

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>Section 4.2: Delta Hydrology and Water Quality</b>			
<b>4.2.1: Would not adversely alter deliveries of water to other users</b>			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.2: Would not result in significant adverse changes in Delta water quality causing the violation of a water quality standard</b>			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.3: Would not result in changes to Delta water quality that would result in significant adverse effects on beneficial uses</b>			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.4: Diversions of Delta water would not result in a significant reduction of Delta water levels</b>			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.5: Would not result in a cumulatively considerable contribution to significant adverse cumulative effects on deliveries of water to other users, changes in Delta water quality, or change in Delta water levels</b>			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.6s: Would not result in changes in Mokelumne River flow that would significantly affect groundwater recharge</b>			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.2.7s: Would not result in changes in Mokelumne River flow that would significantly increase the potential for flooding</b>			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>Section 4.3: Delta Fisheries and Aquatic Resources</b>			
<b>4.3.6:</b> Operation would not result in changes to Delta hydrologic conditions that affect Delta fish populations or quality and quantity of aquatic habitat within the Sacramento-San Joaquin River system, including the Delta.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.7:</b> Operation of the new screened intake, or changes to diversions at existing intakes, could affect direct entrainment or impingement of fish.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.9:</b> Would not, when combined with other planned projects or projects under construction in the area, cumulatively contribute to substantial adverse impacts to Delta fisheries and aquatic resources.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.10s:</b> Operation would not result in changes to Delta hydrologic or hydrodynamic conditions that affect the growth of algal blooms.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.11s:</b> Operation would not significantly reduce migration habitat for adult fall-run chinook salmon and steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.12s:</b> Operation would not significantly reduce spawning and rearing habitat for fall-run chinook salmon and steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.13s:</b> Operation would not significantly reduce outmigration for juvenile fall-run chinook salmon and steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.3.14s:</b> Operation would not significantly reduce floodplain habitat for native fish species in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.15s:</b> Operation would not significantly reduce flows that support native fish species habitat in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.16s:</b> Operation would not significantly reduce fish habitat in Pardee and Camanche Reservoirs.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.17s:</b> Operation would not significantly affect water temperature for coldwater fish species in Pardee and Camanche Reservoirs.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.18s:</b> Operation would not significantly affect water temperature for migration, spawning and incubation of fall-run chinook salmon in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.19s:</b> Operation would not significantly affect water temperature for rearing, smoltification, and emigration of juvenile fall-run chinook salmon in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.20s:</b> Operation would not significantly affect water temperature for migration, spawning and incubation of steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.3.21s:</b> Operation would not significantly affect water temperature for rearing, smoltification, and emigration of steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.3.22s:</b> Operation would not significantly affect water quality for fall-run chinook salmon and steelhead in the lower Mokelumne River.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.4: Geology, Soils and Seismicity</b>			
<b>4.4.1:</b> Would be designed and engineered in accordance with seismic code requirements. As a result, would not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking or seismic-related ground failure, including liquefaction and landslides.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.4.2:</b> During construction and operations, could result in substantial soil erosion or the loss of topsoil.			
<b>Phase 1 Expansion</b>	Significant	Measures 4.5.1a and 4.5.1b; and 4.6.2a and 4.6.2b to Reduce Soil Erosion and Topsoil Loss Impacts During Construction	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.5.1a (revised to reflect the inclusion of EBMUD as an agency implementing the project)	Less Than Significant
<b>Total</b>	Significant	Measures 4.5.1a, 4.5.1b, 4.6.2a and 4.6.2b (Reduce Soil Erosion and Topsoil Loss Impacts During Construction)	Less Than Significant
<b>4.4.3:</b> Could be located on expansive or corrosive soils or on a geologic unit or soil that is unstable or could become unstable as a result of the Project or construction activities; however, those components would not likely result in onsite or offsite landslides, lateral spreading, subsidence, liquefaction, or collapse, and would not create substantial risks to life or property.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.5.2 (slow and disperse stormwater to reduce landslide risks to structures and people at the Marina Complex).	Less Than Significant
<b>Total</b>	Significant	Measure 4.5.2	Less Than Significant
<b>4.4.4:</b> Would not make a cumulatively considerable contribution to cumulative effects associated with erosion, topsoil loss or increased exposure to seismic or other geohazard risks.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.4.5s:</b> Would not have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater.			
