

South Bay Salt Pond
Restoration Project

CALIFORNIA
DEPARTMENT OF
FISH & GAME

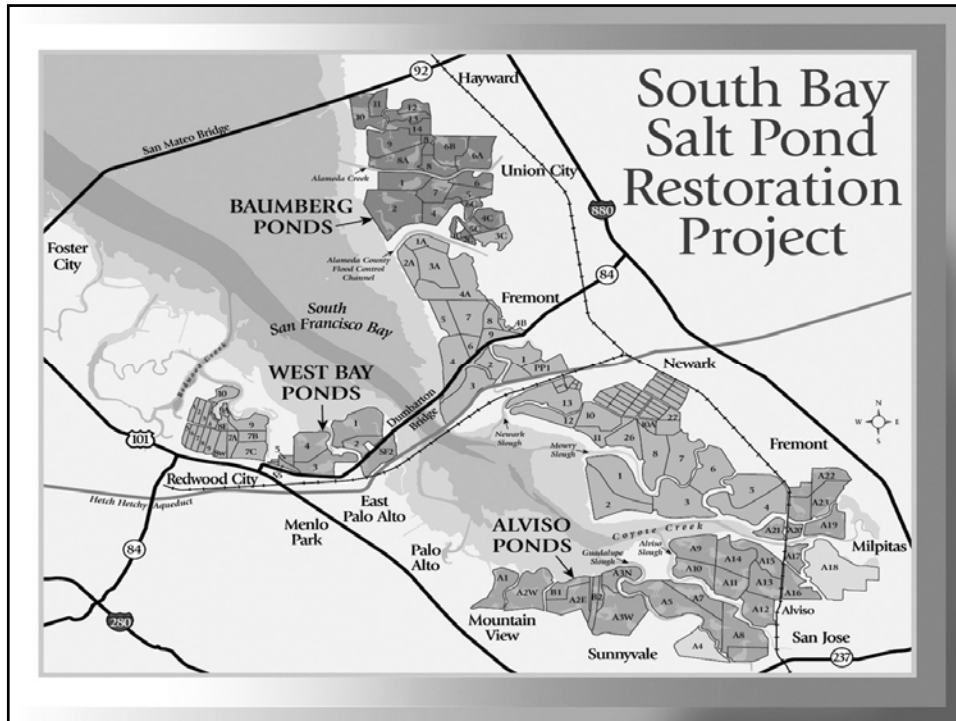
Coastal
Conservancy

U.S.
FISH & WILDLIFE
SERVICE

ISP Update: *USFWS*

- Replace broken water control structures
- Monitor pond conditions weekly
- Install riprap to protect Bayside levees
- Raise low sections of levees to prevent flooding
- Wildlife dependent recreation: Hunting

Stakeholder Forum Meeting Presentation



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Repair the Failed Water Control Structure at A7

- Pilings on new Water Control Structure
- Sink hole formed causing structure to fail
- Contractor replaced structure with new design

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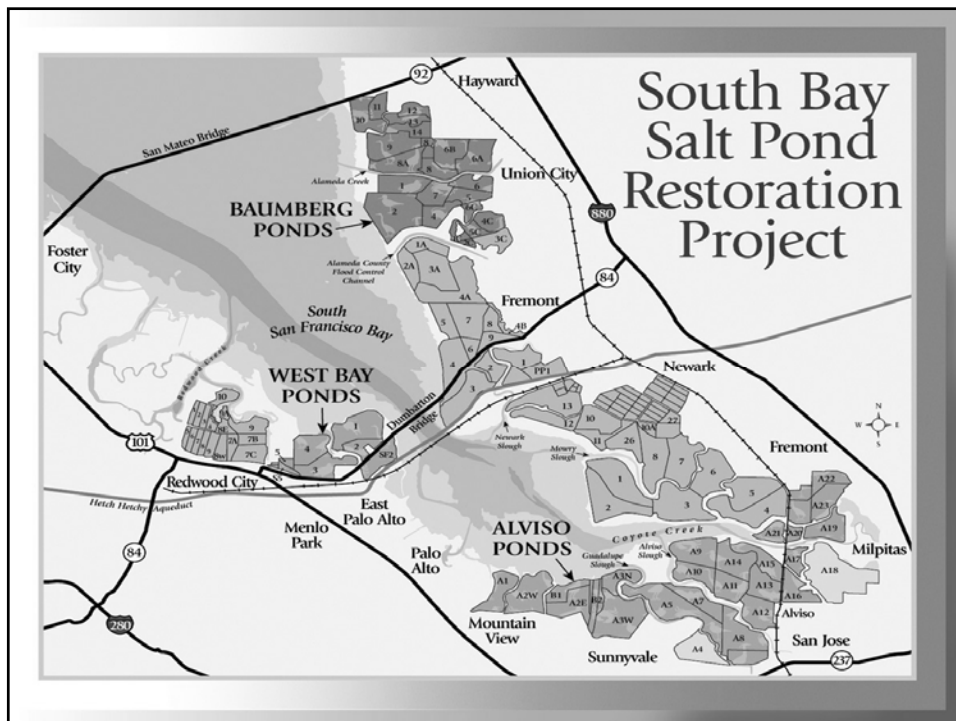



