Feasibility and Implementation Risk Tab

Attachment 5: Summary of Environmental Impacts and Tribal Consultation

Summarize the project's impacts on environmental or cultural resources and how the project will mitigate or minimize impacts to those resources, or identify where in the CEQA document this information can be found. If any environmental or cultural impacts will not be fully mitigated, explain. See regulations section 6003(a)(1)(T).

If applicable, identify whether Tribal consultation has been initiated for the project. If it has, provide supporting documentation, or identify the location in the CEQA document. If consultation has not been initiated, state whether consultation is expected and when consultation is expected to be initiated. See regulations section 6003(a)(1)(U).

WSIP Application Instructions, March 2017

Response

This attachment describes the environmental (**see Section A.5 on Page 2**) and cultural impacts (**see Tribal Consultation on Page 34**) associated with Sites Project, as well as the initiated tribal consultations with tribes affected by the implementation of Sites Reservoir and its associated facilities.

Table of Contents

Tables

Acronyms and Abbreviations

BMP	best management practices
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CNPS	California Native Plant Society
CO	carbon monoxide
CRHR	California Register of Historical Resources
CVP	Central Valley Project
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ESA	Environmental Site Assessment
GCID	Glenn-Colusa Irrigation District
GHG	greenhouse gas
M&I	municipal and industrial
NAHC	California Native American Heritage Commission
NEPA	National Environmental Policy Act
NO_X	nitrogen oxide
NRHP	National Register of Historic Places
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter with an aerodynamic diameter of 2.5 microns or less
PRC	Public Resources Code
ROG	reactive organic gas
RWQCB	Regional Water Quality Control Board
SO_X	sulfur oxide
SWP	State Water Project
TRR	Terminal Regulating Reservoir
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
WEAP	Worker Environmental Awareness Program

Summary of Environmental Impacts and Tribal Consultation

(Relevant Excerpts from the Executive Summary of the Draft Environmental Impact Report [EIR]/Environmental Impact Statement [EIS])

Environmental Commitments Included as Part of the Project

The Authority and Reclamation would incorporate a number of standardized environmental measures, plans, protocols, and best management practices as environmental commitments as part of the Project. The Authority and Reclamation would also coordinate planning, engineering, design and construction, operation, and maintenance phases of the Project with applicable resource agencies. The following environmental commitments would be incorporated for any Project-related construction as well as operations/maintenance (as appropriate) activities:

- Worker Environmental Awareness Program (WEAP)
- Environmental Site Assessment (ESA)
- Construction Management Procedures
  - Fire Safety and Suppression
  - Construction Equipment, Truck, and Traffic Management
- Stormwater Pollution Prevention Plan, Erosion Control, Management, and Dewatering
  - Compliance with the Requirements of Regional Water Quality Control Board (RWQCB) Order No. 5-00-175
  - Spill Prevention and Hazardous Materials Management
- Mosquito and Vector Control
- Groundwater/Dewatering Water Supply
- Visual/Aesthetic Design, Construction, and Operation Practices
- Emergency Action Plan

Summary of Potential Environmental Effects and Mitigation Commitments

The Project would affect environmental resources in all three study areas to varying degrees, with most impacts potentially occurring in the Primary Study Area. Anticipated impacts would vary from construction-related effects that would be less than significant or would be reduced to less-than-significant levels through mitigation to those that would remain significant and unavoidable despite proposed mitigation measures. In addition, many effects of the Project would be beneficial, particularly related to improved water supply reliability in drier years and potential ecosystem benefits.

Table 1 (provided at the end of this attachment) summarizes the impacts by environmental resource, the level of significance of the impact prior to mitigation, the proposed mitigation measure (as applicable), and the level of significance of the impact after mitigation. The proposed Project Mitigation Monitoring Plan is included as Appendix 1A of the Draft EIR/EIS.

Identified Significant and Unavoidable Impacts

As shown in Table 1, the proposed Project would likely result in the following potentially significant and unavoidable direct and indirect impacts.

Terrestrial Biological Resources (Golden Eagle)

Construction and filling of the proposed Sites Reservoir Inundation Area, as well as construction of the proposed Recreation Areas, would result in the permanent loss of foraging and nesting habitat for the golden eagle. Although implementation of compensatory mitigation including land preservation and/or acquisition is proposed, these measures would not reduce this loss of habitat to less-than-significant levels.

Cultural Resources (Historical and Tribal Resources, Human Remains)

Construction of the proposed Project facilities would affect built historical and tribal resources, as well as human remains associated with a designated cemetery and adjacent areas. If these resources and/or areas are determined to be eligible for listing in the California Register of Historical Resources or National Register of Historic Places, mitigation measures would not reduce the impact to less-than-significant levels.

Land Use (Community of Sites, Existing Land Uses, Zoning, and Designations)

Construction and filling of the proposed Sites Reservoir Inundation Area would result in the physical division of the community of Sites, resulting in a significant and unavoidable impact. Construction of the proposed Project facilities would result in conflicts or incompatibilities with existing and designated land uses and existing zoning for agricultural, as well as the conversion of Prime Farmland, Unique Farmland or Farmland of Statewide Importance to non-agricultural use, resulting in significant and unavoidable impacts. Implementation of mitigation measures would not reduce these impacts to less-than-significant levels.

Air Quality (PM_{10}, ROG, and NO_X)

Construction activities associated with all proposed Primary Study Area Project facilities, as well as activities (such as use of roads, recreation, electricity generation and consumption, and sediment dredging) associated with the long-term operation and maintenance of the Project, would result in significant and unavoidable emissions of particulate matter less than 10 microns in diameter (PM_{10}), reactive organic gas (ROG), and nitrogen oxide (NO_X).

Climate Change and Greenhouse Gas Emissions

The greenhouse gas (GHG) emissions estimated for construction, operation, and maintenance of the Project when compared to applicable county standards would contribute to a cumulatively considerable effect that would be significant and unavoidable.

Visual Resources (Terminal Regulating Reservoir)

The proposed Terminal Regulating Reservoir (TRR) and associated TRR facilities would be visually dominant and in high contrast to the surrounding landscape, resulting in a significant and unavoidable impact on a scenic vista.

Growth-inducing Impacts

Implementation of the Project would improve water supply reliability for agricultural, urban, and environmental uses; provide more options for water management; increase recreational opportunities; and increase temporary and permanent employment opportunities. These Project-related changes would not be expected to result in growth-inducing effects as described below.

Improved Water Supply Reliability for Urban, Agricultural, and Refuge Uses

The expected increase in water deliveries in Dry and Critical years (to primarily State Water Project (SWP) municipal and industrial water users) associated with Project implementation would be anticipated to result in the decreased need for water transfers and/or decreased groundwater pumping in dryer years. Such dry year actions are generally identified in Urban Water Management Plans and would be expected to be required relatively less often with the implementation of the Project. Given long-term average water supplies (including normal and wetter years) are not projected to increase as part of Project implementation, increased dry year water supply reliability is not expected to be growth inducing.

The expected increase in water deliveries to agricultural water users in the Primary and Extended Study Areas in Dry and Critical years is anticipated to decrease the need for water transfers and groundwater pumping and associated land idling. Improved dry year water supply reliability is not expected to be growth inducing, and would not promote conversion of agricultural lands to urban uses.

Refuge water supplies would be similar to the Existing Conditions/No Project/No Action Condition, with the source potentially changing to some degree to be provided by the Project and to a lesser degree through water transfers. Regardless, such changes would not result in growth inducement.

Increased Temporary and Permanent Employment Opportunities

The expected magnitude of Project-related increased employment opportunities in the agricultural sector would be less than 1 percent, when compared to the regional economy of the Extended Study Area, and is therefore not anticipated to result in growth-inducing impacts. Although the expected increased water supply deliveries could result in increased employment and other economic benefits, the effects on housing and population are expected to be minor in the Extended Study Area, when compared to the total housing and population.

Project construction and operation would be expected to result in a minor increase in jobs and population in the Primary Study Area, which could be accommodated within available housing units. An adequate housing supply exists to accommodate the change in population; thus, this expected increase associated with Project implementation is not anticipated to be growth inducing.

Improved Recreational Opportunities

Expected Project-related increased recreation expenditures would represent less than 0.2 percent of total industrial expenditures in the Primary Study Area and are, therefore, not anticipated to increase growth within the entire Primary Study Area.

Cumulative Impacts

The California Code of Regulations' Guidelines for the Implementation of the California Environmental Quality Act (CEQA Guidelines) and federal National Environmental Policy Act (NEPA) regulations require that the cumulative impacts of a proposed project be addressed in an Environmental Impact

Report/Environmental Impact Statement (EIR/EIS). Cumulative impacts are impacts on the environment that result from the incremental impacts of a proposed action when added to other past, present, and reasonably foreseeable future actions.

The cumulative impact assessment for the Project considered projects and programs identified under Existing Conditions (which includes the current effects of past projects) and reasonably foreseeable and probable future projects. The criterion for considering whether a project was reasonably foreseeable and probable in this EIR/EIS was whether the project had been defined in adequate detail, either through the completion of publicly available preliminary evaluations, feasibility studies, or draft environmental and engineering documents, to estimate potential impacts.