<b>Phase 1 Expansion</b>	Not Applicable		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.5: Local Hydrology, Drainage and Groundwater</b>			
<b>4.5.1:</b> During construction, could violate water quality standards through increased erosion and sedimentation to local waterways, release of fuels or other hazardous materials during construction, or dewatering of excavated areas that could result in substantial water quality degradation.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.5.1a (Prepare and Implement a Stormwater Pollution Prevention Plan that Minimizes the Potential Contamination of Surface Waters (SWPPP)), and Measure 4.5.1b (Complies with Regional Water Quality Control Board Requirements (RWQCB) to Protect Water Quality regarding Dewatered Groundwater Treatment)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.5.1a, 4.5.1b, and 4.13.2 (Enforce Strict Hazardous Materials BMPs).	Less Than Significant
<b>Total</b>	Significant	Measures 4.5.1a, 4.5.1b, and 4.13.2	Less Than Significant
<b>4.5.2:</b> Construction and operation would not deplete local groundwater supplies or interfere with groundwater recharge.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.5.3:</b> Would not substantially alter drainage patterns but reservoir expansion would increase the reservoir shoreline area subject to erosion.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.5.4:</b> Would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff during operation.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.5.2	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.5.1a and 4.5.2	Less Than Significant
<b>Total</b>	Significant	Measure 4.5.1a, 4.5.2 and 4.5.4	Less Than Significant
<b>4.5.5:</b> Would not place structures in the flood zone and the facilities constructed would not impede flood flows.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

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Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.5.6:</b> Would not substantially increase the exposure of people and/or structures to risks associated with inundation by dam or levee failure.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.5.7:</b> Construction and operation would not make a cumulatively considerable contribution to cumulative effects on drainage, flooding, groundwater recharge or water quality degradation in the Project area.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.6: Biological Resources</b>			
<b>4.6.1:</b> Construction would affect the following NCCP habitat types (CDFG sensitive plant communities in parentheses): Natural Seasonal Wetland (i.e., bulrush-cattail series, northern claypan vernal pool, bush seepweed and saltgrass series), Valley/Foothill Riparian (i.e., Fremont cottonwood series and valley oak series), Grassland (i.e., purple needlegrass series) and Valley/Foothill Woodland Forest (i.e., blue oak series).			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.1a: Implement Avoidance and Minimization Measures to Minimize Impacts to Sensitive Plant Communities Measure 4.6.1b: Provide Compensation Through Habitat Creation where Avoidance of Sensitive Plant Communities is not Possible	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.1a and 4.6.1b	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.1a and 4.6.1b	Less Than Significant
<b>4.6.2:</b> Construction could affect potentially jurisdictional wetlands or waters, and streambeds and banks regulated by CDFW.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.2a: Avoid and Minimize the Fill of Wetlands and Other Waters and Measure 4.6.2b: Provide Restoration and Compensation Where Avoidance of Jurisdictional Wetlands and Other Waters is not Possible	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.2a and 4.6.2b	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.2a and 4.6.2b	Less Than Significant
<b>4.6.3:</b> Construction could affect Brewer's dwarf-flax.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.3a: Design Facilities to Avoid Sensitive Plant Populations and Implement Protection Measures During Construction and Measure 4.6.3b: Develop and Implement a Restoration and Mitigation Plan to Provide Compensation for the Loss of Brewer's dwarf-flax	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.3a and 4.6.3b	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.6.4:</b> Construction would result in impacts on California red-legged frog and California tiger salamander, including aquatic breeding habitat and upland aestivation habitat for these species.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.4a: Conduct Surveys and Implement Protective Measures, if needed, to Minimize Potential Effects on California red-legged frog and California tiger salamander and Measure 4.6.4b: Provide Compensation for Permanent and Temporary Impacts on California tiger salamander and California red- legged frog	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.4a and 4.6.4b	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.4a and 4.6.4b	Less Than Significant
<b>4.6.5:</b> Construction would result in direct and indirect impacts on existing populations of and habitat for the western pond turtle.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.5: Conduct Surveys and Implement Protective Measures to Minimize Potential Effects on Western Pond Turtle	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.5	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.5	Less Than Significant
<b>4.6.6:</b> Phase 2 Expansion construction would result in direct and indirect impacts on listed vernal pool fairy shrimp and their habitat, and on the non-listed midvalley fairy shrimp.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Significant	Measures 4.5.1a and 4.5.1b; Measure 4.6.2a and 4.6.2b; and Measure 4.6.6a, which avoids potential fairy shrimp habitat and restricts post-project public access, and adopted Measure 4.6.6b which provides for cyst salvage and the creation and restoration of local vernal pools, or acquisition of credits from local mitigation banks	Less Than Significant
<b>Total</b>	Significant	Measures 4.5.1a and 4.5.1b; Measure 4.6.2a and 4.6.2b; and Measure 4.6.6a, which avoids potential fairy shrimp habitat and restricts post-project public access, and adopted Measure 4.6.6b which provides for cyst salvage and the creation and restoration of local vernal pools, or acquisition of credits from local mitigation banks	Less Than Significant

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<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.6.7:</b> Construction would have temporary and permanent impacts on potential San Joaquin kit fox habitat and permanently reduce potential regional movement opportunities in one location for this species.			
