

Table 6-8. SBSP Restoration Project Phase 2 EIS/R Summary Impact Table

IMPACT	ALTERNATIVES													PREF ALT
	ISLAND			MOUNTAIN VIEW			A8		RAVENSWOOD					
	A	B	C	A	B	C	A	B	A	B	C	D		
3.2 Hydrology, Flood Management, and Infrastructure														
Phase 2 Impact 3.2-1: Increased risk of flooding that could cause injury, death, or substantial property loss.	LTS	LTS	LTS	LTS	LTS	LTS/B	LTS	LTS	LTS	LTS	LTS	LTS/B	LTS	
Phase 2 Impact 3.2-2: Alter existing drainage patterns in a manner which would result in substantial erosion or siltation on- or off-site.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.2-3: Create a safety hazard for people boating in the project area.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.2-4: Potential effects from tsunami and/or seiche.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.3 Water Quality and Sediment														
Phase 2 Impact 3.3-1: Degradation of water quality due to changes in algal abundance or composition.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.3-2: Degradation of water quality due to low dissolved oxygen levels.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.3-3: Degradation of water quality due to increased methylmercury production or mobilization of mercury-contaminated sediments.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.3-4: Potential impacts to water quality from other contaminants.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.3-5: Potential to cause seawater intrusion of regional groundwater sources.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.4 Geology, Soils, and Seismicity														
Phase 2 Impact 3.4-1: Potential effects from settlement due to consolidation of Bay mud.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.4-2: Potential effects from liquefaction of soils and lateral spreading.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.4-3: Potential for ground and levee failure from fault rupture.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	

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Phase 2 Impact 3.4-4: Potential effects from consolidation of Bay mud on existing subsurface utility crossings and surface rail crossings.	LTS	LTS	LTS	NI	NI	NI	NI	LTS	NI	NI	NI	LTS	LTS	
3.5 Biological Resources														
Phase 2 Impact 3.5-1: Potential reduction in numbers of small shorebirds using San Francisco Bay, resulting in substantial declines in flyway-level populations.	LTS	LTS	LTS	NI	LTS/B	LTS	NI	LTS/B	NI	LTS	LTS/B	LTS	LTS/B	
Phase 2 Impact 3.5-2: Loss of intertidal mudflats and reduction of habitat for mudflat-associated wildlife species.	LTS	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS/B	LTS	LTS	
Phase 2 Impact 3.5-3: Potential habitat conversion impacts to western snowy plovers.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-4: Potential reduction in the numbers of breeding, pond-associated waterbirds (avocets, stilts, and terns) using the South Bay due to reduction in habitat, concentration effects, displacement by nesting California gulls, and other Project-related effects.	LTS	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	
Phase 2 Impact 3.5-5: Potential reduction in the numbers of non-breeding, salt-pond-associated birds (e.g., phalaropes, eared grebes, and Bonaparte’s gulls) as a result of habitat loss.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-6: Potential reduction in foraging habitat for diving ducks, resulting in declines in flyway-level populations.	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS	NI	LTS/B	LTS	LTS/B	LTS	
Phase 2 Impact 3.5-7: Potential reduction in foraging habitat for ruddy ducks, resulting in declines in flyway-level populations.	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS	NI	LTS/B	LTS	LTS/B	LTS	
Phase 2 Impact 3.5-8: Potential habitat conversion impacts on California least terns.	NI	NI	NI	NI	LTS	LTS	LTS	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	

