South San Francisco Bay Salt Ponds Long-Term Restoration Planning









South Bay Salt Ponds Public Workshop

Introduction

- Presentation: Overview of Project
- Small table discussions
 - Recreation and Public Access
 - Restoration Design and Technical Information
 - Public Involvement

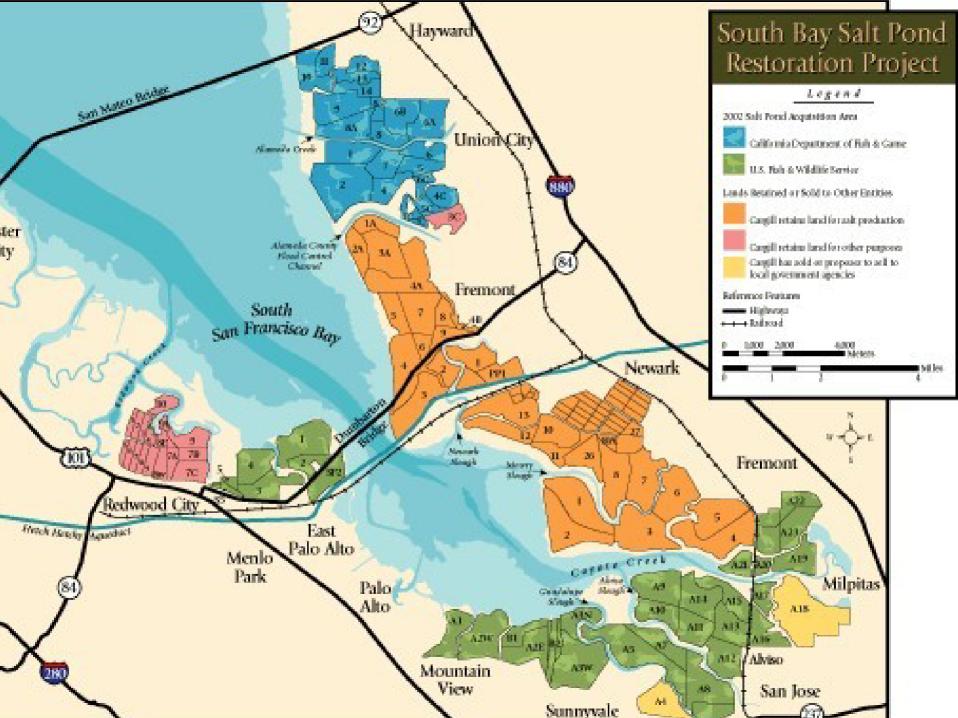


 Acquisition Phase-Out Initial Stewardship Long-Term Restoration Planning – Goals, Challenges, Opportunities – Planning Process - Public Involvement

Acquisition

16,500 acres (26 square miles)

- > 15,100 in South Bay (24 square miles)
- > 1,400 along Napa River (2 square miles)
- \$100 million
 - \$72m from State Wildlife Conservation Board
 - \$8m from US Fish and Wildlife Service
 - \$20m from Hewlett, Packard, Goldman, & Moore Foundations



Cargill Phase Out

 Cargill to meet permit requirements established by Regional Water Quality Control Board discharge permit

Phase-Out of Salt Production

- 1-2 years for low salinity ponds e.g. Baumberg (East Bay) and most Alviso (South Bay) ponds
- 3-6 years for higher salinity ponds e.g. West Bay (Redwood City) and Alviso ponds in Fremont
- 5-7 years for Napa Plant Site

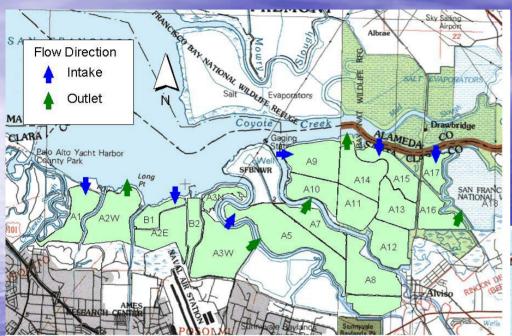
Initial Stewardship

DFG and FWS to manage acquired salt ponds after separation from existing saltmaking process by Cargill, until long-term restoration plan is completed and implemented.