<b>Phase 1 Expansion</b>	Significant / Significant and Unavoidable	Measure 4.6.7a: Implement Protection Measures to Minimize Impacts on San Joaquin Kit Fox Habitat and Potential Regional Movement Opportunities; Measure 4.6.7b: Provide Compensation for Affected Kit Fox Habitat Outside of Dedicated CDFW Conservation Easements; and Measure 4.6.7c: Provide Compensation for Affected Acreage Within Existing Kit Fox Easement	Less than significant for habitat impacts except loss of the potential movement corridor on the western side of the reservoir, which would remain a significant and unavoidable effect.
<b>Phase 2 Expansion</b>	Significant / Less than Significant	Measure 4.6.7a, 4.6.7b and 4.6.7c	Less Than Significant/ Less than Significant. No additional impacts to movement corridor on the western side of the reservoir, which was identified as a significant and unavoidable effect for Phase 1.
<b>Total</b>	Significant / Significant and Unavoidable	Measure 4.6.7a, 4.6.7b and 4.6.7c	Less Than Significant / Significant and Unavoidable
<b>4.6.8:</b> Construction would result in temporary and permanent loss of habitat for burrowing owls.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.8a: Conduct Surveys and Implement Protective Measures	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.8a and 4.6.8b	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.8a and 4.6.8b	Less Than Significant
<b>4.6.9:</b> Construction and operation activities would result in direct and indirect impacts on existing populations of and habitat for the golden eagle, bald eagle, and Swainson's hawk.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.9a: Conduct Surveys and Implement Protective Measures to Minimize Potential Effects on the Golden Eagle, Bald Eagle, and Swainson's Hawk and Measure 4.6.9b: Provide Restoration and Compensation for the Loss of Golden Eagle, Bald Eagle, and Swainson's Hawk Foraging Habitat	Less Than Significant / Beneficial – Bald Eagle
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.9a and 4.6.9b	Less Than Significant / Beneficial – Bald Eagle
<b>Total</b>	Significant	Measure 4.6.9a and 4.6.9b	Less Than Significant / Beneficial – Bald Eagle
<b>4.6.10:</b> Construction and increased reservoir water levels would result in temporary and permanent loss of potential and occupied habitat for Alameda whipsnakes.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.10a: Development and Implementation of An Alameda Whipsnake Protection and Monitoring Plan and Measure 4.6.10b: Provide Compensation for Loss of Upland Scrub Habitat That May Support the Alameda Whipsnake	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.10a and 4.6.10b	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.10a and 4.6.10b	Less Than Significant



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Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.6.11:</b> Construction activities could result in direct and indirect impacts on the valley elderberry longhorn beetle and its habitat.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.11: Avoid, Minimize, and Mitigate Effects on the Valley Elderberry Longhorn Beetle	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.11	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.11	Less Than Significant
<b>4.6.12:</b> Construction activities could affect active breeding bird nest sites could affect migratory birds.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.12a: Conduct Surveys and Implement Protective Measures to Minimize Effects on Breeding and Migratory Birds and Measure 4.6.12c: Conduct Surveys and Implement Protective Measures to Reduce Impacts on Nesting Raptors	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.12a and 4.6.12c	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.12a and 4.6.12c	Less Than Significant
<b>4.6.13:</b> Phase 2 Expansion construction activities could affect designated critical habitat for listed species (vernal pool fairy shrimp and Contra Costa goldfields).			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Significant	Measures 4.6.2a and 4.6.2b; Measures 4.6.6a and 4.6.6b	Less Than Significant
<b>Total</b>	Significant	Measures 4.6.2a and 4.6.2b; Measures 4.6.6a and 4.6.6b	Less Than Significant
<b>4.6.14:</b> Construction activities could affect non-listed special- status reptile species (San Joaquin coachwhip and coast horned lizard).			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.14: Conduct Surveys and Implement Protective Measures to Reduce Impacts on Non-listed Special-Status Reptile Species (San Joaquin Coachwhip and Coast Horned Lizard)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.6.14	Less Than Significant
<b>Total</b>	Significant	Measure 4.6.14	Less Than Significant
<b>4.6.15:</b> Construction activities could affect non-listed special-status mammal species (American badger, special-status bats, and San Joaquin pocket mouse <sup>1</sup> ).			