Projects considered in the cumulative impacts analysis included 7 multi-region projects and actions; 7 water supply, water quality, and hydropower projects and actions in the vicinity of the proposed Project facilities and/or potentially affected by Central Valley Project (CVP) and SWP operations; and 5 ecosystem improvement projects and actions in the vicinity of the proposed Project facilities and/or potentially affected by CVP and SWP operations (refer to Chapter 35 Cumulative Impacts in the Draft EIR/EIS for the names and descriptions of each of project considered).

Implementation of the Project would not result in the cumulatively considerable incremental contribution to an overall significant cumulative adverse effects.

Table 1. Summary of Environmental Effects by Resource

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
6. Surface Water Resources							
Impact Water Supply-1: A Substantial Decrease in Average Annual CVP or SWP Deliveries Compared to Deliveries Associated with the Existing Conditions/No Project/No Action Condition							
Extended, Secondary, and Primary Study Areas							
CVP Contract Deliveries							
Annual Long-term Averages	NI	NI	NI	NI	NI	N/A	N/A
Annual Dry- and Critical-year Averages	NI	NI	NI	Beneficial	NI	N/A	N/A
SWP Contract Deliveries							
Annual Long-term Averages	NI	NI	NI	NI	NI	N/A	N/A
Annual Dry- and Critical-years Averages	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
CVP/SWP Operational Flexibility	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
7. Surface Water Quality							
Impact SW Qual-1: A Violation of any Water Quality Standard, Waste Discharge Requirement, or Temperature Criteria; a Change in Surface Water Quality Resulting in Adverse Effects to Designated Beneficial Uses of Surface Water; or Otherwise Substantially Degrade Surface Water Quality							
Extended Study Area	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Trinity River Downstream of Trinity Lake and Lewiston Reservoir, Klamath River Downstream from Trinity River, Clear Creek Downstream of Whiskeytown Lake, Lake Oroville, Thermalito Complex, Feather River, Folsom Lake, Lake Natoma, and American River, Shasta Lake and Sacramento River from Shasta Lake and Keswick Reservoir to Freeport							
Water Temperatures	LS	LS	LS	LS	LS	N/A	N/A
Mercury, Nutrients, Salinity, and Dissolved Oxygen	NI	NI	NI	NI	NI	N/A	N/A
Yolo Bypass	LS	LS	LS	LS	LS	N/A	N/A
Sacramento-San Joaquin Delta, Suisun Bay, and Suisun Marsh							
Salinity and Dissolved Oxygen Concentrations	LS	LS	LS	LS	LS	N/A	N/A
Mercury and Selenium	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Construction within Natural Surface Waters (Golden Gate and Sites Dams and Delevan Intake/Discharge Facility)	LS	LS	LS	LS	LS	N/A	N/A
Construction within Man-made Surface Waters (Funks/Holthouse Reservoir and GCID Canal)	LS	LS	LS	LS	LS	N/A	N/A
Construction on Currently Dry Land and Other General Construction Activities	LS	LS	LS	LS	LS	N/A	N/A
Operations of Facilities with Open Water Surfaces (Sites, Holthouse, and Terminal Regulating Reservoirs and the GCID and Tehama-Colusa)	LS	LS	LS	LS	LS	N/A	N/A
Operations of Delevan Intake/Discharge Facility	LS	LS	LS	LS	LS	N/A	N/A
Operations of Facilities on Dry Land	LS	LS	LS	LS	LS	N/A	N/A
8. Fluvial Geomorphology and Riparian Habitat							
Impact Geom-1: Substantial Alteration of Natural River Geomorphic Processes							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Geom-2: Substantial Alteration of Natural River Meandering, Bank Erosion, and Deposition, and Substantial Alteration of Riparian Vegetation and Habitat Complexity							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Impact Geom-3: Substantial Alteration of the Amount of Large Woody Debris, Boulders, Shaded Riverine Aquatic Habitat, or Spawning Gravel in Rivers, with Effects on Fish Habitat							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
9. Flood Control							
Impact Flood-1: Substantially Alter the Existing Drainage Pattern of the Site or Project Area, Including through the Alteration of the Course of a Stream or River, or Substantially Increase the Rate or Amount of Surface Runoff in a Manner which Would Result in Flooding On- or Off-site							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Flood-2: Place within a 100-year Flood Hazard Area Structures which Could Impede or Redirect Flood Flows							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Recreation Areas	NI	NI	NI	NI	NI	N/A	N/A
Sites Pumping/Generating Plant, Tunnel, Sites Reservoir Inlet/Outlet Structure, Sites Electrical Switchyard, Field Office Maintenance Yard, Road Relocations and South Bridge, GCID Canal Facilities Modifications, Holthouse Reservoir Complex, Holthouse Reservoir Electrical Switchyard, TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR, TRR Pipeline, TRR Pipeline Road, Sites/Delevan Overhead Power Line, Delevan Pipeline Electrical Switchyard, Delevan Pipeline, Delevan Pipeline Intake/Discharge Facility	LS	LS	LS	LS	LS	N/A	N/A
Project Buffer	NI	NI	NI	NI	NI	N/A	N/A
Impact Flood-3: Expose People or Structures to a Significant Risk of Loss, Injury, or Death from Flooding, Including Flooding as a Result of the Failure of a Levee or Dam							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Delevan Pipeline Electrical Switchyard, Holthouse Reservoir Complex, Holthouse Reservoir Electrical Switchyard, TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Discharge/Intake Facilities	LS	LS	LS	LS	LS	N/A	N/A
Sites Pumping/Generating Plant, Tunnel, Sites Reservoir Inlet/Outlet Structure, Sites Electrical Switchyard, Field Office Maintenance Yard, Recreation Areas, Road Relocations and South Bridge, GCID Canal Facilities Modifications, Sites/Delevan Overhead Power Line, Delevan Pipeline, Project Buffer	NI	NI	NI	NI	NI	N/A	N/A
10. Groundwater Resources							
Impact GW Res-1: Substantial Depletion of Groundwater Supplies or Substantial Interference with Groundwater Recharge Resulting in a Net Deficit in Aquifer Volume or a Lowering of the Local Groundwater Table Level, Causing Effects on Existing Land Uses or Planned Uses							
Extended Study Area	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Secondary Study Area							
Reservoir Storage/Flow Regime Changes/Surface Water Use	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Recreation Areas, Project Buffer, GCID Canal Facilities Modifications	NI	NI	NI	NI	NI	N/A	N/A
Sites Reservoir Inundation Area, Sites Reservoir Dams, Road Relocations and South Bridge, Holthouse Reservoir Complex, TRR Electrical Switchyard, GCID Canal Connection to the TRR,	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
TRR Pipeline, TRR Pipeline Road; Sites Pumping/Generating Plant, Sites Electrical Switchyard, Tunnel, Sites Reservoir Inlet/Outlet Structure, Field Office Maintenance Yard, Holthouse Reservoir Electrical Switchyard, TRR, TRR Pumping/Generating Plant, Delevan Pipeline, Delevan Pipeline Electrical Switchyard, Sites/Delevan Overhead Powerline, Delevan Pipeline Discharge/Intake Facility							
Impact GW Res-2: Increases in Groundwater Levels Resulting in Adverse Effects to Environmental Conditions and/or Existing Land Uses or Planned Uses							
Extended Study Area	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Secondary Study Area							
Reservoir Storage/Flow Regime Changes/Surface Water Use	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Delevan Pipeline Discharge/Intake Facility, Holthouse Reservoir Electrical Switchyard, Project Buffer, Holthouse Reservoir Complex. TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Intake/Discharge Facilities, TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR, Delevan Pipeline, Delevan Pipeline Electrical Switchyard, Sites/Delevan Overhead Power Line	LS	LS	LS	LS	LS	N/A	N/A
Recreation Areas, Road Relocations and South Bridge, Sites Pumping/Generating Plant, GCID Canal Facilities Modifications	NI	NI	NI	NI	NI	N/A	N/A
11. Groundwater Quality							
Impact GW Qual-1: A Violation of any Water Quality Standards or Waste Discharge Requirements, a Change in Groundwater Quality Resulting in Adverse Effects to Designated Beneficial Uses of Groundwater, or Otherwise Substantially Degrade Groundwater Quality							
Extended Study Area							
Groundwater Use- Construction, San Luis Reservoir	NI	NI	NI	NI	NI	N/A	N/A
Level 4 Wildlife Refuge Water Use	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Secondary Study Area							
Changes in Groundwater Flow Directions	LS	LS	LS	LS	LS	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Hazardous Materials	NI	NI	LS	LS	LS	N/A	N/A
Primary Study Area							
Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard, Sites Pumping/Generating Plant, Sites Electrical Switchyard, Tunnel from Sites Pumping/Generating Plant to Sites Reservoir Inlet/Outlet Structure, Sites Reservoir Inlet/Outlet Structure, and Field Office Maintenance Yard, Recreation Areas, Glenn Colusa Irrigation District Canal Facilities Modifications, Sites Reservoir Dams, Sites Reservoir Inundation Area, Project Buffer	LS	LS	LS	LS	LS	N/A	N/A
Road Relocations and South Bridge, Terminal Regulating Reservoir, Terminal Regulating Reservoir Pipeline, Terminal Regulating Reservoir Pipeline Road, Terminal Regulating Reservoir Pumping/Generating Plant, Terminal Regulating Reservoir Electrical Switchyard, and Glenn Colusa Irrigation District Canal Connection to the Terminal Regulating Reservoir, Sites/Delevan Overhead Power Line, Delevan Pipeline and Delevan Pipeline Electrical Switchyard, Delevan Pipeline Intake Facilities	NI	NI	NI	NI	NI	N/A	N/A
12. Aquatic Biological Resources							
Impact Fish-1: A Substantial Adverse Effect (Either Directly, through Habitat Modifications, by Interfering with the Movement of Native Fish Species, or by Impeding the Use of Native Fish Nursery/Rearing Sites) on Any Fish Species of Management Concern, Including Species Identified as a Candidate, Sensitive, or Special-status Species in Local or Regional Plans, Policies, or Regulations, or by CDFG, NMFS, or USFWS							
Extended and Secondary Study Area							
Wildlife Refuges-Refuge Water Supply	NI	NI	NI	NI	NI	N/A	N/A
Reservoir Coldwater Fish Species, Reservoir Warmwater Fish Species, Southern	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Oregon/Northern California Coho Salmon; Upper Klamath-Trinity River Fall-Run and Spring-Run Chinook Salmon; and Klamath Mountains Province Steelhead; Sacramento River Winter-Run Chinook Salmon, Central Valley Fall-run and Late Fall-Run Chinook Salmon, Central Valley Steelhead, Green Sturgeon, White Sturgeon, Pacific Lamprey, and Striped Bass, Delta Smelt and Longfin Smelt,. River Lamprey; Hardhead; American Shad; Sacramento Splittail; and Largemouth Bass, Southern Resident Killer Whale							
Sacramento River Winter-run Chinook Salmon, Spring-run Chinook Salmon	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Sites Reservoir Inlet/Outlet Structure. Sites Pumping/Generating Plant, Holthouse Reservoir Complex	S	S	S	S	S	**Fish-1a:** Implement Habitat Restoration Actions – Stone Corral and Funks creeks	LS
Road Relocations and South Bridge, TRR to Funks Creek Pipeline, Delevan Pipeline	LS	LS	LS	LS	LS	N/A	N/A
Delevan Pipeline Intake/Discharge Facility	S	S	S	S	S	**Fish-1b:** Implement Habitat Restoration Actions – Sacramento River **Fish-1c:** Perform In-water Pile Driving July through September during Daylight Hours – Sacramento River. **Fish-1d:** Design Fish Screen in Compliance with NMFS and CDFW Criteria – Sacramento River. **Fish-1e:** Prepare and Implement a Fish Salvage and Rescue Plan – Sacramento River	LS
13. Botanical Resources							
Impact Bot-1: A Substantial Adverse Effect, Including Conversion to Non-native Vegetation, on any Riparian Habitat or Other Sensitive Natural Community Identified in Local or Regional Plans, Policies, Regulations, or by CDFW or USFWS, or any Native Plant Community Known to be Rare, Unusual, or Becoming Uncommon in the Biogeographic Region of the Project							
Extended Study Area							
Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
San Luis Reservoir	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville; Folsom Lake	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Trinity River, Klamath River downstream of Trinity River, Spring Creek, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Lake Natoma, Thermalito Complex, Clear Creek, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Sacramento River, Sacramento-San Joaquin Delta, Suisun Bay, Feather River and American River, Sutter Bypass and Yolo Bypass	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams							
Annual Grassland Valley Edges; Salt Lake Wetlands, Construction Staging Area; Blue Oak Woodland; Valley Oak Woodland; Riparian Vegetation	S	S	S	S	S	**Bot-1a:** Implement Compensatory Mitigation Measures for Vegetation Community Impacts in Coordination with USFWS, CDFW, CNPS, and USACE	LS
Valley Floor; Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
Recreation Areas							
Annual Grassland; Blue Oak Woodland	S	S	S	S	S	**Bot-1a**	LS

