

## Early Funding Tab

### Attachment A1: Scope of Work

*Attach a schedule, scope of work, and budget.*

*Keep in mind that the applicant must provide a 50 percent cost share and reimbursable costs can only go back to November 4, 2014.*

*Scope of work must include an explanation of why early funding is critical to the project, the viability of the project in the absence of this funding and how the project will proceed once early funding is expended.*

*The scope of work cannot include work performed prior to submittal of the application.*

*The tasks in the schedule, scope of work and budget should match.*

*WSIP Application Instructions, March 2017*

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## Acronyms and Abbreviations

CEQA	California Environmental Quality Act
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
NEPA	National Environmental Policy Act

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## Introduction

The primary activities requiring early funding to support implementation of the Sites Reservoir Project (Project) are associated with federal, state, and local environmental compliance and approvals. The Authority and Reclamation will be releasing the joint public draft Environmental Impact Report/ Environmental Impact Statement (EIR/EIS) in August 2017. In addition to needing to complete the final EIR/EIS and related decision documents per the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA), several permits and authorizations will be required prior to Project construction. Many of these permit applications require a sufficient level of engineering design, field surveys (some multiple year), public review, and agency input and review to obtain which can in many cases require multiple years to complete. As such, multiple activities need to be initiated to maintain project schedules including continued engineering design to finalize all facility locations, permit application development and required surveys, and review of anticipated impacts and proposed/required impacts minimization and mitigation measures.

Early and consistent coordination with federal, state, and local permitting entities throughout the permitting process will be critical to successful project implementation. Anticipated permits and authorizations are identified below, as well as anticipated level of effort to obtain each approval. Given the scale of the proposed project, the effort anticipated to obtain all permits will be substantial and is proposed to continue to be in part funded by Project participants, as well as the State given the projected benefits to the State that will be provided by the Project. Early funding from the State to support the approval acquisition effort is critical to ensure all approvals are obtained in a timely manner to meet the required project implementation schedule.

## Acquisition of Required Permits and Authorizations

A variety of federal, state, and local agencies permits and approvals will be required to allow for Project implementation, including approvals under the federal and California Endangered Species Acts, issuance of permits under the Clean Water Act, and agency approvals under other federal, state, and local laws and regulations. Table A1-1 identifies the approvals/jurisdiction and authorizations that are anticipated for the Project.

Table A1-1. Primary Anticipated Permits, Approvals, and Authorizations for the Sites Reservoir Project