<b>Phase 1 Expansion</b>	Significant	Measure 4.6.15a: Conduct Pre-Construction Surveys and Implement Measures as Needed to Reduce Impacts on Non-listed Special-Status Mammal Species (American Badger, Special-Status Bats, and San Joaquin Pocket Mouse) and Measure 4.6.15b: Conduct Pre-Construction Surveys and Implement Measures as Needed to Reduce Impacts on Special- Status Bats	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.6.15a and 4.6.15b	Less Than Significant
<b>Total</b>	Significant	Measures 4.6.15a and 4.6.15b	Less Than Significant
<b>4.6.16:</b> Draining the reservoir during Phase 2 Expansion construction could affect Pacific Flyway species, including waterfowl and shorebirds.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

<sup>1</sup> When the Final EIS/EIR was published in 2010, the San Joaquin pocket mouse was identified by CDFW as a California Species of Special Concern. CDFW has since dropped this designation, leaving the mouse with no protective status.

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<b>4.6.17:</b> The Phase 2 Expansion would not result in conflicts with local and regional conservation plans, or local plans or ordinances protecting biological resources.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Significant	Measures 4.6.2a and 4.6.2b and Measures 4.6.6a and 4.6.6b	Less Than Significant
<b>Total</b>	Significant	Measures 4.6.2a and 4.6.2b and Measures 4.6.6a and 4.6.6b	Less Than Significant
<b>4.6.18:</b> Construction would not make a cumulatively considerable contribution to cumulative effects on special- status species and habitats.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.7: Land Use</b>			
<b>4.7.2:</b> Facility siting and operation would not conflict with any applicable land use plans.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.7.3:</b> Construction activities within designated Airport Land Use Compatibility Zones near the Byron Airport could cause potential temporary height impacts by conflicting with FAR Part 77 surfaces during construction.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.7.3 (Byron Airport, FAA Protected Airspace)	Less Than Significant
<b>Total</b>	Significant	Measure 4.7.3	Less Than Significant
<b>4.7.4:</b> Construction activities within the AIA for Byron Airport could cause potential temporary flight hazards through the creation of glare or distracting lights; the generation of dust or smoke, which could impair pilot visibility; or could attract an increased number of birds.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.7.4a: Consult with Contra Costa County Airport Staff to Minimize Light and Glare Impacts to Byron Airport; Measure 4.7.4b: Prohibit Use of Temporary Sediment Ponds and Use Appropriate Seed Mixtures for Revegetation and Sediment/Erosion Control Measures During Construction to Minimize Attraction for Birds; and Measure 4.10.1: Implement BAAQMD Measures to Control Construction-Generated Fugitive Dust Emissions	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.7.4a, 4.7.4b and 4.10.1	Less Than Significant
<b>Total</b>	Significant	Measure 4.7.4a, 4.7.4b and 4.10.1	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>Section 4.8: Agriculture</b>			
<b>4.8.1:</b> Construction would temporarily impact the agricultural use of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.8.1 (maintain agricultural drainages systems, localized dewatering, staging/access via fallow fields/existing access and implement Measure 4.10.1)	Less Than Significant
<b>Total</b>	Significant	Measure 4.8.1 including 4.10.1	Less Than Significant
<b>4.8.2:</b> Would permanently convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural use.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less than Significant
<b>Phase 2 Expansion</b>	Significant / Significant and Unavoidable	Measure 4.8.2a would avoid permanent conversion of Important Farmland to non-agricultural use, resulting in a less-than-significant impact from this component and Measure 4.8.2b would compensate for permanent conversion; however, this impact would remain significant and unavoidable.	Less than Significant associated with the ECCID Intertie Pipeline / Significant and Unavoidable; associated with up to 0.5 acre
<b>Total</b>	Significant and Unavoidable	Measure 4.8.2a would avoid permanent conversion of Important Farmland to non-agricultural use, resulting in a less-than-significant impact from this component and Measure 4.8.2b would compensate for permanent conversion; however, this impact would remain significant and unavoidable.	Significant and Unavoidable
<b>4.8.3:</b> Would not conflict with zoning for agricultural use or a Williamson Act contract.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.8.4:</b> Would involve changes in the environment that, due to their location or nature, could contribute to cumulative impacts from conversion of Important Farmland to nonagricultural uses.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.8.1, 4.8.2a, and 4.8.2b	Less Than Significant
