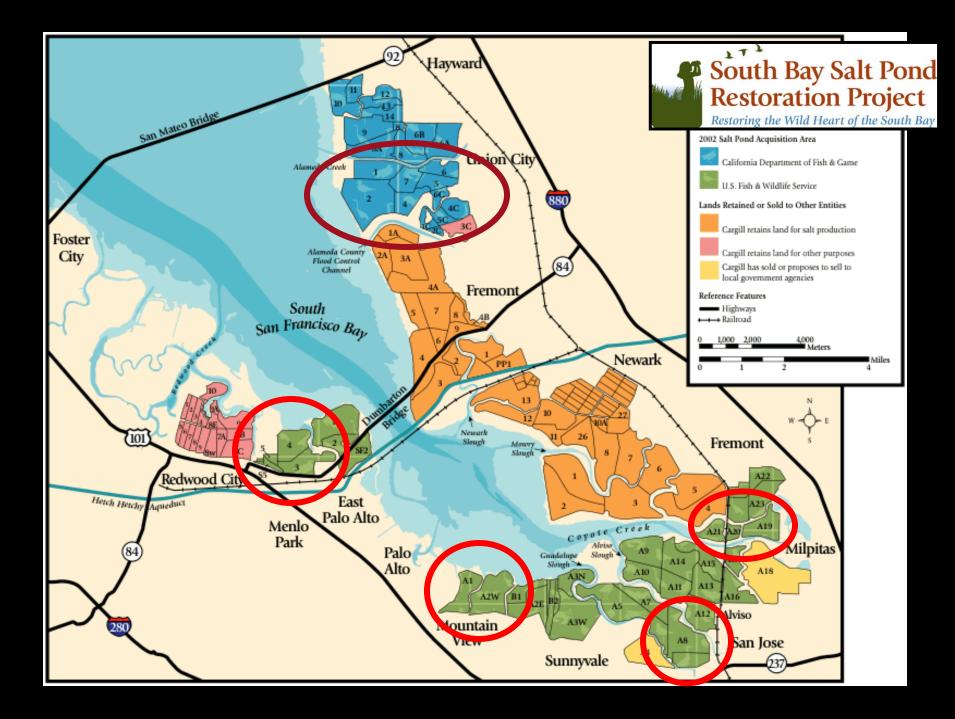
#### Kayak launch



### Phase 2 Project Areas

- Refuge 4 locations
  - Alviso Island Ponds
  - Alviso A8 Ponds
  - Alviso Mtn View Ponds
  - Ravenswood Ponds
- Eden Landing
  - Entire southern half