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Phase 2 Impact 3.5-9: Potential loss of pickleweed-dominated tidal salt marsh habitat for the salt marsh harvest mouse and salt marsh wandering shrew, and further isolation of these species' populations due to breaching activities and scour.	LTS/B	LTS/B	LTS/B	NI	LTS/B	LTS/B	NI	LTS/B	NI	LTS/B	LTS/B	LTS/B	LTS/B	
Phase 2 Impact 3.5-10: Potential construction-related loss of or disturbance to special-status, marsh-associated wildlife.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-11: Potential construction-related loss of or disturbance to nesting pond associated birds.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-12: Potential disturbance to or loss of sensitive wildlife species due to ongoing monitoring, maintenance, and management activities.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-13: Potential effects of habitat conversion and pond management on steelhead.	LTS/B	LTS/B	LTS/B	NI	LTS/B	LTS	NI	LTS	NI	NI	NI	NI	LTS/B	
Phase 2 Impact 3.5-14: Potential impacts to estuarine fish.	LTS/B	LTS/B	LTS/B	NI	LTS/B	LTS	NI	NI	NI	LTS/B	LTS	LTS/B	LTS/B	
Phase 2 Impact 3.5-15: Potential impacts to piscivorous birds.	LTS/B	LTS/B	LTS/B	NI	LTS	LTS	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS/B	
Phase 2 Impact 3.5-16: Potential impacts to dabbling ducks.	LTS/B	LTS/B	LTS/B	NI	LTS	LTS	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	
Phase 2 Impact 3.5-17: Potential impacts to harbor seals.	LTS/B	LTS/B	LTS/B	NI	LTS/B	LTS/B	NI	NI	NI	NI	NI	NI	LTS/B	
Phase 2 Impact 3.5-18: Potential recreation-oriented impacts to sensitive species and their habitats.	LTS	LTS	LTS	NI	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-19: Potential impacts to special-status plants.	NI	LTS	LTS	NI	NI	NI	NI	NI	NI	NI	NI	NI	LTS	

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Phase 2 Impact 3.5-20: Colonization of mudflats and marsh plain by non-native <i>Spartina</i> and its hybrids.	LTS	LTS	LTS	LTS	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-21: Colonization by non-native <i>Lepidium</i> .	LTS	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-22: Increase in exposure of wildlife to avian botulism and other diseases.	NI	NI	NI	NI	NI	NI	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.5-23: Potential impacts to bay shrimp populations.	LTS/B	LTS/B	LTS/B	NI	LTS/B	LTS/B	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	
Phase 2 Impact 3.5-24: Potential impacts to jurisdictional wetlands or waters.	LTS	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	
Phase 2 Impact 3.5-25: Potential construction-related loss of, or disturbance to, nesting raptors (including burrowing owls).	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
3.6 Recreation Resources														
Phase 2 Impact 3.6-1: Provision of new public access and recreation facilities, including the opening of new areas for recreational purposes and completion of the Bay Trail spine.	NI	LTS	LTS	PS	PS	LTS/B	NI	NI	PS	PS	LTS/B	LTS/B	PS	
Phase 2 Impact 3.6-2: Permanent removal of existing recreational features (trails) in locations that visitors have been accustomed to using and that would not be replaced in the general vicinity of the removed feature.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	
Phase 2 Impact 3.6-3: Increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur or be accelerated.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	NI	LTS	LTS	LTS	

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Phase 2 Impact 3.6-4: Result in substantial adverse physical impacts associated with the provision of new or physically altered park and recreational facilities, or result in the need for new or physically altered park and recreational facilities, the construction of which could cause significant environmental impacts.	NI	NI	NI	NI	LTS/B	LTS/B	NI	NI	NI	LTS	LTS/B	LTS/B	LTS/B	
Phase 2 Impact 3.6-5: Result in the temporary construction-related closure of adjacent public parks or other recreation facilities, making such facilities unavailable for public use.	NI	NI	NI	NI	SU	SU	NI	NI	NI	SU	SU	SU	SU	
3.7 Cultural Resources														
Phase 2 Impact 3.7-1: Potential disturbance of known or unknown cultural resources.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.7-2: Potential disturbance of the historic salt ponds and associated structures which may be considered a significant cultural landscape.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
3.8 Land Use and Planning														
Phase 2 Impact 3.8-1: Land use compatibility impacts.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.9 Public Health and Vector Management														
Phase 2 Impact 3.9-1: Potential increase in mosquito populations.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.10 Socioeconomics and Environmental Justice														
Phase 2 Impact 3.10-1: Displace, relocate, or increase area businesses, particularly those associated with the expected increase in recreational users.	NI	LTS/B	LTS/B	NI	LTS/B	LTS/B	NI	LTS/B	NI	LTS/B	LTS/B	LTS/B	LTS/B	
Phase 2 Impact 3.10-2: Change lifestyles and social interactions.	NI	LTS/B	LTS/B	NI	LTS/B	LTS/B	NI	LTS/B	NI	LTS/B	LTS/B	LTS/B	LTS/B	