<b>Total</b>	Significant	Measures 4.8.1, 4.8.2a, and 4.8.2b	Less Than Significant
<b>Section 4.9: Transportation and Circulation</b>			
<b>4.9.1:</b> Construction activities would intermittently and temporarily increase traffic congestion due to vehicle trips generated by construction workers and construction vehicles on area roadways.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.9.1a (Construction Traffic Scheduling Off-Perk) and 4.9.1b (Hauling Plan for Concurrent Component Construction Activities)	Less Than Significant
<b>Total</b>	Significant	Measures 4.9.1a and 4.9.1b	Less Than Significant

### SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.9.2:</b> Construction activities would intermittently and temporarily impede access to local streets or adjacent uses, including access for emergency vehicles and could substantially increase traffic hazards due to construction in or adjacent to roads or possible road wear.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.9.2a (Emergency Access), 4.9.2b (Notification to Emergency Service Providers), 4.9.2c (Traffic Controls) and 4.9.2d (Roadway Damage)	Less Than Significant
<b>Total</b>	Significant	Measures 4.9.2a, 4.9.2b, 4.9.2c, and 4.9.2d	Less Than Significant
<b>4.9.3:</b> Traffic associated with operation of facilities, including the expanded recreation facilities, would not exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.9.4:</b> Construction, when combined with construction of other future projects, could contribute to construction- related short-term cumulative impacts to traffic and transportation (traffic congestion, access, and traffic safety).			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.9.4 (Coordination with Local Governments)	Less Than Significant
<b>Total</b>	Significant	Measure 4.9.4	Less Than Significant
<b>Section 4.10: Air Quality</b>			
<b>4.10.1:</b> Construction could generate short-term emissions of criteria air pollutants: ROG, NOx, CO, and PM10 that could contribute to existing nonattainment conditions and further degrade air quality but would not exceed federal general conformity <i>de minimis</i> standards for emissions.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.10.1 (Implement BAAQMD Measures to Control Construction-Generated Fugitive Dust Emissions)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.10.1	Less Than Significant
<b>Total</b>	Significant	Measure 4.10.1	Less Than Significant
<b>4.10.2:</b> Operation would not result in emissions of criteria air pollutants at levels that would substantially contribute to a potential violation of applicable air quality standards or to nonattainment conditions.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.10.3:</b> Construction and/or operation would not expose sensitive receptors to substantial pollutant concentrations.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.10.3 (Tier 4 Engine/Diesel Particulate Filters)	Less Than Significant
<b>Total</b>	Significant	Measure 4.10.3	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.10.4:</b> Operation would not create objectionable odors affecting a substantial number of people.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.10.5:</b> Construction and operation would not result in a cumulatively considerable increase in greenhouse gas emissions.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.10.6:</b> Construction and operation could result in cumulatively considerable increases of criteria pollutant emissions.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.10.1	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.10.1	Less Than Significant
<b>Total</b>	Significant	Measure 4.10.1	Less Than Significant
<b>Section 4.11: Noise</b>			
<b>4.11.1:</b> Construction of facilities could generate noise levels that exceed the Contra Costa County or Alameda County noise standards at nearby sensitive receptors if construction activities are carried out during noise-sensitive hours, causing sleep disturbance and/or annoyance.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.11.1a (Limit Construction Activities During Noise- Sensitive Hours to Minimize Noise Impacts); Measure 4.11.1b (Post Construction-Related Information and Contact Information at all Construction Sites/Entrances to Construction Sites for the Public); Measure 4.11.1c (Implement Measures to Control Generation of Construction Noise); Measure 4.11.1d (Prohibit the Use of Amplified Noise Sources to Minimize Noise Impacts); and Measure 4.11.1e (Implement "Quiet" Pile-Driving Technology to Minimize Pile Driving Noise Impacts)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.11.1a, 4.11.1b, 4.11.1c, and 4.11.1d	Less Than Significant