Initial Stewardship Objectives

- Maintain habitat values of acquired ponds to the maximum extent feasible
- Assure that the ponds are maintained in a restorable condition during long-term restoration planning period
- Minimize interim management costs (by using gravity/avoiding pumping)
- Maintain existing levels of flood protection
- Minimize impacts to Bay from discharges
- Where feasible, restore ponds to tidal influence (3 small ponds)

Initial Stewardship





Baumberg



Long-Term Restoration Planning

 Planning period is 5 years with a budget of \$10 million

 Restoration will be phased in over decades

 Planning, monitoring and adaptive management will continue as restoration proceeds

Long-Term Restoration Planning



Mission: "To prepare a scientifically sound and publicly supported restoration and public access plan that can begin to be implemented within five years."

Project Goals

Wetland restoration:

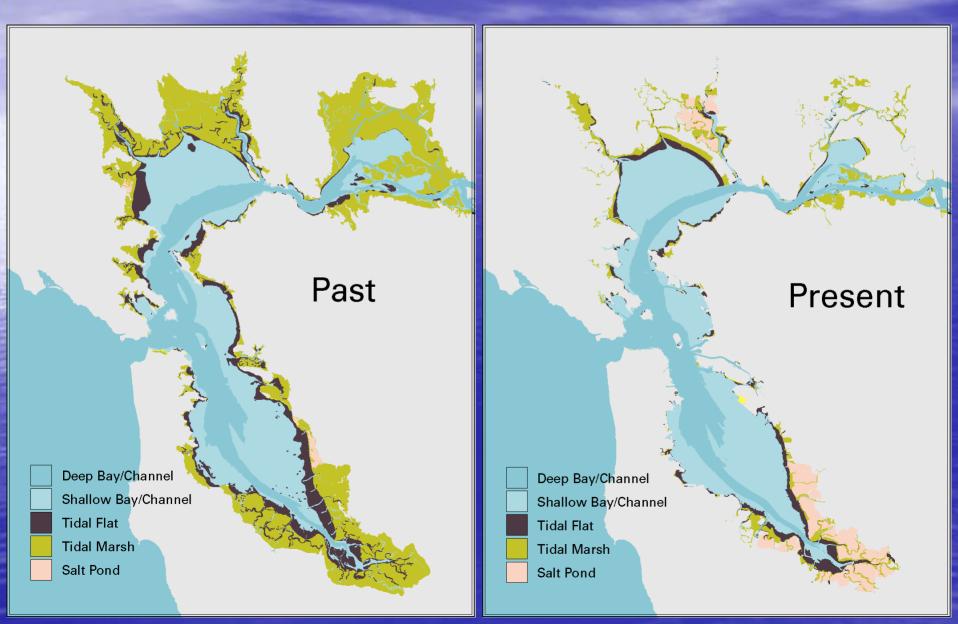
 Restore tidal wetlands
 Enhance managed ponds

 Flood management
 Wildlife-oriented public access and recreation





Extent of Past and Present Wetlands



Wetland Benefits

Wetland habitats play key roles in maintaining both a healthy ecosystem and economically vibrant region.

Wildlife Benefits of Tidal Marsh

- Endangered species habitat e.g. clapper rail, salt marsh harvest mouse
- Habitat for shorebirds, waterfowl, specialized salt tolerant plants, mammals, and fish

Wildlife Benefits of Managed Ponds

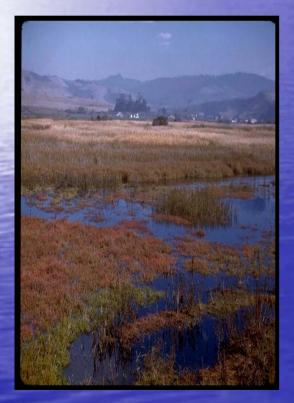
- An important food source and rest-stop for migratory birds on the Pacific Flyway
- Roosting and nesting area for resident birds
- Endangered species habitat, e.g. least tern, snowy plover

Wetland Benefits

In addition to providing fish and wildlife habitat, wetlands also provide benefits by:

- Providing open space and outdoor recreation
- Providing educational opportunities and outdoor laboratories
- Improving water quality
- Enhancing local flood protection
- Providing energy to the estuarine food web
- Helping to buffer shorelines against erosion, wave drainage, and storm surge

Wetland Restoration What is a Restoration Project?