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Chamise; Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
Road Relocations and South Bridge							
Annual Grassland; Blue Oak Woodland; Riparian Vegetation	S	S	S	S	S	Bot-1a	LS
Chamise; Mixed Chaparral; Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Sites Reservoir Inlet/Outlet Structure, and Field Office Maintenance Yard							
Annual Grassland; Riparian Vegetation; Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard							
Annual Grassland, Alkaline Wetland, Riparian Vegetation	S	S	S	S	S	**Bot-1a; Bot-1b:** Conduct Groundwater Hydrological Studies	LS
Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
GCID Canal Facilities Modifications	LS	LS	LS	LS	LS	N/A	N/A
TRR, TRR Pimping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR	NI	NI	NI	NI	NI	N/A	N/A
Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, and Delevan Pipeline Electrical Switchyard							
Alkaline Wetland; Other Land Cover	LS	LS	LS	LS	LS	N/A	N/A
Freshwater Emergent Marsh	S	S	S	S	S	**Bot-1a**	LS
Sites/Delevan Transmission Line							
Annual Grassland	LS	LS	LS	LS	LS	N/A	N/A
Riparian Veg	S	S	S	S	S	**Bot-1a**	LS
Delevan Pipeline Intake/Discharge Facilities							
Riparian Scrub	LS	LS	LS	LS	LS	N/A	N/A
Fremont Cottonwood Forest	S	S	S	S	S	**Bot-1a**	LS
Project Buffer							
Annual Grassland, Blue Oak Woodland, Canal, Chamise, Ponds and Valley-Foothill Riparian	S	S	S	S	S	**Bot-1a**	LS
Agriculture; Urban/Disturbed Land	NI	NI	NI	NI	NI	N/A	N/A
Impact Bot-2: A Substantial Adverse Effect, Either Directly or Through Habitat Modifications, on any Species Identified as a Candidate, Sensitive, or Special-status Species in Local or Regional Plans, Policies, or Regulations, or by CDFW or USFWS							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Recreation Areas, Road Relocations and South Bridge, Sites Pumping/Generating Plant; Sites Electrical Switchyard; Sites Reservoir Inlet/ Outlet Structure; Field Office Maintenance Yard, Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Sites/Delevan Overhead Power Line, Project Buffer	S	S	S	S	S	**Bot 2:** Conduct Preconstruction Surveys for Special-status Plants; if Found, Compensate According to USFWS, CDFW, and CNPS Guidelines	LS
Holthouse Reservoir Complex, Holthouse Reservoir Electrical Switchyard	S	S	S	S	S	**Bot-1b; Bot 2**	LS
GCID Canal Facilities Modifications	NI	NI	NI	NI	NI	N/A	N/A
TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to TRR	LS	LS	LS	LS	LS	N/A	
Delevan Pipeline Intake/Discharge Facilities	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Impact Bot-3: An Increase in Potential for the Invasion or Spread of Noxious Weed Species							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Trinity River, Klamath downstream of Trinity River, Spring Creek, Lewiston Lake; Whiskeytown Lake, Clear Creek, Keswick Reservoir; Lake Natoma; Thermalito Complex, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Sacramento River, Sacramento-San Joaquin Delta, Suisun Bay, Feather River; American River, Sutter Bypass; Yolo Bypass	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Recreation Areas, Road Relocations and South Bridge, Sites Pumping/Generating Plant; Sites Electrical Switchyard; Sites Reservoir Inlet/ Outlet Structure; Field Office Maintenance Yard, Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard, Delevan Pipeline Intake/Discharge Facilities, TRR Pipeline, TRR Pipeline Road, Project Buffer	S	S	S	S	S	**Bot-3a:** Implement Preventive Actions by Following Weed Control BMPs; Minimize Exposed Ground; Reduce Weed Seed by Removal of On-site and Off-site weeds	LS
GCID Canal Facilities Modifications, TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR	NI	NI	NI	NI	NI	N/A	N/A
Delevan Pipeline, Sites/Delevan Overhead Power Line	S	S	S	S	S	**Bot-3b:** Implement Avoidance Measures in Areas Adjacent to the Delevan National Wildlife	LS
Impact Bot-4: Indirect Impacts to Native Plants from Human Disturbance							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams, Recreation Areas, Road Relocations and South Bridge, Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard; Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, and Delevan Pipeline Electrical Switchyard, Project Buffer	S	S	S	S	S	**Bot-2**	LS
Sites Pumping/Generating Plant; Sites Electrical Switchyard; Sites Reservoir Inlet/Outlet Structure; Field Office Maintenance Yard, Sites/Delevan Overhead Transmission Line, Delevan Pipeline Intake/Discharge Facilities	LS	LS	LS	LS	LS	N/A	N/A
GCID Canal Facilities Modifications, TRR, TRR Pimping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR	NI	NI	NI	NI	NI	N/A	N/A
Impact Bot-5: Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local or Regional Habitat Conservation Plan, or Conflict with any Local Policies or Ordinances Protecting Biological Resources, such as a Tree Preservation Policy or Ordinance							
Extended Study Area, Secondary Study Area, and Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
14. Terrestrial Biological Resources							
Impact Wild-1: A Substantial Adverse Effect, Including Alteration of Habitat Suitability, on any Wildlife Habitat, Especially Riparian Habitat or Other Sensitive Natural Communities Identified in Local or Regional Plans, Policies, Regulations, or by CDFW or USFWS.							
Extended Study Area							
Agricultural, Municipal, and Industrial Water Use	LS	LS	LS	LS	LS	N/A	N/A
Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
San Luis Reservoir	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Clear Creek, Lake Natoma, and the Thermalito Complex; Spring Creek, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Trinity River; Klamath River downstream of the Trinity River; Sacramento River; Sutter Bypass; Yolo Bypass; Feather River; American River; Sacramento-San Joaquin Delta; and Suisun Bay;	LS	LS	LS	LS	LS	N/A	N/A
Sacramento River	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams							
Annual Grassland; Blue Oak Woodland; Dryland Grain and Seed Crops; Pasture, Valley Foothill Riparian; and Valley Oak Woodland	S	S	S	S	S	**Wild-1a:** Confirm Species/Habitat Presence through Appropriately Timed Surveys Per Protocols Identified in Coordination with USFWS and CDFW **Wild 1b:** Identify and Implement a Combination of Habitat Protection, Enhancement, Restoration, or Conservation Easement Measures, in Consultation with USFWS, CDFW, and USACE	LS
Lacustrine – Inundation and Water Level Fluctuations	LS	LS	LS	LS	LS	N/A	N/A
Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Valley Oak Woodland Habitat	S	S	S	S	S	**Wild-1a**	LS
Recreation Areas and Associated Electrical Distribution Lines							
Annual Grassland; Blue Oak Woodland	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Chamise-Redshank Chaparral; Lacustrine	LS	LS	LS	LS	LS	N/A	N/A
Road Relocations and South Bridge							
Annual Grassland; Blue Oak Woodland; Chamise-Redshank Chaparral; Dryland Grain and Seed Crops; Mixed Chaparral; Valley Foothill Riparian	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Canal	NI	NI	NI	NI	NI	N/A	N/A
Lacustrine; Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Sites Reservoir Inlet/Outlet Structure, Field Office Maintenance Yard							
Annual Grassland; Valley Foothill Riparian	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Lacustrine; Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Tunnel from Sites Pumping/Generating Plant to Sites Reservoir Inlet/Outlet Structure	NI	NI	NI	NI	NI	N/A	N/A
Holthouse Reservoir Complex, Holthouse Reservoir Electrical Switchyard							
Annual Grassland; Dryland Grain and Seed Crops; Fresh Emergent Wetland; Irrigated Row and Field Crops; Valley Foothill Riparian	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Canal; Lacustrine; Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
GCID Canal Facilities Modifications	LS	LS	LS	LS	LS	N/A	N/A
TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR							N/A
Canal	NI	NI	NI	NI	NI	N/A	N/A
Urban/Disturbed, Deciduous Orchard	LS	LS	LS	LS	LS	N/A	N/A
Dryland Grain and Seed Crops; Pasture; Rice	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard							
Canal	NI	NI	NI	NI	NI	N/A	N/A
Barren; Dryland Grain and Seed Crops; Eucalyptus; Fresh Emergent Wetland; Lacustrine; Irrigated Row and Field Crops; Pasture; Rice	S	S	S	S	S	**Wild-1a; Wild-1b**	LS