Old Pond AB1 Structure Fails


- Former Cargill Intake Water Control Structure failed



- Repaired intake with new culvert allows control of water levels



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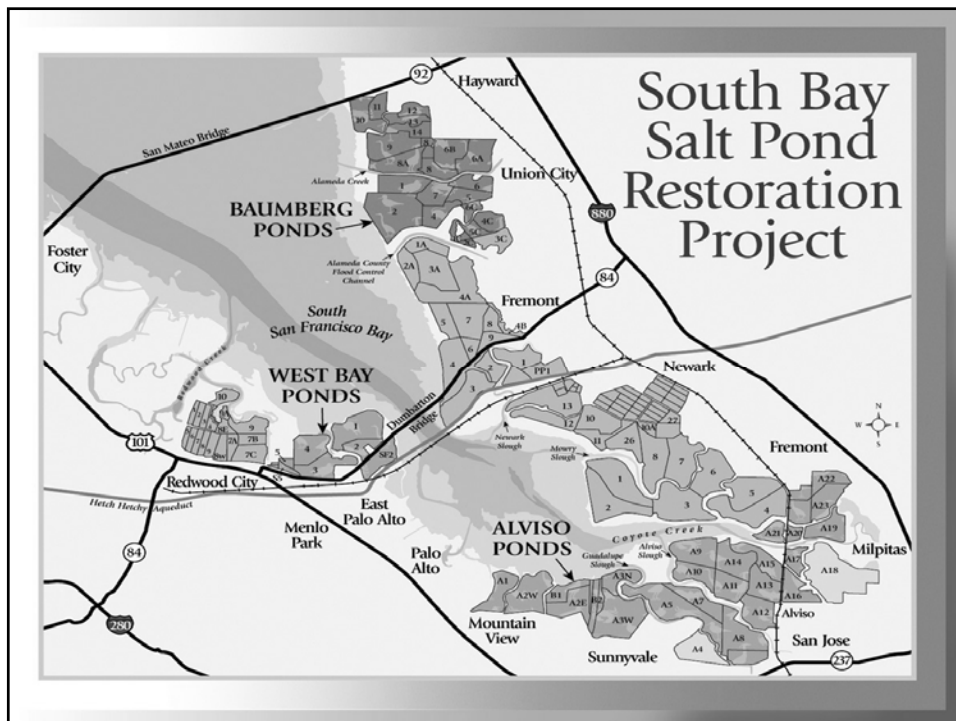


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Creativity at Pond A9 Saves \$\$





