











South Resto	Bay Salt Pond	
Biological Habitat		
San Francisco Bay habitat for al		
 Detailed Objectives Contribute to the recovery of the south bay subspecies of the salt marsh harvest mouse 	 Alternatives Evaluation Criteria Area of complete salt marshes, with broad marshplain (<i>i.e.</i>, pickleweed) habitat and broad upland/peripheral halophyte transitional zones Connectivity of such existing and restored marshes 	
Contribute to the recovery of the California Clapper Rail	 Area of broad tidal marshes with suitable channel densities and appropriate vegetation structure. Connectivity of such existing and restored marshes 	
Re-establish populations of special-status plants	Area of high marsh/upland transitional zones	
Contribute to the recovery of the Western Snowy Plovers and California Least Terns	• Area of suitable breeding habitat (salt pan islands, undisturbed levees), assuming appropriate foraging habitat is available.	
Enhance habitat for anadromous special-status fish. (Salmon and steelhead)	• Length of tidal channel habitat within marshes connected to creek and river systems that support or could support these species	

South Resto	n Bay Salt Pond
Biolo	gical Habitat – cont.
Objective 1B. Maintain current structures such as levees.	migratory bird species that utilize existing salt ponds and associated
Detailed Objectives	Alternatives Evaluation Criteria
 Maintain current populations of birds breeding at the salt ponds 	• Area of managed ponds with associated breeding islands
 Maintain habitat for salt pond specialized birds (<i>e.g.</i>, Wilson's Phalaropes) 	• Area of managed pond habitat with somewhat elevated salinities (100-140 ppt), and appropriate depths
Maintain current population levels for foraging shorebirds	• Estimate of foraging habitat area, including mudflat exterior to salt ponds, ponds and pans in tidal marshes and suitable foraging areas in managed ponds.

South B Restora	ay Salt Pond tion Project
Biologic	cal Habitat – cont.
	abundance and diversity of native species in various South San trial ecosystem components, including plants, invertebrates, fish, phibians.
Detailed Objectives	Alternatives Evaluation Criteria
 Maintain or enhance the populations of shorebirds currently using intertidal mudflat habitat 	Area of mudflat habitat available in the South Bay through the life of the project
Enhance South Bay fish populations	 Area of tidal marsh and tidal channel habitat within marshes, in combination with bay and mudflat habitat
 Enhance habitat for intertidal invertebrate populations by contributing to the grazing and detrital food webs 	Area of intertidal habitat, including tidal marshes and mudflats
 Maintain or enhance the populations of near-shore birds including waterfowl, currently using the Bay 	 Length of edge habitat (water or mudflat bordering on salt marsh) Area of mudflat and shallow waters inundated at high tide,
Enhance harbor seal habitat for foraging and isolated haul-out areas	 and area of shallow water ponds Area of new isolated, large/deep tidal channels adjacent to marsh plain
Enhance moist grassland habitats	 Areas where moist grasslands could grade into transitional habitats Length of edge where transitional habitats could grade into moist grasslands

South Resto	Bay Salt Pond Pration Project
Flo	od Management
Objective 2. Maintain or improve Detailed Objectives	e existing levels of flood protection in the South Bay area. Alternatives Evaluation Criteria
Maintain existing levels of flood protection in the South Bay area	 Must not increase the frequency of occurrence of flood inducing water levels^{1, 2, *}
Improve levels of flood protection in the South Bay area	• Decrease in frequency of occurrence of flood inducing water levels ^{1,2}
Remove FEMA identified areas of flood risk from the floodplain	• Area removed from the FEMA floodplain ¹
Provide flood protection to Corps standards	Area afforded adequate flood protection
	not desirable based on land use

2 include consideration of sediment deposition and erosion effects on water levels

* EXCLUSION CRITERION, i.e. must be met by alternative to carry forward and receive further consideration

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South Bay Salt Pond Restoration Project Coastal Conservancy Public Access and Recreation		
Objective 3. Provide public acces habitat goals.	s and recreational opportunities compatible with wildlife and	
Detailed Objectives	Alternatives Evaluation Criteria	
Improve public access and recreation in the project area	 Number of compatible public access and recreation opportunities consistent with DFG and USFWS missions and regulatory requirements. Number of opportunities for multi-agency/stakeholder partnering to plan, implement and manage public access and recreation 	
 Provide access and recreation that promotes wildlife- oriented public use 	 Number of opportunities for USFWS "priority uses" (e.g. wildlife observation, wildlife photography, environmental interpretation, environmental education, hunting, and fishing) Number of user experiences provided (e.g. access to the water, educational and interpretive opportunities, ability to experience a diversity of habitats) 	
 Provide recreation for a variety of uses and user types 	 Number of user groups and individuals that can be accommodated Number of access points and staging areas with amenities required for a variety of different uses Range and diversity of active and passive uses provided 	