<b>Total</b>	Significant	Measure 4.11.1a, 4.11.1b, 4.11.1c, 4.11.1d, and 4.11.1e	Less Than Significant
<b>4.11.2:</b> Operation would generate traffic, stationary source, and area source noise similar to existing noise associated with operation of Los Vaqueros Reservoir system and would not exceed County noise requirements.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.11.2 (Noise control for Variable Frequency Drives)	Less Than Significant
<b>Total</b>	Significant	Measure 4.11.2	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.11.3:</b> Construction would not expose persons to or generate excessive ground-borne vibration or ground-borne noise levels.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.11.4:</b> Would not make a cumulatively considerable contribution to noise levels during either construction or operation.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.12: Utilities and Public Service Systems</b>			
<b>4.12.1:</b> Construction or operation could temporarily disrupt utilities and public service systems such that a public health hazard could be created or an extended service disruption could result.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.9.2a (Emergency Access); 4.9.2b (Notification to Emergency Service Providers); Measure 4.12.1a (Minimize Temporary Disruption of Utilities and Public Service Systems); and Measure 4.13.3 (BMOs to Minimize Impacts from Accidental Fires)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.9.2a, 4.9.2b, 4.12.1a, and 4.13.3	Less Than Significant
<b>Total</b>	Significant	Measure 4.9.2a, 4.9.2b, 4.12.1a, and 4.13.3	Less Than Significant
<b>4.12.2:</b> Would not require or result in construction of new or expanded utility infrastructure or public service facilities that would result in substantial adverse physical impacts.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.12.3:</b> Construction could increase solid waste generation such that the capacity of local landfills would be exceeded or would not comply with state regulations related to solid waste.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.12.3 (Require the Contractor to Implement Solid Waste Reduction and Debris Recovery Practices)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.12.3	Less Than Significant
<b>Total</b>	Significant	Measure 4.12.3	Less Than Significant
<b>4.12.4:</b> Construction could make a cumulatively considerable contribution to cumulative effects on public services and utilities, or local landfill capacity.			
<b>Phase 1 Expansion</b>	Significant	Measures 4.12.1a and 4.12.3	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.9.2a, 4.9.2b, 4.12.1a, 4.12.3, 4.13.3, and 4.12.1b	Less Than Significant
<b>Total</b>	Significant	Measures 4.9.2a, 4.9.2b, 4.12.1a, 4.12.3, 4.13.3, and 4.12.1b	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.12.5s:</b> Would not result in the wasteful, inefficient, or unnecessary consumption of energy or require the construction of additional energy infrastructure facilities that would have significant environmental effects.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.13: Hazardous Materials / Public Health</b>			
<b>4.13.1:</b> Construction would disturb subsurface soils and groundwater; if hazardous substances are present in the disturbed areas, construction workers and the public could be exposed to these substances.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.13.2:</b> Construction and operation could, through routine transport, use or disposal, accidentally release hazardous materials, thereby exposing construction workers, project personnel, and the public to hazardous materials, or accidentally releasing hazardous materials into the soil, groundwater, and/or a nearby surface water body.			
<b>Phase 1 Expansion</b>	Significant	Measures 4.5.1a, 4.5.1, and 4.13.2	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measures 4.5.1a, 4.5.1, and 4.13.2	Less Than Significant
<b>Total</b>	Significant	Measures 4.5.1a, 4.5.1, and 4.13.2	Less Than Significant
<b>4.13.3:</b> Improper handling or use of flammable or combustible materials such as internal combustion equipment could result in wildland fires, exposing people or structures to a significant risk of loss, injury, or death.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.13.3 (Require Contractor to Enforce Strict Onsite BMPs to Minimize the Potential for Accidental Fires)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.13.3	Less Than Significant
<b>Total</b>	Significant	Measure 4.13.3	Less Than Significant
<b>4.13.5:</b> Would not contribute to cumulative impacts associated with release of hazardous materials or other hazards.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.13.6s:</b> Would emit hazardous emissions or involve the handling of hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school.			
