

Table ES-4. Impacts of Alternative Plans with Potential to Result in a Cumulatively Considerable Incremental Contribution to a Significant Cumulative Impact

Resource Area	Impact
Air Quality and Greenhouse Gas Emissions	AQ-1: Project-Generated Construction-Related Criteria Air Pollutant and Precursor Emissions that would Violate or Contribute Substantially to an Existing or Projected Violation, or Expose Sensitive Receptors to Substantial Pollutant Concentrations AQ-4: Generation of Greenhouse Gas Emissions that Would Significantly Impact the Environment
Biological Resources – Fisheries and Aquatic Ecosystems	FSH-1: Loss of Riverine Habitat for Lotic Fish Species FSH-9: Loss of Spawning Habitat of American Shad and Striped Bass FSH-11: Change in Water Temperature Conditions Supporting Juvenile Salmon and Steelhead Migration FSH-18: Effects on Delta Fish Habitat from Changes in Water Temperatures and DO Concentrations
Biological Resources – Botanical and Wetlands	BOT-1: Loss of Special-Status Plants and Loss or Degradation of Special-Status Plant Habitat BOT-2: Loss of Riparian Habitat and Other Sensitive Communities BOT-6: Conflict with Local or Regional Policies and Plans Protecting Wetland or Botanical Resources
Biological Resources – Wildlife	WLD-1: Substantial Impact on Special-Status Invertebrates WLD-2: Substantial Impact on Special-Status Amphibians and Reptiles WLD-3: Substantial Impact on Special-Status Raptors WLD-4: Substantial Impact on Special-Status Passerines or Birds Protected by the Migratory Bird Treaty Act WLD-5: Substantial Impact on Ringtail WLD-6: Substantial Impact on American Badger WLD-7: Substantial Impact on San Joaquin Pocket Mouse WLD-8: Substantial Impact on Special-Status Bat Species WLD-9: Substantial Impact on Migratory and Wintering Deer Herds WLD-10: Potential Conflict with Fresno County and Madera County General Plan Objectives and Guidelines
Cultural Resources	CUL-1: Disturbance or Destruction of Known or Previously Undiscovered Prehistoric Resources Due to Construction, Inundation, and Project Operation CUL-2: Disturbance or Destruction of Known or Previously Undiscovered Historic-Era Resources Due to Construction, Inundation, and Project Operation CUL-3: Construction and Management of Project Components That would Cause a Substantial Adverse Change in the Significance of a Historical and/or Unique Archaeological Resource, Historic Property, or Historic District CUL-4 Destruction or Damage to Traditional Cultural Properties CUL-5 Destruction or Damage to Indian Sacred Sites
Environmental Justice	ENJ-1: Disproportionately High and Adverse Impacts on Minority and Low Income Populations
Geology and Soils	GEO-2: Alteration of Fluvial Geomorphology that would Adversely Affect Aquatic Habitat GEO-4: Substantial Soil Erosion or Loss of Topsoil Due to Construction and Operations
Hydrology – Groundwater	GRW-1: Change in Groundwater Levels GRW-2: Change in Groundwater Quality
Hydrology – Surface Water Quality	SWQ-4: Long-Term Water Quality Effects that would Violate Water Quality Standards or Adversely Affect Beneficial Uses within the Primary Study Area and San Joaquin River
Land Use Planning and Agricultural Resources	LUP-1: Disruption of Existing Land Uses LUP-2: Conflict with Adopted Plans LUP-3: Conversion of Farmland to Nonagricultural Uses and Cancellation of Williamson Act Contracts LUP-4: Conversion of Forest Land

Table ES-4. Impacts of Alternative Plans with Potential to Result in a Cumulatively Considerable Incremental Contribution to a Significant Cumulative Impact (contd.)

Resource Area	Impact
Noise and Vibration	NOI-1: Exposure of Sensitive Receptors to Noise Generated by Facility Construction NOI-3: Exposure of Sensitive Receptors in the Primary Study Area to Construction-Related Traffic Noise NOI-5: Long-Term Increases in Traffic Noise
Power and Energy	PWR-1: Decrease in Kerckhoff Hydroelectric Project Energy Generation and Ancillary Services
Socioeconomics, Population, and Housing	SOC-9: Impacts on Agricultural Economics in the CVP and SWP Water Service Areas
Visual Resources	VIS-1: Consistency with Applicable Plans VIS-2: Degradation and/or Obstruction of a Scenic View VIS-3: Generation of Increased Daytime Glare and/or Nighttime Lighting

Key:

- CVP = Central Valley Project
- DO = Dissolved Oxygen
- SWP = State Water Project