 An ecological improvement which returns the land to its previous condition or enhances existing habitat.

 Restoration projects require planning, construction, monitoring, and long-term management.

Restoration: LaRiviere Marsh



 100 acres of former salt ponds in Fremont at Don Edwards SF Bay Refuge restored in mid-1980s

Regional Planning Efforts



A Report of Habitat Recommendations Propared by the San Francisco Bay Area Wetlands Ecosystem Goals Project

Challenges, Opportunities Landscape Scale of project (15,100 acres) Urban Setting



Challenges/Opportunities

Preferred Mix of Habitats

- Tidal wetlands, managed ponds, other habitats
- Balance and phasing of habitat types

Restoration of Tidal Wetlands



Some factors that we will need to consider:

- Subsidence of pond bottoms (minimal to over 10 feet)
- Source and quality of sediment
- Possible effects on water quality and circulation (hydrology) in Bay during and after construction
- Features to enhance wetland development and wildlife habitat

Enhancement of Managed Ponds

- Water circulation so that salt does not accumulate in ponds
- Optimal pond depths and salinities for migratory birds

Challenges/Opportunities

 Integrate Flood Management Features into Future Habitat Restoration



- Plan for Wildlife-Oriented Public Access and Recreation while protecting wildlife habitat
- Manage Introduced Species, e.g. Spartina
- Minimize the Potential for Mosquitoes
- Protect Existing Infrastructure

Plan for Monitoring/Adaptive Management

Many Interested Parties



Planning Process

5 years from acquisition to begin restoration efforts
Technical activities conducted on expedited schedule
Many technical tasks overlap, but some have to be sequential

Steps in the Technical Process

- Data collection
- Development of goals and objectives
- Modeling
- Development of alternatives (preliminary)
- Preliminary design
- Environmental review (CEQA/NEPA)
- Selection of Recommended Alternative
- Detailed design
- Permitting
- Construction
- Monitoring of restored areas
- Adaptive management

Major Milestones

	2002	2003	2004	2005	2006	2007	2008
Technical Studies		Data Collec Goals,	tion, Modeling,	Management			Phase 1 Restoration
Alternative Formulation		Objectives, Constraints		nary Alternative storation Plan	5,		
Engineering, Costing, Design				Prelim	Design, Costs	Plans an	d Specs
Environmental Clearances			Draf	t EIR/S	FEIR/S ROD	Permitting	
Public Outreach/Input		Education	Public F	Participation/Inp	ut		
Project Management							
Technical Review							
Corps Activities				FS Prepar	ation WRD		25

Executive Leadership Group

Agency Leaders of DFG, FWS, SCC oversee long-term restoration planning.

Implementation Team

A team will develop strategies to fund implementation.

Executive Council

High level trustee and regulatory agency representatives provide guidance and support.

Regulatory Agencies

Staff from regulatory agencies handle permitting.

Project Management Team

Staff of SCC, DFG, FWS will conduct day-to-day project management and ensure coordination with stakeholders.

Flood Management Team

Project Management Team will work with staff of Flood Control Districts and Corps to integrate flood manag ement and habitat restoration.

National Science Panel

National wetland restoration experts review process and science.

Technical Committee

Scientists review scopes of work and work products.

Public Involvement Committee Restoration, Flood Management, and Access

NGOs, agencies, and others meet regularly to receive project updates and pr ovide input on restoration and access planning as one group and in subcommittees.

Public Outreach Team

The Project Management Team, with representatives from other groups, will ensure the public r emains informed and has frequent opportunities for input.