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Deciduous Orchard; Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Sites/Delevan Overhead Power Line							
Annual Grassland; Barren; Dryland Grain and Seed Crops; Valley Foothill Riparian	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Canal	NI	NI	NI	NI	NI	N/A	N/A
Delevan Pipeline Intake Facilities							
Canal; Urban/Disturbed	LS	N/A	LS	LS	LS	N/A	N/A
Deciduous Orchard; Riverine: Valley Foothill Riparian	S	N/A	S		S	**Wild-1a**	LS
Project Buffer							
Annual Grassland, Barren, Blue Oak Woodland, Canal, Chamise-Redshank Chaparral, Lacustrine, Valley Foothill Riparian; Deciduous Orchard, Dryland Grain and Seed Crops, Irrigated Row and Field Crops, Pasture, Rice;	S	S	S	S	S	**Wild-1a; Wild-1b**	LS
Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Delevan Pipeline Discharge Facility							
Canal; Urban/Disturbed	LS	LS	LS	LS	LS	N/A	N/A
Deciduous Orchard; Riverine: Valley Foothill Riparian	S	S	S	S	S	**Wild-1a**	LS
Impact Wild-2: A Substantial Adverse Effect, Including Mortality, Either Directly or through Habitat Modifications, on any Species Identified as a Candidate, Sensitive, or Special-status Species in Local or Regional Plans, Policies, or Regulations, or by CDFW or USFWS							
Extended Study Area							
Agricultural, Municipal, and Industrial Water Use, San Luis Reservoir	LS	LS	LS	LS	LS	N/A	N/A
Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Spring Creek, Clear Creek, Lake Natoma, Thermalito Complex, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Trinity River; Klamath River downstream of the Trinity River; Sacramento River; Sutter Bypass; Yolo Bypass; Feather River; American River; Sacramento-San Joaquin Delta, and Suisun Bay	LS	LS	LS	LS	LS	N/A	N/A
Sacramento River							
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Operation	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams							
Migratory Birds and Roosting Bats	S	S	S	S	S	**Wild-2a:** Prepare and Implement a Bird and Bat Conservation Strategy	LS
Bald Eagle	S	S	S	S	S	**Wild-2b:** Obtain Permit for Bald Eagle Nest Tree Removal, Remove Nest Tree Outside of Breeding Season, and Create Habitat	LS
Golden Eagle	S	S	S	S	S	**Wild-2e:** Implement Avoidance and Minimization Measures at Historical or Active Golden Eagle Nest Sites. Conduct Satellite Telemetry Studies Pre and Post Construction to Determine Territory Size. Prepare a Golden Eagle Protection and Monitoring Plan. Mitigate for Loss of Annual Grassland Foraging	SU

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
						Habitat.	
Valley Elderberry Longhorn Beetle	S	S	S	S	S	**Wild-2g:** Implement Protective Actions to Avoid or Minimize Impacts to Elderberry Plants. Where Avoidance is not Possible, Transplant or Replace Plants, According to USFWS Guidelines.	LS
Western Burrowing Owl	S	S	S	S	S	**Wild-2g:** Conduct Preconstruction Surveys for Western Burrowing Owls. If Owls are Found, Implement Protective Actions.	LS
Western Pond Turtle	S	S	S	S	S	**Wild 2i:** Conduct Preconstruction Surveys and Provide a Biological Monitor During Project Construction for the Western Pond Turtle. If Found, Turtles shall be Captured and Relocated by a Qualified Biologist.	LS
Recreation Areas and Associated Electrical Distribution Lines							
Golden Eagle	S	S	S	S	S	**Wild-2e**	SU
Road Relocations and South Bridge							
Migratory Birds and Roosting Bats	S	S	S	S	S	**Wild-2a**	LS
Valley Elderberry Longhorn Beetle	S	S	S	S	S	**Wild-2g**	LS
Western Burrowing Owl	S	S	S	S	S	**Wild-2h**	LS
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Sites Reservoir Inlet/Outlet Structure, Field Office Maintenance Yard							
Migratory Birds and Roosting Bats	S	S	S	S	S	**Wild-2a**	LS
Tunnel from Sites Pumping/Generating Plant to Sites Reservoir Inlet/Outlet Structure	NI	NI	NI	NI	NI	N/A	N/A
Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard							
Water-Dependent Bird Species	LS	LS	LS	LS	LS	N/A	N/A
Western Pond Turtle	S	S	S	S	S	**Wild-2i**	LS
GCID Canal Facilities Modifications							
Giant Garter Snake	S	S	S	S	S	**Wild-2d:** Conduct Preconstruction Surveys for Giant Garter Snakes and Implement Protective Actions. Conduct Project Construction Activity Between May 1 and October 1 in Giant Garter Snake Habitat. Compensate for Temporary Disturbance of Habitat According to USFWS Guidelines.	LS
Delevan Pipeline, Terminal Regulating Reservoir Pipeline, Terminal Regulating Reservoir Pipeline Road, and Delevan Pipeline Electrical Switchyard							
Migratory Birds and Roosting Bats	S	S	S	S	S	**Wild-2a**	LS
Bank Swallow	S	S	S	S	S	**Wild-2c:** Implement Protective Actions to Prevent Bank Swallows from Nesting in the Cut Banks of Construction Trenches	LS
Giant Garter Snake	S	S	S	S	S	**Wild-2d**	LS