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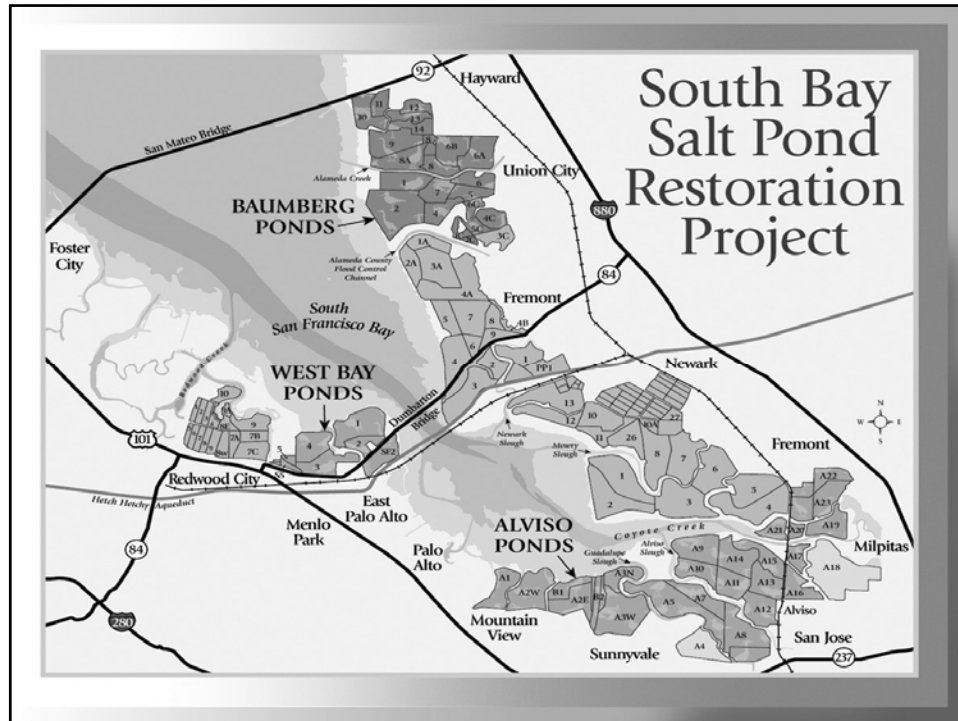
Header on Pond A9 Cracked





- Header holding headwall on former Cargill intake at A9 cracked causing potential breach of pond



- Repair completed averting safety issue


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Outlet Channel A14 Undersized

- Small Channel at A14 causes weak flow through system
- Poor water quality with low DO
- High salinity means fewer ducks present




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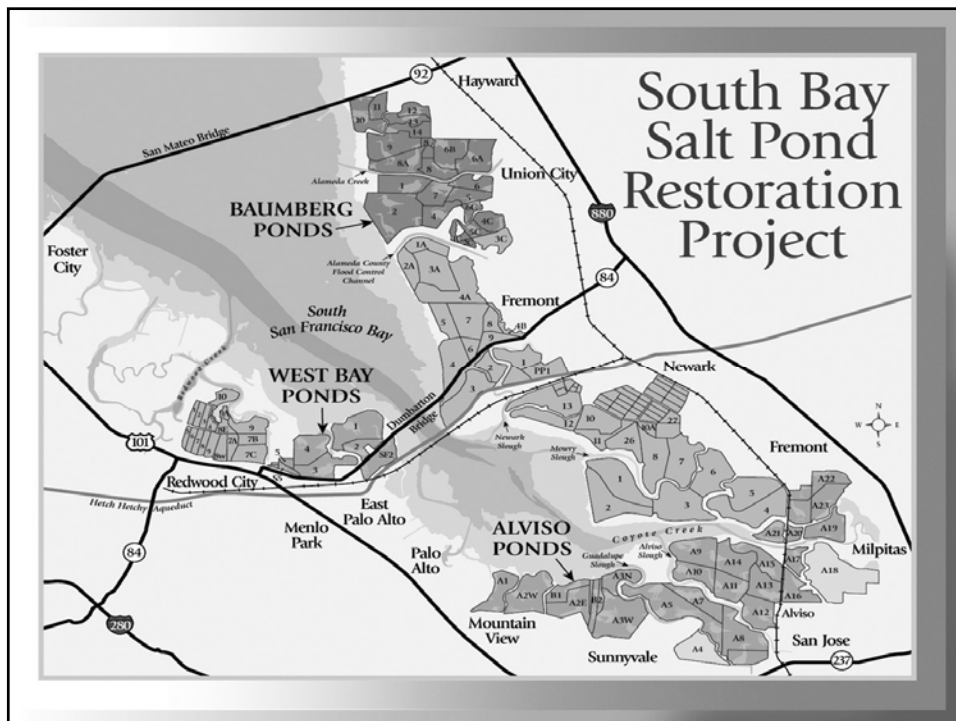
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A14 Channel Enlarged



- Compliance with DO Water Quality Standard went from 0% to 80%
- Salinity decreased resulting in higher waterbird use
- Sediment used to reinforce Pond levee