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Phase 2 Impact 3.10-3: Effects disproportionately placed on densely populated minority and low-income communities or effects on racial composition in a community.	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	NDE	
3.11 Traffic														
Phase 2 Impact 3.11-1: Potential short-term degradation of traffic operations at intersections and streets due to construction.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTSM	LTSM	LTSM	LTSM	
Phase 2 Impact 3.11-2: Potential long-term degradation of traffic operations at intersections and streets during operation.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.11-3: Potential increase in parking demand.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.11-4: Potential increase in wear and tear on the designated haul routes during construction.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
3.12 Noise														
Phase 2 Impact 3.12-1: Short-term construction noise effects.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.12-2: Traffic-related noise impacts during construction.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.12-3: Traffic-related noise effects during operation.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.12-4: Potential operational noise effects from O&M activities.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.12-5: Potential vibration effects during construction and/or operation.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.13 Air Quality														
Phase 2 Impact 3.13-1: Short-term construction-generated air pollutant emissions.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.13-2: Potential long-term operational air pollutant emissions.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	

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Phase 2 Impact 3.13-3: Potential exposure of sensitive receptors to TAC emissions.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.13-4: Potential odor emissions.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
3.14 Public Services														
Phase 2 Impact 3.14-1: Increased demand for fire and police protection services.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
3.15 Utilities														
Phase 2 Impact 3.15-1: Reduced ability to access PG&E towers, stations or electrical transmission lines.	NI	NI	NI	LTS	LTS	LTS	NI	NI	NI	NI	NI	NI	LTS	
Phase 2 Impact 3.15-2: Reduced clearance between waterways and PG&E electrical transmission lines.	NI	NI	NI	NI	LTS	LTS	NI	NI	NI	NI	NI	NI	LTS	
Phase 2 Impact 3.15-3: Reduced structural integrity of PG&E towers.	NI	NI	NI	LTS	LTS	LTS	NI	NI	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.15-4: Changes in water level, tidal flow and sedimentation near storm drain systems.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.15-5: Changes in water level, tidal flow and sedimentation near pumping facilities.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.15-6: Changes in water level, tidal flow and sedimentation near sewer force mains and outfalls.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	
Phase 2 Impact 3.15-7: Disrupt Hetch Hetchy Aqueduct service so as to create a public health hazard or extended service disruption.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	
Phase 2 Impact 3.15-8: Disruption of rail service due to construction of coastal flood levees and tidal habitat restoration.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	
Phase 2 Impact 3.15-9: Reduced access to sewer force mains due to levee construction.	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	

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3.16 Visual Resources														
Phase 2 Impact 3.16-1: Alter views of the SBSP Restoration Project Area.	LTS	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS/B	LTS/B	LTS/B	LTS	
3.17 Greenhouse Gas Emissions														
Phase 2 Impact 3.17-1: Construction-generated GHG emissions.	NI	LTS	LTS	NI	LTS	LTS	NI	LTS	NI	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.17-2: Operational GHG emissions.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	
Phase 2 Impact 3.17-3: Conflicts with applicable GHG emissions reduction plan, policy, or regulation.	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	

Notes:

Alternative A at each pond cluster is the No Action/No Project Alternative.

B = Beneficial; LTS = Less Than Significant; LTSM = Less Than Significant With Mitigation; NDE = No Disproportionate Effect; NI = No Impact; PS = Potentially Significant; SU = Significant and Unavoidable

The levels of significance for the impacts listed above assume that the program-level mitigation measures from the 2007 EIS/R and the elements of the Adaptive Management Plan are integral components of the Phase 2 project alternatives, and that management responses would be implemented based on ongoing monitoring and applied studies.