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Western Pond Turtle	S	S	S	S	S	**Wild-2i**	LS
Western Yellow-Billed Cuckoo	NI	NI	NI	NI	NI	N/A	N/A
Sites/Delevan Overhead Power Line	LS	LS	LS	LS	LS	NA	N/A
Delevan Pipeline Intake Facilities							
Bank Swallow	NI	N/A	NI	NI	NI	N/A	N/A
Ringtail	S	N/A	S	S	S	**Wild-2f:** Implement Protective Actions to Minimize Impacts to the Ringtail, and Restore Connectivity of Riparian Corridor **Wild-3c:** Restore Riparian Habitat Connectivity	LS
Valley Elderberry Longhorn Beetle	S	N/A	S	S	S	**Wild-2g**	LS
Western Yellow-billed Cuckoo	S	N/A	S	S	S	**Wild 2j:** Conduct Preconstruction Surveys for the Western Yellow-billed Cuckoo and Schedule Construction Activities to Avoid Impacts to Nest Sites	LS
Project Buffer	S	S	S	S	S	**Wild-1a; Wild-1b; Wild-2a**	LS
Delevan Pipeline Discharge Facility							
Bank Swallow	NI	NI	NI	NI	NI	N/A	N/A
Ringtail	S	S	S	S	S	**Wild-2e; Wild-3c**	LS
Valley Elderberry Longhorn Beetle	S	S	S	S	S	**Wild-2f**	LS
Western Yellow-billed Cuckoo	S	S	S	S	S	**Wild-2i**	LS
Impact Wild-3: Substantial Interference with the Movement of any Native Resident or Migratory Wildlife Species, or with Established Native Resident or Migratory Wildlife Corridors, or Impede the Use of Native Wildlife Nursery Sites							
Extended Study Area							
Agricultural, Municipal, and Industrial Water Use, San Luis Reservoir	LS	LS	LS	LS	LS	N/A	N/A
Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Spring Creek, Clear Creek, Lake Natoma, Thermalito Complex, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Trinity River; Klamath River downstream of the Trinity River; Sacramento River; Sutter Bypass; Yolo Bypass; Feather River; American River; Sacramento-San Joaquin Delta, and Suisun Bay	LS	LS	LS	LS	LS	N/A	N/A
Sacramento River							
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Operation	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams	LS	LS	LS	LS	LS	N/A	N/A
Recreation Areas	LS	LS	LS	LS	LS	N/A	N/A
Road Relocations and South Bridge	LS	LS	LS	LS	LS	N/A	N/A
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Sites Reservoir Inlet/Outlet Structure, Field Office Maintenance Yard	LS	LS	LS	LS	LS	N/A	N/A
Tunnel from Sites Pumping/Generating Plant to Sites Reservoir Inlet/Outlet Structure	NI	NI	NI		NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Holthouse Reservoir Complex	LS	LS	LS	LS	LS	N/A	N/A
GCID Canal Facilities Modifications	LS	LS	LS	LS	LS	N/A	N/A
TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR	LS	LS	LS	LS	LS	N/A	N/A
Delevan Pipeline, Terminal Regulating Reservoir Pipeline, Terminal Regulating Reservoir Pipeline Road, and Delevan Pipeline Electrical Switchyard	S	S	S	S	S	**Wild-3a:** During Project Construction, Backfill Trenches within 72 hours of Pipeline Installation and Provide an Escape Ramp for Trapped Wildlife	LS
Sites/Delevan Overhead Power Line	S	S	S	LS	S	**Wild-3b:** Construct Transmission Lines and Associated Equipment Following Suggested Practices for Avian Protection on Power Lines	LS
Delevan Pipeline Intake Facilities	S	N/A	S	S	S	**Wild-3c:** Restore Riparian Habitat Connectivity	LS
Project Buffer	LS	LS	LS	LS	LS	N/A	N/A
Delevan Pipeline Discharge Facilities	S	S	S	S	S	**Wild-3c**	LS
Impact Wild-4: Indirect Effects on Common Wildlife from Human Disturbance							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Wild-5: Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local or Regional Habitat Conservation Plan, or Conflict with any Local Policies or Ordinances Protecting Biological Resources, such as a Tree Preservation Policy or Ordinance							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
15. Wetlands and Other Waters							
Impact Wet-1: A Permanent Change in the Use or Quality (Extent in Acres or Miles) of "Other Waters", (Including, but not Limited to, Lakes, Rivers, Streams Tributary to Navigable Rivers, Natural Ponds, Canals, or Ditches) that are Determined by the USACE to be Jurisdictional, through Direct Removal, Filling, Obstruction, Hydrological Interruption, or other Means							
Extended Study Area							
Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
San Luis Reservoir	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Thermalito Complex, Lake Natoma, Sacramento River, Spring Creek, Clear Creek, Sacramento-San Joaquin Delta, Suisun Bay, Pump Installation at the Red Bluff Pumping Plant, Trinity River and Klamath River Downstream of the Trinity River; Feather River; Sutter Bypass	LS	LS	LS	LS	LS	N/A	N/A
San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams							
Streams	S	S	S	S	S	**Wet-1a:** Implement Compensatory Mitigation Measures for Streams pursuant to USACE and State Determination within the Watershed in which the Impacts	LS

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
						Occur	
Stock Ponds	S	S	S	S	S	**Wet-1c:** Restore Ponds to Original Condition, or Implement Other Compensatory Mitigation Measures pursuant to USACE Determination within the Same Hydrologic Unit in which the Ponds Occur	N/A
Recreation Areas							
Streams	S	S	S	S	S	**Wet-1a**	LS
Ponds	LS	LS	LS	LS	LS	N/A	N/A
Road Relocations and South Bridge							
Streams	S	S	S	S	S	**Wet-1a**	LS
Ponds	LS	LS	LS	LS	LS	N/A	N/A
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Tunnel, Sites Reservoir Inlet/Outlet Structure, Field Maintenance Office							
Streams	S	S	S	S	S	**Wet-1a**	LS
Ponds	LS	NI	LS	LS	LS	N/A	N/A
Holthouse Reservoir Complex							
Streams	S	S	S	S	S	**Wet-1a**	LS
Funks Reservoir	S	S	S	S	S	**Wet-1c**	LS
Holthouse Reservoir Electrical Switchyard	S	NI	S	S	S	N/A	N/A
TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR							
Ditches and Canals	LS	NI	LS	LS	LS	N/A	N/A
Sites/Delevan Overhead Power Line							
Streams	LS	LS	LS	LS	LS	N/A	N/A
Ponds	LS	LS	LS	LS	LS	N/A	N/A
TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Delevan Pipeline							
Streams	LS	LS	LS	LS	LS	N/A	N/A
Ponds	S	S	S	S	S	**Wet-1c**	LS
Ditches and Canals	S	S	S	S	S	**Wet-1b:** Reroute Drainage Ditches and Canals to Ensure Continued Hydrological Connection, or Implement Other Compensatory Mitigation Measures per USACE Determination	LS
Delevan Pipeline Intake Facilities							
Streams	S	N/A	S	S	S	**Wet-1a**	LS
Project Buffer	LS	LS	LS	LS	LS	N/A	LS
Delevan Pipeline Discharge Facilities							
Streams	N/A	S	N/A	N/A	N/A	**Wet-1a**	LS
Impact Wet-2: A Permanent Adverse Effect to Federally Protected Wetlands (as Defined by Section 404 of the Clean Water Act [Including, but not Limited to, Marsh, Vernal Pool, Coastal]) through Direct Removal, Filling, Hydrological Interruption, Discharge of Pollutants, or Other Means							
Extended Study Area							
Wildlife Refuge Water Use, San Luis Reservoir	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Trinity River, Klamath River Downstream of the Trinity River, Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake, Lewiston Lake, Whiskeytown Lake, Keswick Reservoir, Feather River; Thermalito Complex, Lake Natoma, Sacramento River; Spring Creek; Clear Creek; Sacramento-San Joaquin Delta, Suisun Bay	LS	LS	LS	LS	LS	N/A	N/A
Sutter Bypass; Yolo Bypass; American River	LS	LS	LS	LS	LS	N/A	N/A
San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams							
Seasonal Wetlands	S	S	S	S	S	**Wet-2a:** Conserve, Enhance, Restore, or Create Seasonal Wetlands, or Implement Other Compensatory Mitigation Measures Pursuant to USACE Determination within the Watershed in which the Impacts Occur	LS
Alkaline Wetlands and Salt Lake Pond	S	S	S	S	S	**Wet-2b:** Conserve, Enhance, Restore, or Create Alkaline Wetlands, or Implement Other Compensatory Mitigation Measures Pursuant to USACE Determination within the Watershed in which the Impacts Occur	LS
Vernal Pools	S	S	S	S	S	**Wet-2c:** Conserve, Enhance, Restore, or Create Vernal Pools Equivalent to the Type of Vernal Pools Adversely Impacted, or Implement Other Compensatory Mitigation Measures Pursuant to USACE Determination	LS
Emergent Wetlands	S	S	S	S	S	**Wet-2d:** Conserve, Enhance, Restore, or Create Emergent Wetlands, or Implement Other Compensatory Mitigation Measures Pursuant to USACE Determination within the Watershed in which the Impacts Occur	LS
Riparian Wetlands	S	S	S	S	S	**Wet-2e:** Conserve, Enhance, Restore, or Create Comparable Riparian Wetlands in the Inner Coast Range Foothills, or Implement Other Compensatory Mitigation Measures Pursuant to USACE Determination	LS
Recreation Areas							
Seasonal Wetlands	S	S	S	S	S	**Wet-2a**	LS
Road Relocations and South Bridge							
Seasonal Wetlands	LS	LS	LS	LS	LS	N/A	N/A
Alkaline Wetlands	LS	LS	LS	LS	LS	N/A	N/A
Vernal Pools	LS	LS	LS	LS	LS	N/A	N/A
Emergent Wetlands	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Sites Pumping/Generating Plant, Sites Electrical Switchyard, Tunnel, Sites Reservoir Inlet/Outlet Structure, Field Office Maintenance Yard, Holthouse Reservoir Electrical Switchyard, TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR,	NI	NI	NI	NI	NI	N/A	N/A
Holthouse Reservoir Complex							
Alkaline Wetlands	S	S	S	S	S	**Wet-2b**	LS
Seasonal Wetlands	S	S	S	S	S	**Wet-2a**	LS
Sites/Delevan Overhead Power Line							
Alkaline Wetlands; Vernal Pools	LS	NI	LS	LS	LS	N/A	N/A
Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard							
Alkaline Wetlands	S	S	S	S	S	**Wet-2b**	LS
Vernal Pools	S	S	S	S	S	**Wet-2c**	LS
Delevan Pipeline Intake Facilities							
Emergent Wetlands	LS	N/A	LS	LS	LS	N/A	N/A
Project Buffer	LS	LS	LS	LS	LS	N/A	N/A
Delevan Pipeline Discharge Facilities	LS	LS	LS	LS	LS	N/A	N/A
16. Geology, Minerals, Soils, and Paleontology							
Geology and Soils							
Impact Geo/Soils-1: Effects on a Geologic Unit or Soil Unit from Project Construction, Operation, and Maintenance							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Geo/Soils-2: Project Construction, Operation, and Maintenance Effects on Soil Erosion and Loss of Topsoil							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Geo/Soils-3: Risks to Life and Property from Project Construction, Operation, and Maintenance on Expansive Soil							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Geo/Soils-4: Project Construction, Operation, and Maintenance Effects on Soils that are Incapable of Adequately Supporting the Use of Septic Tanks or Alternative Wastewater Disposal Systems where Sewers are not Available for the Wastewater Disposal							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Minerals							
Impact Min-1: Loss of Availability of a Known Mineral Resource that would be of Value to the Region and the Residents of the State							
Extended, Secondary, and Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Min-2: Loss of Availability of a Locally Important Mineral Resource Recovery Site Delineated on a Local General Plan, Specific Plan, or Other Land Use Plan							
Extended, Secondary, and Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Min-3: Expose People to Naturally Occurring Asbestos during Project Construction, Operation, or Maintenance							
Extended, Secondary, and Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Paleontology							
Impact Paleo-1: Project Construction, Operation, and Maintenance Effects on Paleontological Resources							
Extended and Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Primary Study Area							
Site Reservoir Inundation Area; Sites Reservoir Dams; Recreation Areas; Road Relocations and South Bridge; Sites Pumping/Generating Plant, Sites Electrical Switchyard, Tunnel, Sites Reservoir Inlet/Outlet Structure; Field Office Maintenance Yard; Holthouse Reservoir Complex; Holthouse Reservoir Electrical Switchyard, GCID Canal Facilities Modifications; GCID Canal Connection to the TRR; TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, TRR Pipeline; TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Delevan Transmission Line; Delevan Pipeline	S	S	S	S	S	**Paleo-1a:** Retain a Qualified Paleontological Resource Specialist Prior to the Start of Construction **Paleo-1b:** Consultation with the Paleontological Resource Specialist Prior to and During Project Construction **Paleo-1c:** Prepare and Implement a Paleontological Resources Monitoring and Mitigation Plan **Paleo-1d:** Conduct Paleontological Resources Awareness Training **Paleo-1e:** Conduct Monitoring During Project Construction and Prepare Monthly Reports **Paleo-1f:** Ensure Implementation of the Paleontological Resources Monitoring and Mitigation Plan	LS
Delevan Pipeline Intake Facilities	S	N/A	S	S	S	**Paleo-1a through Paleo-1f**	LS
Delevan Pipeline Discharge Facility	S	S	S	S	S	**Paleo-1a through Paleo-1f**	LS
Project Buffer	S	S	S	S	S	**Paleo-1a through Paleo-1f**	LS
17. Faults and Seismicity							
Impact Seis-1: Exposure of People or Structures to Fault Rupture, Seismic Ground Shaking, Seismic-related Ground Failure, Liquefaction, or Landslides							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Seis-2: Inundation by Seiches or Tsunamis							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Seis-3: Reservoir-induced Seismicity							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
18. Cultural/Tribal Cultural Resources							
Impact Cul-1: A Substantial Adverse Change in the Significance of an Archaeological Resource							
Extended Study Area	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	S	S	S	S	S	**Cul-1a:** Avoid Impacts on Historical Resources/Historic Properties **Cul-1b:** Conduct Archaeological Data Recovery **Cul-1c:** Conduct Archaeological Construction Monitoring **Cul-1d:** Immediately Halt Construction if Cultural Resources Are Discovered and Implement a Post Review Discovery Plan **Cul-1e:** Protection of Archaeological	LS