Jurisdiction	Responsibility
<b>Federal Agency Permits, Approvals, and Authorizations</b>	
United States Department of the Interior, Bureau of Reclamation	<ul style="list-style-type: none"> <li>• Complete Final EIS and issue the Record of Decision (ROD) as the representative NEPA lead agency for the Department of the Interior.</li> <li>• Prepare and submit biological assessment to U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) for consideration of issuance of biological opinions</li> <li>• National Historic Preservation Act of 1966, Sections 106 and 110</li> <li>• American Indian Religious Freedom Act</li> <li>• Native American Graves Protection and Repatriation Act</li> </ul>
United States Department of the Interior, USFWS	<ul style="list-style-type: none"> <li>• Issue biological opinion to Reclamation in accordance with ESA Section 7 consultation and incidental take authorization</li> <li>• Determine compliance with the following legislation:                             <ul style="list-style-type: none"> <li>– Fish and Wildlife Coordination Act</li> <li>– Bald and Golden Eagle Protection Act</li> <li>– Migratory Bird Treaty Act</li> <li>– Wild and Scenic Rivers Act</li> </ul> </li> </ul>
National Oceanic and Atmospheric Administration, NMFS	<ul style="list-style-type: none"> <li>• Issue a biological opinion to Reclamation in accordance with Endangered Species Act (ESA) Section 7 consultation and incidental take authorization</li> <li>• Determine compliance with the following legislation:                             <ul style="list-style-type: none"> <li>– Fish and Wildlife Coordination Act</li> <li>– Magnuson-Stevens Fishery Conservation and Management Act</li> </ul> </li> </ul>
United States Army Corps of Engineers (USACE)	<ul style="list-style-type: none"> <li>• Issue permits and approvals related to the following legislation and Executive Order:                             <ul style="list-style-type: none"> <li>– Rivers and Harbors Act Section 9 (construction of dikes), Section 10 (alteration of navigable waters), and Section 408 (levee modification)</li> <li>– Clean Water Act Section 404 (discharge of dredge/fill) permitting and Section 401 water quality certification</li> <li>– Emergency Flood Control Fund Act of 1955</li> <li>– Executive Order 11988 (floodplain management)</li> <li>– Executive Order 11990 (protection of wetlands)</li> </ul> </li> </ul>
United States Environmental Protection Agency (USEPA)	<ul style="list-style-type: none"> <li>• Provide compliance with the following legislation (and through agreements with the State of California to implement requirements through CalEPA associated with air quality):                             <ul style="list-style-type: none"> <li>– Clean Water Act in coordination with USACE (including evaluation of Least Environmentally Damaging Practicable Alternative [LEDPA])</li> <li>– Spill Prevention Control and Countermeasures Plan (SPCCP) developed in accordance with 40 Code of Federal Regulations (CFR) 112</li> <li>– Clean Air Act and State Implementation Plan, including the National Ambient Air Quality Standards (NAAQS), as well as Section 309 evaluation of draft EIS</li> <li>– Safe Drinking Water Act</li> </ul> </li> </ul>
Federal Energy Regulating Commission (FERC)	<ul style="list-style-type: none"> <li>• Potentially provide a license for the Project hydropower component</li> </ul>
<b>State Agency Permits, Approvals, and Authorizations</b>	
California Air Resources Board	<ul style="list-style-type: none"> <li>• Administer the air quality policy to achieve the California Ambient Air Quality Standards (including the NAAQS for USEPA) and State Air Quality Designations</li> </ul>

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Jurisdiction	Responsibility
California Department of Boating and Waterways	<ul style="list-style-type: none"> <li>California Harbors and Navigation Code compliance</li> </ul>
California Department of Fish and Wildlife	<ul style="list-style-type: none"> <li>Lake and Streambed Alteration Agreement permitting (pursuant to Section 1602 of the California Fish and Game Code)</li> <li>Compliance with Fish and Game Code related to fully protected species, birds of prey, native plant protection, invasive species, sufficient fisheries flows below dams, and fish screening</li> <li>California Endangered Species Act consultation and incidental take authorization (Section 2081)</li> <li>California Native Plant Protection Act</li> <li>Salmon, Steelhead Trout, and Anadromous Fisheries Program Act</li> <li>Marine Invasive Species Act</li> </ul>
California Department of Toxic Substances Control	<ul style="list-style-type: none"> <li>Compliance with generation, transportation, treatment, storage, and disposal of hazardous waste regulations</li> </ul>
California Department of Transportation	<ul style="list-style-type: none"> <li>Issuance of encroachment/transportation in coordination with the Federal Highway Administration for federal highways</li> <li>Approval of transportation management plans</li> </ul>
California Office of Historic Preservation	<ul style="list-style-type: none"> <li>Coordinate with implementation of the California Register of Historical Resources under CEQA</li> <li>Coordinate with federal agencies implementation of National Historic Preservation Act Section 106 consultation</li> </ul>
California State Lands Commission (CSLC)	<ul style="list-style-type: none"> <li>Issue leases for work in areas under CSLC jurisdiction (e.g., along Sacramento River)</li> </ul>
California State Water Resources Control Board	<ul style="list-style-type: none"> <li>Issue water rights</li> <li>Administer Clean Water Act for USEPA in coordination with Central Valley Regional Water Quality Board (CVRWQCB)</li> </ul>
California Department of Water Resources, Division of Safety of Dams	<ul style="list-style-type: none"> <li>Approval of plans and specifications for the construction or enlargement of a dam or reservoir</li> </ul>
Central Valley Regional Water Quality Control Board	<ul style="list-style-type: none"> <li>Clean Water Act Section 401 certification Clean Water Act Section 402 National Pollutant Discharge Elimination System (NPDES) permitting (including requirements for construction Stormwater Pollution Prevention Plan [SWPPP])</li> </ul>
Central Valley Flood Protection Board	<ul style="list-style-type: none"> <li>Responsible for controlling flooding along the Sacramento and San Joaquin rivers and their tributaries in cooperation with USACE</li> <li>Maintain integrity of existing flood control system/designated floodways through permits for encroachments</li> </ul>
Native American Heritage Commission	<ul style="list-style-type: none"> <li>Identify sacred sites and Most Likely Descendants for Native American burials and provision of Native American contact information</li> </ul>
<b>Regional and Local Agency Permits, Approvals, and Authorizations</b>	
<b>Colusa, Glenn, and Tehama Counties</b>	
Planning Departments	<ul style="list-style-type: none"> <li>Issuance of Conditional Use Permit</li> <li>Rezoning of parcels in both counties</li> <li>Conformance with State Surface Mining and Reclamation Act (SMARA) permitting or exemption if borrow is required from borrow site(s) not previously permitted</li> <li>Conformance with CEQA environmental review requirements</li> </ul>