<b>Phase 1 Expansion</b>	No Impact		
<b>Phase 2 Expansion</b>	Significant	Measure 4.13.2	Less Than Significant
<b>Total</b>	Significant	Measure 4.13.2	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>Section 4.14: Visual/Aesthetic Resources</b>			
<b>4.14.1:</b> Would not have a substantial, demonstrable negative aesthetic effect on a scenic vista or from a county- designated scenic highway or route.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.14.2:</b> Would not substantially degrade the existing visual character or quality of the site and its surroundings.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.14.2a (Develop and Implement a Site Restoration Plan for Borrow Areas)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.14.2a	Less Than Significant
<b>Total</b>	Significant	Measure 4.14.2a	Less Than Significant
<b>4.14.3:</b> Would not create a new source of substantial light but Alternatives 1, 2, and 3 could create a new source of substantial glare that could adversely affect views in the area.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.14.4:</b> Would not make a cumulatively considerable contribution to adverse effects on visual/aesthetic resources in the Project area or broader region.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.15: Recreation</b>			
<b>4.15.1:</b> Construction would result in a short-term reduction of recreational opportunities in the Project area due to construction activities outside the watershed and closure of the watershed to the public during the construction period, but would enhance recreational opportunities in the long-term.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.15.1a (Prepare and Implement a Public Outreach Program to Inform Current and Potential Recreational Users of Temporary Closures), and Measure 4.15.1c (Replace Recreational Facilities Displaced By Reservoir Expansion Within One Year of Construction Completion)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.15.1a, 4.15.1b (Outreach regarding Byron Vernal Pools Regional Preserve), 4.15.1c, 4.15.1d (Coordination regarding Delta de Anza Trail and/or Marsh Creek Trail), 4.10.1, 4.11.1a, 4.11.1b, 4.11.1c, 4.11.1d, and 4.11.1e	Less Than Significant
<b>Total</b>	Significant	Measure 4.15.1a, 4.15.1b, 4.15.1c, 4.15.1d, 4.10.1, 4.11.1a, 4.11.1b, 4.11.1c, 4.11.1d, and 4.11.1e	Less Than Significant



**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.15.2:</b> Would not 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.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.15.3:</b> No other reasonably foreseeable future projects would also reduce recreational opportunities in the Project area, similar to those opportunities affected by the Project, or increase the use of existing neighborhood and regional parks or other recreational facilities; therefore, there does not appear to be the potential for the Project to contribute to a cumulative effect on recreation facilities, opportunities or experience.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.16: Cultural and Paleontological Resources</b>			
<b>4.16.1:</b> Construction and management of components would cause a substantial adverse change in the significance of a historical and/or unique archaeological resource as defined in Section 15064.5 or historic property or historic district, as defined in Section 106 of the NHPA (36 CFR 800), or in a previously undiscovered cultural resource.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.16.1a (If Feasible, Avoid Impacts to Known Cultural Resources through Project Design Modification), Measure 4.16.1b (Protect Cultural Resources In Place, if feasible; Implement Data Recovery Where Resources Cannot Be Protected In Place), Measure 4.16.1c (Conduct Subsurface Investigations Prior to Ground Disturbing Activities), Measure 4.16.1d (Restrict Ground-Disturbing Activities During Construction and Implement Protection Measures), Measure 4.16.1e (Provide Training For All Construction Personnel Regarding Cultural Resources and Relevant Regulations and Procedures), Measure 4.16.1f (Stop Work If Previously Undiscovered Cultural Resources are Discovered During Ground-Disturbing Activities), Measure 4.16.1g (Update the Cultural Resources Management Plan), Measure 4.16.1h (Prepare a Comprehensive Study of the Prehistory and History of CCWD), and Measure 4.16.1i (In the Event of Inadvertent Archaeological or Burial Discovery within a State Right-of-Way, Contact Caltrans' Office of Cultural Resources Studies, District 4, Oakland, CA)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h and 4.16.1i	Less Than Significant
<b>Total</b>	Significant	Measure 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h and 4.16.1i	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

<b>Resource Topic/Environmental Impact</b>	<b>Level of Significance before Mitigation</b>	<b>Mitigation Measure</b>	<b>Level of Significance After Mitigation</b>
<b>4.16.2:</b> Ground-disturbing activities could encounter and destroy paleontological resources in certain geologic formations underlying the Project area.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.16.2a (Construction-Related Earth-Moving Activities in Areas Sensitive for Paleontological Resources Shall be Monitored by a Trained Paleontologist) and Measure 4.16.2b (Provide Training for Construction Personnel Involved with Earth-Moving Activities in Areas with Low to Moderate Sensitivities Regarding Fossils and Notification Procedures)	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.16.2a and 4.16.2b	Less Than Significant
<b>Total</b>	Significant	Measure 4.16.2a and 4.16.2b	Less Than Significant
<b>4.16.3:</b> Construction and management of components could disturb human remains, including those interred outside of formal cemeteries.			