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
						Sites by Capping	
Impact Cul-2: A Substantial Adverse Change in the Significance of a Historical Resource of the Built Environment							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams; TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR, Delevan Transmission Line, Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Delevan Pipeline Intake Facilities; Project Buffer; Overhead Power Lines and Substations, Holthouse Reservoir Complex and Holthouse Reservoir Electrical Switchyard	S	S	S	S	S	**Cul-1a** **Cul-2a:** Follow the Secretary of the Interior's Standards for the Treatment of Historical Resources/Historic Properties **Cul-2b:** Record Built Environment Resources	SU (if eligible for CRHR or NRHP listing)
Impact Cul-3: Disturb a Traditional Cultural Property or a Tribal Cultural Resource as defined in PCR section 21074							
Extended Study Area	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area, Sites Reservoir Dams; TRR, TRR Pumping/Generating Plant, TRR Electrical Switchyard, GCID Canal Connection to the TRR, Delevan Transmission Line, Delevan Pipeline, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Delevan Pipeline Intake Facilities; Project Buffer; Overhead Power Lines and Substations, GCID Canal Facilities Modifications	S	S	S	S	S	**Cul-1a** **Cul-3:** Consult with Affected Communities Regarding How to Mitigate for Impacts on TCPs/TCRs	SU (if eligible for CRHR or NRHP listing)
Impact Cul-4: Disturb Human Remains, including those Interred Outside of Dedicated Cemeteries							
Extended Study Area	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	S	S	S	S	S	**Cul-1a** **Cul-4a:** Relocation of Dedicated or Known Cemeteries **Cul-4b:** Immediately Halt Construction if Human Remains Are Discovered and Implement a Burial Treatment Plan	SU (if eligible for CRHR or NRHP listing)
19. Indian Trust Assets							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
20. Land Use – CONFIRMING IMPACT CALLS WITH COUNTIES							
Impact Land-1: Physical Division of an Established Community							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area and Sites Reservoir Dams (construction, operation, and maintenance effects on the town of Sites)	S	S	S	S	S	No Feasible Mitigation	SU
Impact Land-2: Conflict with an Applicable Land Use Plan, Policy, or Regulation of an Agency with Jurisdiction over the Project Adopted for the Purpose of Avoiding or Mitigating an Environmental Effect							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Sites Reservoir Inundation Area and Sites Reservoir Dams; Recreation Areas; Road Relocations; South Bridge, and TRR Pipeline Road; Sites Pumping/Generating Plant; Sites Electrical Switchyard; Tunnel from Sites Pumping/Generating Plant to Sites Inlet/Outlet Structure; Sites Reservoir Inlet/Outlet Structure; Field Office Maintenance Yard; Asphalt Batch Plant; Holthouse Reservoir Complex; Holthouse Reservoir Electrical Switchyard; Delevan Pipeline Electrical Switchyard; TRR; TRR Pumping/Generating Plant; GCID Canal Connection to the TRR; TRR Electrical Switchyard; Delevan Pipeline Intake Facilities; Delevan Pipeline Discharge Facility (construction, operation, and maintenance)	S	S	S	S	S	**Land-2:** Work with Glenn and Colusa Counties to Modify or Amend Counties General Plans and/or Zoning Ordinances to Bring lands into Consistency with the Proposed Project Land Uses	SU
Impact Land-3: Conflict with Existing Zoning for, or Cause Rezoning of, Forest Land (as Defined in Public Resources Code Section 12220(g)), Timberland (as Defined by Public Resources Code Section 4526), or Timberland Zoned Timberland Production (as Defined by Government Code Section 51104(g))							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Land-4: Involve Other Changes in the Existing Environment which, Because of their Location or Nature, could Result in Conversion of Farmland to Non-agricultural Use or Conversion of Forest Land to Non-forest Use							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	LS
Impact Land-5: Changes in Land Use that are Considered to be Incompatible with the Existing Land Uses Adjacent to the Project Facilities							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Land-6: Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as Shown on the Maps Prepared Pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to Non-agricultural Use							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	S	S	S	NI	S	No Feasible Mitigation	SU
Impact Land-7: Permanent Conflict with Existing Zoning for Agricultural Use, and/or the Permanent Conversion of Lands that have a Williamson Act Contract							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Area and Sites Reservoir Dams; Recreation Areas; Road Relocations; South Bridge, and TRR Pipeline Road; Sites Pumping/Generating Plant; Sites Electrical Switchyard; Tunnel from Sites Pumping/Generating Plant to Sites Inlet/Outlet Structure; Sites Reservoir Inlet/Outlet Structure; Field Office Maintenance Yard; Asphalt Batch Plant; Holthouse Reservoir Complex; Holthouse Reservoir Electrical Switchyard; Delevan Pipeline Electrical Switchyard; TRR; TRR Pumping/Generating Plant; GCID Canal Connection to the TRR; TRR Electrical Switchyard; Delevan Pipeline Intake Facilities; Delevan Pipeline Discharge Facility (construction, operation, and maintenance)	S	S	S	S	S	**Land-7a:** Acquire Lands through Eminent Domain or Work with Land Owners to Acquire Properties and Pay Any Cancellation Fees Associated with Removing Lands from Williamson Act Contracts **Land-7b:** For Land Permanently Acquired other than by Eminent Domain, Seek County Approvals to Rescind Williamson Act Contracts and Enter in Open Space Contracts or Open Space Easements	LS
21. Recreation Resources							
Impact Rec-1: 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							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Primary Study Area							
All Primary Study Area Project Facilities except for the Delevan Pipeline Intake/Discharge Facilities	NI	NI	NI	NI	NI	N/A	N/A
Delevan Pipeline Intake Facilities	LS	N/A	LS	LS	LS	N/A	N/A
Delevan Pipeline Discharge Facility	LS	LS	LS	LS	LS	N/A	N/A
Impact Rec-2: Include Recreational Facilities or Require the Construction or Expansion of Recreational Facilities which might Have an Adverse Physical Effect on the Environment							
Extended Study Area							
Wildlife Refuge Water Use, San Luis Reservoir, Other Reservoirs	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Complex	LS	LS	LS	LS	LS	N/A	N/A
Impact Rec-3: Reduce Recreation Use Levels at Existing Nearby Recreation Facilities by Providing an Alternative New Site for Recreation Visitors							
Extended Study Area							
Wildlife Refuge Water Use, San Luis Reservoir, Other Reservoirs	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Trinity River, Klamath River downstream of the Trinity River, Shasta Lake, Sacramento River, Clear Creek, Feather River, American River, Sutter Bypass, Yolo Bypass, Sacramento-San Joaquin Delta, Suisun Bay, San Pablo Bay, San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Lake Oroville, Folsom Lake, Other Reservoirs	LS	LS	LS	LS	LS	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Rec-4: Affect Recreation Use Levels and/or Recreation Benefits at Existing Reservoirs or Rivers due to Changes in Operating Criteria							
Extended Study Area							
San Luis Reservoir, Other Reservoirs	NI	NI	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Shasta Lake, Lake Oroville, Folsom Lake	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Clear Creek, Sacramento-San Joaquin Delta; Suisun Bay, San Pablo Bay, San Francisco Bay, Other Reservoirs, Sacramento River, Feather River	NI	NI	NI	NI	NI	N/A	N/A
Trinity River, Sutter Bypass, Yolo Bypass, American River	LS	LS	LS	LS	LS	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Rec-5: Reduce Recreation Use Levels at Existing Recreation Facilities During the Period of Construction							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Sites Reservoir Inundation Areas, Sites Reservoir Dams; Recreation Areas, Road Relocations and South Bridge; Sites Pumping/Generating Plant; Sites Electrical Switchyard; Tunnel; Sites Reservoir Inlet/Outlet Structure; Field Office Maintenance Yard; Holthouse Reservoir Complex; Holthouse Reservoir Electrical Switchyard, GCID Canal Facilities Modifications; GCID Canal Connection to the TRR; TRR; TRR Pumping/Generating Plant; TRR Electrical Switchyard, TRR Pipeline; TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, Project Buffer	NI	NI	NI	NI	NI	N/A	N/A
Delevan Pipeline	LS	LS	LS	LS	LS	N/A	N/A
Sites/Delevan Overhead Power Line	LS	LS	LS	LS	LS	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Delevan Pipeline Intake Facilities	LS	N/A	LS	LS	LS	N/A	N/A
Delevan Pipeline Discharge Facility	LS	LS	LS	LS	LS	N/A	N/A
Impact Rec 6: Create Hazardous Conditions for Water Based Activities due to Changes in Operating Criteria							
Extended Study Area							
Wildlife Refuge Water Use, San Luis Reservoir, Other Reservoirs	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity River, Sacramento River, Lake Oroville, Sutter Bypass, Yolo Bypass, American River	LS	LS	LS	LS	LS	N/A	N/A
Trinity Lake, Klamath River downstream of the Trinity River, Clear Creek, Feather River, Folsom Lake, Sacramento-San Joaquin Delta, Suisun Bay, San Pablo Bay, San Francisco Bay, Other Reservoirs	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
22. Socioeconomics – TO BE COMPLETED							
Impact Socio-1: Substantial Adverse Effects on Regional Economics							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Socio-2: Substantial Adverse Effects on Population and Housing							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Socio-3: Substantial Adverse Effects on Local Government Fiscal Conditions							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Socio-4: Substantial Adverse Effects on Recreation Economics							
Extended, Secondary, and Primary Study Areas	Beneficial	Beneficial	Beneficial	Beneficial	Beneficial	N/A	N/A
Impact Socio-5: Substantial Adverse Effects on Agricultural Economics							
Extended, Secondary, and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Socio-6: Substantial Adverse Effects on M&I Water Use Economics							
Extended and Secondary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
23. Environmental Justice							
Impact Env Jus-1: A Disproportionate Share of an Adverse Impact (such as Traffic, Noise, Dust, Hazards, and/or Socioeconomic Effects) on a Minority or Low-income Population, Including the Potential for Minority or Low-income Populations to be Disproportionately Affected by Multiple Adverse Exposures Impacts							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area							
Minority and Low-income Populations	NI	NI	NI	NI	NI	N/A	N/A
Job and Recreational Opportunities	NI	NI	NI	NI	NI	N/A	N/A
24. Air Quality							
Impact Air Qual-1: Conflict with an Applicable Air Quality Plan, Contribute Substantially to an Air Quality Violation, and/or Result in a Cumulatively Considerable Net Increase of Nonattainment Pollutants							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	S	S	S	S	S	**Air Qual-1a:** Develop a Fugitive Dust Control Plan	SU (for Emissions of PM_{10})
						Air Qual-1b: Implement Measures to Reduce Equipment and Vehicle	SU (for Emissions of NO_x, PM_{10}, and