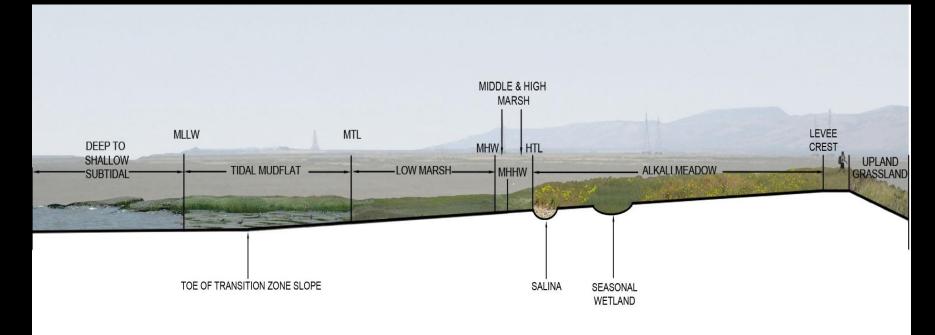
#### **Island Ponds – Complete**

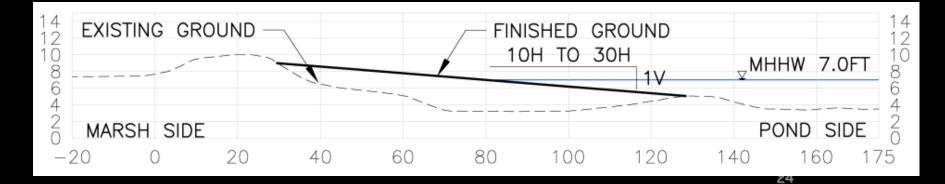


#### A8 Ponds – Ongoing



#### **Habitat Transition Zones**





#### Ravenswood – Underway

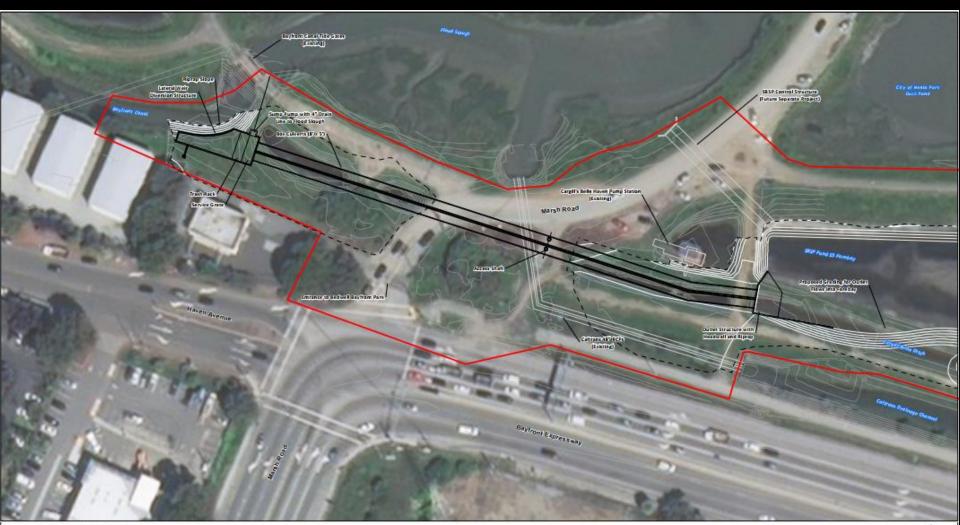


#### Phase 2 at Ravenswood

- Imported over 130,000 cubic yards
- Water control structures installed
- Much Phase 2 earthwork completed
- Import, earthwork, public access, breach – in 2022

#### ALSO: *Bayfront Canal & Atherton Channel Project* construction complete

#### **Bayfront Canal & Atherton Channel**







Project Limits
 Proposed Project Structures
 - - · Limits of Grading

Figure 4 Conceptual Site Plan - Bypass Culverts

Bayfront Canal and Atherton Channel Flood Management and Restoration Project

#### **Mtn View Ponds**



#### Phase 2 at Mountain View

- Addressed City concerns
- Pond A2W first; Pond A1 to follow
- Easement agreements in progress
- Import began in March; 20% done
- Full import & construction: 2022/23

#### Phase 2 at Eden Landing



### Phase 2 at Eden Landing

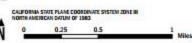
#### 2,200 acres total

- 1,400 acres tidal marsh
- 800 acres enhanced ponds & muted tidal
- Enhancing 3 rows of berms
- Bay Trail spine thru Eden Landing
- Includes gravel beach pilot project
- Separating permitting & construction into 2 'stages'

#### **Stage A of Phase 2**



Proposed Design - South Bay Salt Pond Restoration Project, Eden Landing Phase 2 Project Location: Alameda County Aeril Imagery: NAIP 2018 Aerial Imagery



### Phase 2 at Eden Landing

- Design at 60%
- Permit apps all submitted
  - Expect issuance in fall 2022
- Alameda Co. Flood Control District
  - Prop 68 grant for modeling, design, and joint project work
  - Addressing District concerns

## **Related Updates**

- Modifying QAPP to allow more reuse of upland material
- Expanded material provider market
- Outside projects and fundraising
  - A8 Creeks connections w/ Valley Water
  - SAFER Bay
  - South Bay Shoreline