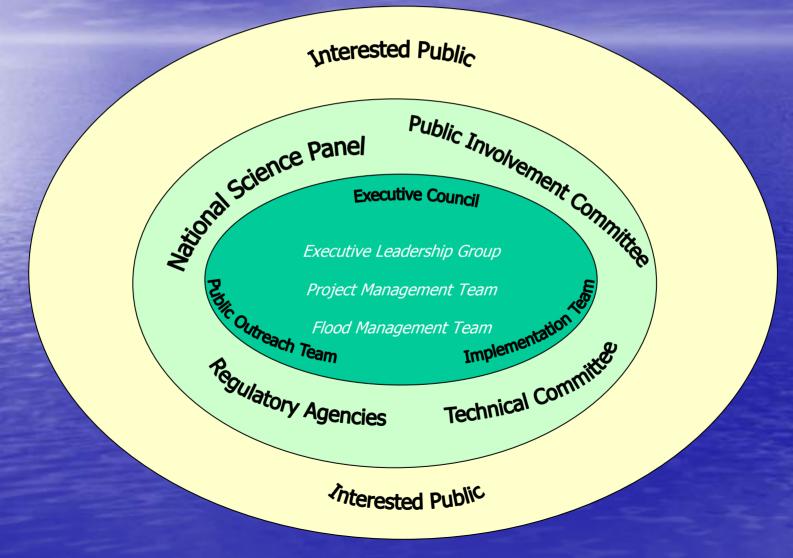
Key Public Decision Making Points

 Development of Goals, Alternatives, Data Needs
 NEPA/CEQA process
 Permits

Public Decision Making

INFORM	CONSULT	INVOLVE	COLLABORATE
Provide project information, alternatives and project decisions	Seek feedback on analysis, alternatives and proposed decision	Ensure issues are understood, considered and reflected in alternatives	Partner with interested groups on data analysis, development of alternatives, analysis of alternatives
Tools: •Public meetings •Website and newsletter •News and magazine articles	Tools: •Public meetings •Website and newsletter	Tools: •Public meetings	Tools: •Meetings

Public Involvement

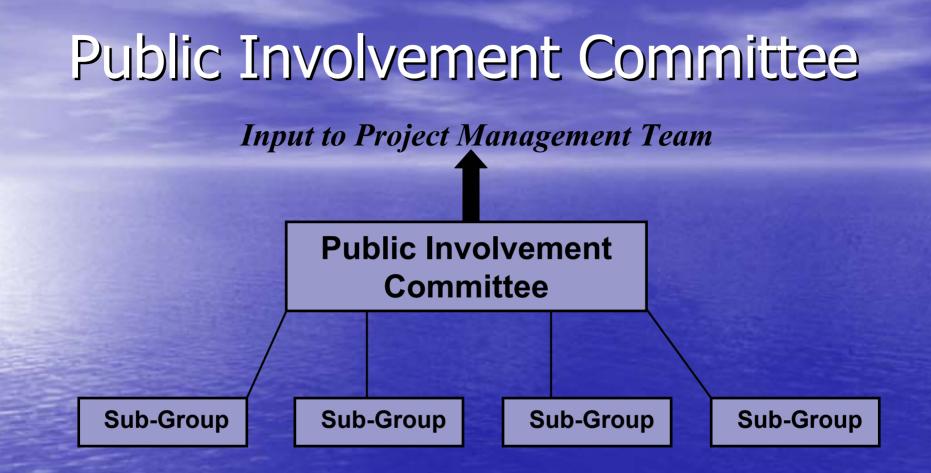


San Francisco Bay Joint Venture (SFBJV)

Established 1995

 Mission: protect, restore, increase and enhance wetlands, riparian habitat and associated uplands of SF Bay region for all types of wildlife

- Member organizations include 25+:
 - Public agencies
 - Environmental organizations
 - Business and agricultural community
 - Local government



Sub-Group Topics to be identified by the Public Involvement Committee

How to Get Involved



Attend public meetings

 Visit web site www.southbayrestoration.org

Get on mailing list

 Participate in Public Involvement Committee/subgroups

Other opportunities

Opportunities for Public Involvement



For More Information on Long-Term Restoration Planning or to get involved:

Tim Corrigan Project Administrator California State Coastal Conservancy 1330 Broadway, 11th Floor, Oakland, CA 94612 (510) 286-1015 phone tcorrigan@scc.ca.gov

Map, Schedule, Structure, Background on Web Site: <u>www.southbayrestoration.org</u>₃