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
						Exhaust Emissions	ROG) LS (for Emissions of SO_x, CO, and $PM_{2.5}$)
Impact Air Qual-2: Expose Sensitive Receptors to Substantial Pollutant Concentrations							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Air Qual-3: Create Objectionable Odors Affecting a Substantial Number of People							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
25. Climate Change and Greenhouse Gas Emissions – TO BE COMPLETED							
Impact GHG-1: Generation of Cumulative GHG Emissions							
Extended, Secondary, and Primary Study Areas							
Construction, Operation, and Maintenance of the Proposed Project	S	S	S	S	S	No Feasible Mitigation	SU
Open Water Surfaces and Tailraces	LS	LS	LS	LS	LS	N/A	N/A
26. Navigation, Transportation, and Traffic							
Impact Nav-1: Conflict with Navigation Along any of the Navigable Waterways within the Extended, Secondary, and Primary Study Areas							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area (Delevan Complex)	LS	LS	LS	LS	LS	N/A	N/A
Impact Trans-1: Conflict with an Applicable Plan, Ordinance, or Policy Establishing Measures of Effectiveness for the Performance of the Circulation System, Considering all Modes of Transportation							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Trans-2: Conflict with an Applicable Congestion Management Program, Including, but not Limited to, Level of Service Standards and Travel Demand Measures, or Other Standards Established by the County Congestion Management Agency for Designated Roads or Highways							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Trans-3: Substantially Increase Hazards Due to a Design Feature or Incompatible Uses							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Trans-4: Result in Inadequate Emergency Access							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Trans-5: Conflict with Adopted Policies, Plans, or Programs Regarding Public Transit, Bicycle, or Pedestrian Facilities, or Otherwise Decrease the Performance or Safety of Such Facilities							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
27. Noise							
Impact Noise-1: Expose Persons to or Generation of Noise Levels in Excess of Established Standards							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Noise-2: Expose Persons to or Generation of Excessive Ground-borne Vibration or Ground-borne Noise Levels							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Noise-3: Result in a Substantial Permanent Increase in Ambient Noise Levels in the Project Vicinity							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Ba	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Noise-4: Result in a Substantial Temporary or Periodic Increase in Ambient Noise Levels in the Project Vicinity							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Noise-5: Expose People Residing or Working in the Project Area to Excessive Noise Levels (when the Project is Located within an Airport Land Use Plan or within 2 Miles of a Public Airport)							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Noise 6: Expose People Residing or Working in the Project Area to Excessive Noise Levels (for a Project within the Vicinity of a Private Airstrip)							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
28. Public Health and Environmental Hazards							
Impact Pub Health-1: Create a Significant Public or Environmental Hazard from the Routine Transport, Use, or Disposal of Hazardous Materials							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Pub Health-2: Create a Significant Public or Environmental Hazard from the Release of Hazardous Materials into the Environment							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Pub Health-3: Effects from Hazardous Emissions or Hazardous Materials, Substances, or Wastes within 0.25 Mile of an Existing or Proposed School							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
Secondary and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Pub Health-4: Create a Significant Hazard to the Public or the Environment from the Project being Located on a Listed Hazardous Materials Site							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Pub Health-5: Effects on Adopted Emergency Response Plan or Emergency Evacuation Plan Implementation							
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary and Primary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Impact Pub Health-6: Expose People or Structures to a Significant Risk of Loss, Injury, or Death from Wildland Fires							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Pub Health-7: Create a Safety Hazard for People Residing or Working in the Project Area (if Located within an Airport Land Use Plan or within 2 Miles of a Public Airport or Public Use Airport if no Plan has been Adopted)							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Pub Health-8: Creation of a safety hazard for people residing or working in the Project area (if located within the vicinity of a private airstrip).							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Pub Health-9: Expose People to an Increased Risk of Mosquito-borne or Other Vector-borne Illnesses, or Increased Exposure to Nuisance Problems							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
29. Public Services and Utilities							
Impact Services-1: A Substantial Adverse Physical Impact Associated with the Provision of New or Physically Altered Governmental Facilities or the Need for New or Physically Altered Governmental Facilities (the Construction of which Could Cause Significant Environmental Impacts) in Order to Maintain Acceptable Service Ratios, Response Times, or Other Performance Objectives for the Following Public Services: Fire Protection, Police Protection, Schools, Parks, and/or Other Public Facilities, and Disruptions to Local or Regional Utility Services							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Services-2: A Decline in Property Tax or Fee Revenues that Would Lead to a Substantial Decrease in Public Services							
Extended and Secondary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Services-3: Exceed the Wastewater Treatment Requirements of the Applicable Regional Water Quality Control Board							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Services-4: The Need for Expansion of Existing Wastewater Treatment, Water Treatment, Stormwater, and/or Landfill Facilities							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Services-5: Require New or Expanded Water Supply Entitlements and Resources							
Extended and Secondary Study Areas	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area	LS	LS	LS	LS	LS	N/A	N/A
Impact Services-6: Non-compliance with Federal, State, and Local Statutes and Regulations Related to Solid Waste							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
30. Visual Resources							
Impact Vis-1: A Substantial Adverse Effect on a Scenic Vista							
Extended, Secondary, and Primary Study Areas	NI	NI	NI	NI	NI	N/A	N/A
Impact Vis-2: Substantial Damage to Scenic Resources, Including, but not Limited to, Trees, Rock Outcroppings, and Historic Buildings within a State Scenic Highway							
Extended Study Area							
Agricultural Water Use, Municipal and Industrial Water Use, and Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A