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Regular Monitoring Of Ponds

- Weekly checks of salinity, water levels and levee conditions prevents safety emergencies
- Old power pole floating in pond crashed through flapgate breaking it and lodging in trash rack: uncontrolled release of water in pond




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Riprap Protecting Levees Repaired




- This year an estimated 3500 ft. of rip rap has been installed along outboard levees of Ponds A2W, AB1, A3N, and A3W



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Low Sections of Levees Raised

- Two sections of levees raised including on Pond AB1 to protect NASA/AMES



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Wildlife Dependent Recreation



- Volunteer group of hunters helped build 2nd handicapped blind and improve other blinds
- Constructed new hunter kiosks to provide information and collect hunting data

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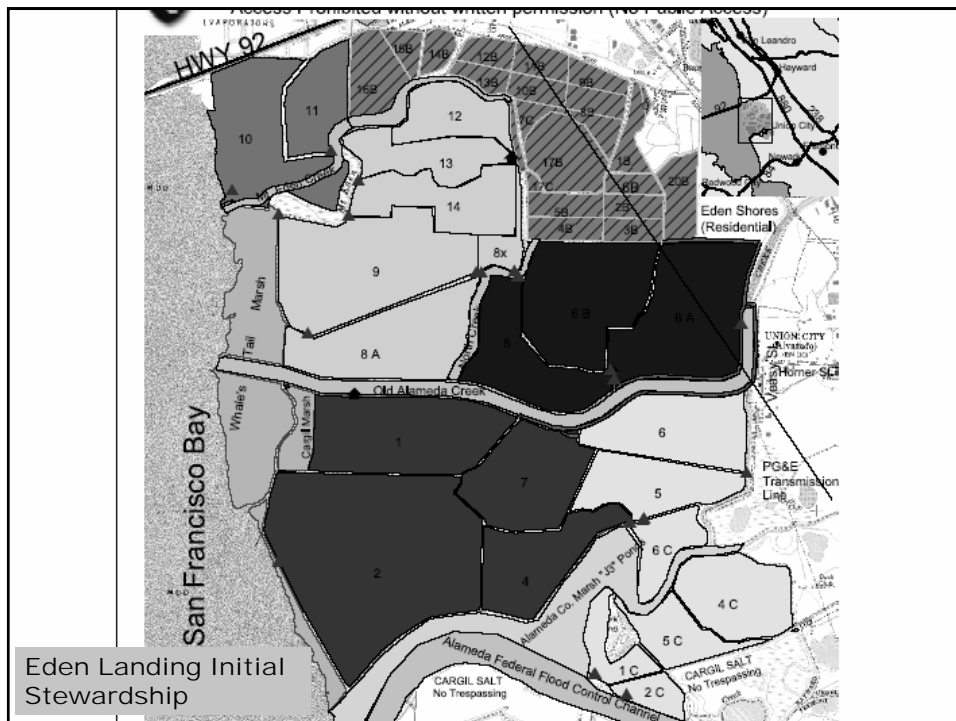


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Happy Refuge Users

- Over 1,000 duck hunter days on South Bay Ponds as of late November
- 3,000 ducks harvested




December 14, 2007



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Fall Migration Underway!


- Bird numbers significantly increased since the summer:
 - June: about 1700 birds observed
 - July: about 3200 birds observed
 - August: nearly 18,000
 - September and October: about 40,000 migrants using Eden Landing ponds and overwintering ducks being observed regularly



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Current Pond Management

- Operations have begun transition to deeper winter water levels for year-round open water ponds
- Reflooding seasonal ponds for increased habitat diversity
- Rainfall will be needed to result in winter pond operations



Current Pond Activities

- **Water Quality:** Monitoring complete.
- **Waterfowl Hunts:** Comparable to previous years: 30-50 people a day with about 3 birds per hunter.
- **Partnering:** Working with Ducks Unlimited to implement NAWCA grant to replace old water control structures.



Responding to Oil Spill

- After spill, all operable bay/slough intakes closed.
- No oil observed south of San Leandro Marina (very little there) and water control structures have been reopened.
- Regular monitoring conducted to determine if any oiled birds found their way to the south bay.
- Approximately 24 oiled birds observed, primarily along the shoreline.