South Bay Salt Pond Restoration Project Image: Conservance Public Access and Recreation Objective 3. Provide public access and recreational opportunities compatible with wildlife and habitat goals.		
Detailed Objectives Enhance opportunities for	Alternatives Evaluation Criteria Number of links provided 	
linking the project areas to existing public open spaces and adjacent communities.	 Number of Bay Trail spin gaps closed and spur and connector trails provided Number of links to public transit Number of opportunities for non-motorized, multi-modal access to and from the project area 	
Enhance opportunity for aesthetic experiences	 Number of opportunities for multi-sensory experiences. (e.g. open water and marsh views, smells of the bay, listen to wildlife and others) Number of popular viewing areas/viewpoints/ scenic overlooks Number of access points and trails that are close to the open 	
	bay	

	Bay Salt Pond
Objective 4. Protect or improve take into account ecological risks	
Detailed Objectives Maintain existing levels of water quality (surface and ground water)	 Alternatives Evaluation Criteria Within the range of background concentrations of key indicator constituents (e.g., mercury, metals, nutrients, algae)*
• Improve levels of water quality (surface and ground water)	Below the range of background concentrations of key indicator constituents (e.g., mercury, metals, nutrients, algae)
Limit ecological risk associated with mercury methylation and bioaccumulation	 No net increase in mercury or methylmercury loads to the bay Minimization of methylmercury production and biological uptake
 Limit mobilization of existing contaminants present in sediments 	

South Resto	Bay Salt Pond ration Project	Coastal Conservancy
Nuisance Species Management		
vector management, control pred invasive species.	Id management measures to mainta ation on special status species, and i	
Detailed Objectives Minimize colonization of mudflats and marshplain by non-native Spartina and its hybrids	 Alternatives Evaluation Criteria Area of potentially colonizat control measures are found to 	ble mudflat (assuming that no to be feasible)
Maintain or improve the current levels of vector management	• Increased area of potential m	nosquito habitat
Improve protection from predators and reduce need for	• Area of predator-accessible t	tidal marshes

	Bay Salt Pond ration Project
Objective 6. Protect the services wastewater treatment plants). Detailed Objectives	provided by existing infrastructure (e.g. power lines, railroads,
Maintain the services provided by existing infrastructure	Must not increase risk of failure or service degradation due to physical changes*
Maintain maintenance access for existing infrastructure	Does not eliminate maintenance access due to physical changes or limitations resulting from habitat improvements.
^c EXCLUSION CRITERION, i. eceive further consideration	e. must be met by alternative to carry forward and

South Restor	Bay Salt Pond	
Cost Effectiveness Objective 7. Consider costs of implementation, management, and monitoring so that planned activities can be effectively executed with available funding. Form partnerships and alliances to develop and institute a long-term viable funding strategy.		
Detailed Objectives	Alternatives Evaluation Criteria	
 Manage construction costs to achieve project goals and objectives with available funding 	• Dollars	
Manage long-term operations and maintenance costs	Dollars, 50-year time frame	
 Manage monitoring costs to support project goals and objectives 	Dollars, 10-year time frame	
Institute a long-term viable funding strategy	Assessment of institutional complexity and achievability	
 Increase partnerships and alliances to institute a long- term funding strategy 	• Participation by multiple entities (e.g., Corps, SCVWD, and others) in long-term funding	
Achieve a favorable	Calculation of benefit to cost (b/c) ratio, using Corps	
 Achieve a lavorable benefit/cost ratio. 	procedures	

South Restor	Bay Salt Pond
Envii	ronmental Impact
Objective 8. Promote environmen	ntal benefit and reduce impact in topics other than biology.
Detailed Objectives	Alternatives Evaluation Criteria
1. Preserve cultural resources,	Number of cultural resource sites impacted
including important archaeological and historical sites	• Number of opportunities for interpretation and education
2. Provide public services to	Number of law enforcement patrols needed
accommodate projected demand	Response times for fire, police and ambulance services
 Promote compatibility with surrounding land plans and uses 	Level of land use compatibility
4. Provide safe, convenient	Number of vehicle trips
access to the project area	Number of parking spaces
while managing congestion	Number of bicycle lanes
on nearby streets	Level of service on nearby roads
 Enhance air quality for proposed and surrounding uses 	Air pollutant levelsPotential for creation of objectionable odors
6. Manage noise levels for	Decibel levels
proposed and surrounding	 Number of noise-generating activities
uses	 Distance between noise-generating activities and nearby sensitive receptors