<b>Phase 1 Expansion</b>	Significant	Measure 4.16.3: Stop Work If Human Remains are Discovered During Construction	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.16.3, 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h	Less Than Significant
<b>Total</b>	Significant	Measure 4.16.3, 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h	Less Than Significant
<b>4.16.4:</b> Construction and management of components would contribute to adverse cumulative impacts to cultural and/or paleontological resources.			
<b>Phase 1 Expansion</b>	Significant	Measures 4.16.2a and 4.16.2b	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h, 4.16.1i, 4.16.3, 4.16.2a and 4.16.2b	Less Than Significant
<b>Total</b>	Significant	Measure 4.16.1a, 4.16.1b, 4.16.1c, 4.16.1d, 4.16.1e, 4.16.1f, 4.16.1g, 4.16.1h, 4.16.1i, 4.16.3, 4.16.2a and 4.16.2b	Less Than Significant
<b>Section 4.17: Socioeconomic Effects</b>			
<b>4.17.1:</b> Construction could temporarily generate new income and local employment that could benefit Contra Costa County's economy.			
<b>Phase 1 Expansion</b>	Beneficial	None Required	Beneficial
<b>Phase 2 Expansion</b>	Beneficial	None Required	Beneficial
<b>Total</b>	Beneficial	None Required	Beneficial
<b>4.17.2:</b> Loss of agricultural land use associated with construction and development could affect Contra Costa County and Alameda County's economy.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant

**SUMMARY OF IMPACTS AND MITIGATION MEASURES**

Resource Topic/Environmental Impact	Level of Significance before Mitigation	Mitigation Measure	Level of Significance After Mitigation
<b>4.17.3:</b> Short-term loss of recreation income associated with construction could affect Contra Costa County's economy.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.17.4</b> Construction, when combined with construction of other future projects, could have a potentially beneficial effect on income and local employment.			
<b>Phase 1 Expansion</b>	Beneficial	None Required	Beneficial
<b>Phase 2 Expansion</b>	Beneficial	None Required	Beneficial
<b>Total</b>	Beneficial	None Required	Beneficial
<b>4.17.5:</b> Construction, when combined with construction of other future projects, could have a potential cumulative effect on Contra Costa County's economy as a result of temporary loss of agricultural land uses.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>4.17.6</b> Construction, when combined with construction of other future projects, could have a potential cumulative effect on Contra Costa County's economy as a result of temporary recreational impacts.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant
<b>Section 4.18: Environmental Justice</b>			
<b>4.18.1:</b> Construction and operation would result in air quality, noise, and/or other environmental impacts related to traffic and other construction activities that would not disproportionately affect nearby minority and/or low-income communities.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Significant	Measure 4.9.1a and 4.10.3	Less Than Significant
<b>Total</b>	Significant	Measure 4.9.1a and 4.10.3	Less Than Significant
<b>4.18.3:</b> Construction and operation when combined with construction of other past, present, and probable future projects, would result in air quality, noise, and/or other environmental impacts related to traffic and other construction activities that would not disproportionately affect nearby minority and/or low-income communities.			
<b>Phase 1 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Phase 2 Expansion</b>	Less Than Significant	None Required	Less Than Significant
<b>Total</b>	Less Than Significant	None Required	Less Than Significant