Impact	Anticipated Impact in Comparison to Existing Conditions/No Action/No Project Condition Prior to Mitigation					Recommended Mitigation Measure	Level of Significance after Mitigation
	A	B	C	C_1	D		
San Luis Reservoir and Other Reservoirs	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	LS	LS	LS	LS	LS	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	NI	NI	NI	NI	NI	N/A	N/A
Primary Study Area	NI	NI	NI	NI	NI	N/A	N/A
Impact Visual-3: Substantial Degradation of the Existing Visual Character or Quality of the Site and its Surroundings							
Extended Study Area							
Agricultural Water Use, Municipal and Industrial Water Use, and Wildlife Refuge Water Use	NI	NI	NI	NI	NI	N/A	N/A
San Luis Reservoir and Other Reservoirs	LS	LS	LS	LS	LS	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Complex; Holthouse Reservoir Complex; Delevan Complex; Transmission Lines; and Project Buffer	LS	LS	LS	LS	LS	N/A	N/A
TRR; TRR Pumping/Generating Plant, TRR Electrical Switchyard, TRR Pipeline, TRR Pipeline Road, Delevan Pipeline Electrical Switchyard, GCID Canal Connection to the TRR	S	S	S	S	S	No Mitigation Available	SU
Extended Study Area	NI	NI	NI	NI	NI	N/A	N/A
Secondary Study Area							
Trinity Lake, Lewiston Lake, Trinity River, Klamath River downstream of the Trinity River, Whiskeytown Lake, Spring Creek, Shasta Lake, Keswick Reservoir, Clear Creek, Lake Oroville, Thermalito Complex; Feather River; Sutter Bypass; Yolo Bypass; Folsom Lake; Lake Natoma; American River; Sacramento-San Joaquin Delta; Suisun Bay; San Pablo Bay; San Francisco Bay	NI	NI	NI	NI	NI	N/A	N/A
Pump Installation at the Red Bluff Pumping Plant	LS	LS	LS	LS	LS	N/A	N/A
Primary Study Area							
Sites Reservoir Complex; Holthouse Reservoir Complex; TRR Complex; Delevan Complex; Transmission Lines; and Project Buffer	LS	LS	LS	LS	LS	N/A	N/A
31. Power Production and Energy – TO BE COMPLETED							
Impact Power-1: Inefficient, Wasteful, or Unnecessary Consumption of Energy during Construction, Maintenance, and Recreation Activities							
Extended Study Area	?	?	?	?	?	?	?
Secondary Study Area	?	?	?	?	?	?	?
Primary Study Area	?	?	?	?	?	?	?
Impact Power-2: Inefficient, Wasteful, or Unnecessary Consumption of Energy during Operational Activities							
Extended Study Area	?	?	?	?	?	?	?
Secondary and Primary Study Areas	?	?	?	?	?	?	?
Impact Power-3: A Substantial Reduction in the Generation of Renewable Energy							
Extended, Secondary, and Primary Study Areas	?	?	?	?	?	?	?

Notes:

LS = less than significant
N/A = not applicable
NI = no impact
S = significant
SU = significant and unavoidable

BMP = best management practices
CDFW = California Department of Fish and Wildlife
CNPS = California Native Plant Society
CO = carbon monoxide
CRHR = California Register of Historical Resources
CVP = Central Valley Project
GCID = Glenn-Colusa Irrigation District
GHG = greenhouse gas
M&I = municipal and industrial
NO_X = nitrogen oxides
NRHP = National Register of Historic Places
PM_{10} = respirable particulate matter with an aerodynamic diameter of 10 microns or less
$PM_{2.5}$ = respirable particulate matter with an aerodynamic diameter of 2.5 microns or less
SOX = sulfur oxide
SWP = State Water Project
TRR = Terminal Regulating Reservoir
USACE = U.S. Army Corps of Engineers
USFWS = U.S. Fish and Wildlife Service

Tribal Consultation

Consultation with Native American tribes was initiated. The Authority contacted the California Native American Heritage Commission (NAHC) on January 27, 2017, with a request for a list of tribes that have a traditional and cultural affiliation with the Primary Study Area. Table 2 summarizes the information NAHC provided on February 8, 2017, under Public Resources Code (PRC) Section 21080.3.1.

Table 2. Native American Consultation

Tribe	Contact	Notification Letter	Tribal Response	Consultation Actions to Date
Colusa Indian Community Council (Cachil Dehe Band of Wintun Indians)	Oscar Serrano, Principal Engineer	February 10, 2017	Letter requesting consultation was received by the Authority on February 6, 2017.	The Authority sent a letter in preparation for an initial meeting on March 6, 2017.
Cortina Indian Rancheria of Wintun Indians	Charlie Wright, Chairperson	February 10, 2017	No response, to date.	
Estom Yumeka Maidu Tribe of the Enterprise Rancheria	Glenda Nelson, Chairperson	February 10, 2017	No response, to date.	
Grindstone Indian Rancheria of Wintun-Wailaki	Ronald Kirk, Chairperson	February 10, 2017	No response, to date.	
Mechoopda Indian Tribe	Denis. E. Ramirez, Chairperson	February 10, 2017	No response, to date.	
Paskenta Band of Nomlaki Indians	Andrew Alejandre Chairperson	February 10, 2017	No response, to date.	
Yoche Dehe Wintun Nation	Leland Kinter, Chairperson	February 10, 2017	No response, to date.	

The Colusa Indian Community Council, the governing body of the Cachil Dehe Band of Wintun Indians, had previously notified the Authority that they wished to be notified of projects, pursuant to PRC Section 21080.3 in a letter dated January 3, 2017. Furthermore, the tribe contacted the Authority by letter dated February 6, 2017, in which they expressed their desire to consult on the Project. The Authority responded, by letter on March 6, 2017, acknowledging receipt of the request for consultation letter and informing the tribe that they would be in contact soon to set up a meeting date.

Although not prepared for PRC Section 21080.3.1 consultation, the Cortina Band of Wintun Indians prepared a report in 2010 (Cortina, 2010) to outline their concerns about the Project. In addition to expressing concerns about fish and water associated with the Project, the tribe provided recommendations regarding cultural resources, including, among other recommendations, the following (Cortina, 2010):

- "The Cortina Band wishes to be consulted at all phases of planning and build out to ensure that impacts on cultural resources are mitigated or avoided. When impacts are unavoidable, the Cortina Band wishes to be involved in determining the best course of action. In particular, the Site's [sic] Reservoir has a need for site testing, borings, and soil column sampling to ensure that cultural resources are not adversely impacted."
- "There is the potential for the project to increase the availability of crafts materials, medicines and foods from riparian and wetland areas. Cortina would like to be consulted on the biological mitigations and enhancements to ensure the tribal perspective is considered in these processes."

The Authority will continue to consult with tribes that have a traditional and cultural affiliation with the Primary Study Area throughout development and construction of the Project.

ADD AB52

References

Cortina. 2010