

Alternative 18: (1A , 2 A, 3 A, 4 B - MAX)

Category	Actions Selected	Functional Basis for Inclusion	Specification for Action Implementation
	Restoration of Delta Shallow Water (Tidal) Habitat		
	-Protect existing shallow habitat from erosion	Improved habitat for all species	
	-Restore tidal action to existing diked wetlands	Improved habitat for all species	
	-Reconstruct levees to include shallow water habitat	Improved habitat for all species	
	-Fill deep water to produce shallow habitat	Improved habitat for all species	
	Restoration of Delta Riverine Habitat		
	-Reconstruct river banks and shallow areas	Improved habitat for fish species	Action not to impinge or alter existing land uses
	-Restore/preserve channel islands	Improved habitat for fish species	Action not to impinge or alter existing land uses
	-Restore natural channel configurations	Improved habitat for fish species	Action not to impinge or alter existing land uses
	-Modify construction practices to include riverine elements	Improved habitat for fish species	Action not to impinge or alter existing land uses
	Restoration of Delta Riparian Habitat		
	-Improve and protect degraded riparian habitats	Improved habitat for all species	Action not to impinge or alter existing land uses
	-Modify levee maintenance practices	Improved habitat for all species	Action not to impinge or alter existing land uses
	-Protect existing riparian habitat	Improved habitat for all species	Action not to impinge or alter existing land uses
	Restoration of Delta Wetland Habitat		
	-Expand wetland acquisition programs	Improved habitat for all species	Action not to impinge or alter existing land uses
	Restoration of Delta Terrestrial Habitat	Improved habitat for terrestrial species	Action not to impinge or alter existing land uses
	Integrated Habitat Management Programs	Improved habitat for all species	Action not to impinge or alter existing land uses
	Control of Introduced Species		
	-Remove or reduce nuisance species in key habitats	Improved habitat for all species	
	-Inspect for invasions of nuisance species	Improved habitat for all species	
	-Modify habitat to favor native species	Improved habitat for all species	
	Delta Waterfowl Habitat Management		
	-Improve management of public waterfowl areas	Improved habitat for terrestrial species	Action not to impinge or alter existing land uses
	-Implement terrestrial predator control programs	Improved habitat for terrestrial species	
	-Increase sources and availability of wildlife forage	Improved habitat for terrestrial species	Action not to impinge or alter existing land uses
	Restoration of Upstream Anadromous Fish Habitat		
	-Manage flows and temperatures in upstream habitats		
	-Manage flows in upstream habitats	Improvements for anadromous fish species	
	-Manage temperatures in upstream habitats	Improvements for anadromous fish species	
	-Restore and replenish spawning gravels	Improvements for anadromous fish species	
	-Restore channel configurations	Improvements for anadromous fish species	
	-Restore shoreline habitat conditions	Improvements for anadromous fish species	
	-Improve floodway drainage to reduce fish stranding	Improvements for anadromous fish species	
	Physical Improvements for Fish Passage		
	-Modify passage at upstream dams/other barriers	Improvements for anadromous fish species	
	-Modify natural barriers to improve passage	Improvements for anadromous fish species	
	Restoration of Upstream Riparian Habitat		
	-Revegetate degraded riparian habitats	Improved habitat for all species	
	-Protect riparian lands through purchase/easements	Improved habitat for all species	
	-Restore flows to dewatered riparian habitats	Improved habitat for all species	
	Increased Rates of Diversion Capacity		

B-004875
B-004875

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	-Obtain approvals for expanded export capacities		
	-To generate yield	Reduce critical period demand from the Delta	Increase pumping capacities during non-critical periods
	-Enlarge export pumping capacities		
	-To generate yield	Reduce critical period demand from the Delta	Increase pumping capacities during non-critical periods
	Acquire Water Supplies for Fish and Wildlife		
	-Acquire water for refuge habitat use	Improvement for all fish species	
	-Modify water law to establish instream rights	Improvement for all fish species	
	Install Barriers to Guide Fish Movement		
	-Install barriers to keep fish in Sacramento River	Improvements for anadromous fish species	
	-Install barriers to divert fish from Sacramento to western channels	Improvements for anadromous fish species	
	Fish Hatchery Operations		
	-Expand hatchery capacities	Improvements in fish populations	
	-Construct new hatcheries on the San Joaquin R.	Improvements in fish populations	
	-Improve hatchery operations	Improvements in fish populations	
	-Reduce hatchery effects on wild fish populations	Improvements in fish populations	
	-Implement bagging of hatchery-bred fish	Improvements in fish populations	
	-Establish new captive breeding programs	Improvements in fish populations	
	Fish Harvest Management		
	-Improve regulation of commercial take	Improvements for anadromous fish species	
	-Improve regulation of recreational take	Improvements for anadromous fish species	
	-Improve enforcement of harvest regulations	Improvements for anadromous fish species	
	Desalination		
	-Expand desalination of Southern California supplies	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Improve desalination technologies and cost	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Educate users about desalination feasibility	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	Water Conservation		
	-Increase use of district-wide conservation practices	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Increase use of on-farm conservation practices	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Increase use of municipal conservation practices	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Increase use of industrial conservation practices	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Implement financial incentive policies	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Educate users about conservation technologies	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Implement conservation-oriented rate structures	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	Water Reclamation		
	-Recharge groundwater with reclaimed water	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water for agricultural irrigation	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Reclaim saline agricultural drainage water	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Recycle and treat water for potable reuse	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water for nonpotable urban uses	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water for landscape irrigation	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water for power plant cooling	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water for industrial processes	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Use reclaimed water to repel salinity intrusion	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Improve reclamation technologies and cost	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Educate public about water reclamation	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only

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	Water Pricing		
	-Establish incentives for pricing to reduce demand	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Educate users about pricing feasibility	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Remove legal obstacles to pricing incentive programs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	New or Expanded On-Stream Storage		
	-Construct new storage south of Delta	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Enlarge existing on-stream storage reservoirs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Modify operations of existing on-stream reservoirs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	New or Expanded Off-Stream Storage		
	-Construct new storage south of Delta	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Enlarge existing off-stream storage reservoirs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Modify operations of existing off-stream reservoirs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	Groundwater Banking and Conjunctive Use	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Modify California Water Code to encourage conjunctive use	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Establish conjunctive use programs	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Store groundwater south of Delta	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	-Implement techniques to increase groundwater recharge	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	Water Resources Data and Information Management		
	Institutions for Integrated Long-term Water Management		
	-Establish long-term guarantees for management	Management for problem area	
	-Establish institution to implement guarantees	Management for problem area	
	Integration of Land-Use and Water-Supply Planning		
	-Coordinate land uses with water supplies	Reduce critical period demands from the Delta	Action to be implemented in the Delta export area only
	Installation and Operation of Flow Barriers		
	-Install flow barriers to manage South Delta quality	Manage instream water quality	
	-Install weirs to control salinity intrusion	Manage instream water quality	
	Management of Agricultural Drainage		
	-Dilute pollutants in Delta inflow from SJR using stored water	Manage instream water quality	
	Management of Urban and Wastewater Discharge		
	Levee Maintenance and Stabilization		
	-Modify agricultural practices to reduce subsidence	Preserve existing land uses	Actions should not impinge or alter existing land use patterns
	-Use infilling to correct past subsidence	Preserve existing land uses	Actions should not impinge or alter existing land use patterns
	Improvement of Flooding & Seismic Protections		
	-Reconstruct levees to higher design standards	Preserve existing land uses	
	-Reconstruct levees to higher seismic standards	Preserve existing land uses	
	Establishment of Long-Term Funding Mechanisms	Establish funding for all management programs	