Jurisdiction	Responsibility
Engineering and Surveying Services Departments	<ul style="list-style-type: none"> <li>Plan approval for county road or bridge crossings at creeks or grading for structures drainage plan; and grading permit</li> <li>Erosion control plan development and permitting</li> <li>Building and electrical permitting</li> <li>Development of blasting plan for foundation/roadway installation</li> </ul>
Environmental Health Services Departments	<ul style="list-style-type: none"> <li>Septic and water system permitting, including well installations</li> </ul>
Roads Departments	<ul style="list-style-type: none"> <li>Encroachment permitting</li> <li>Construction traffic control plan development for county roads</li> <li>Assessment of fees for increases in peak-hour trips, if required</li> <li>Heavy haul permitting</li> <li>Roadway damage and repair bonds</li> </ul>
Fire Departments	<ul style="list-style-type: none"> <li>Permitting for the use and storage of hazardous and flammable materials/wastes</li> <li>Hazardous materials business plan development</li> <li>Fire protection plan development</li> </ul>
Colusa County APCD and Glenn County APCD	<ul style="list-style-type: none"> <li>Administer local air quality plans and coordinate with the California Air Resources Board</li> </ul>

Notes:

APCD = Air Pollution Control District  
 CalEPA = California Environmental Protection Agency  
 CFR = Code of Federal Regulations  
 CSLC = California State Lands Commission  
 CVRWQCB = Central Valley Regional Water Quality Control Board  
 FERC = Federal Energy Regulating Commission  
 EIS = Environmental Impact Statement  
 ESA = Endangered Species Act  
 LEDPA = Least Environmentally Damaging Practicable Alternative  
 NAAQS = National Ambient Air Quality Standard  
 NMFS = National Marine Fisheries Service  
 NPDES = National Pollutant Discharge Elimination System  
 ROD = Record of Decision  
 SMARA = Surface Mining and Reclamation Act  
 SPCCP = spill prevention control and countermeasure plan  
 SWPPP = stormwater pollution prevention plan  
 USACE = United States Army Corps of Engineers  
 USEPA = U.S. Environmental Protection Agency  
 USFWS = U.S. Fish and Wildlife Service

The final EIR/EIS (FEIR/EIS), when finalized, will be used by the Authority and Reclamation when considering approval of the Project. All cooperating agencies and other federal, State, and local agencies with permitting or approval authority over any aspect of the proposed Project are expected to use the information contained in the FEIR/EIS to meet most, if not all, of their information needs to make decisions and/or issue permits.

Acquisition of the permits and approvals identified above in Table A1-1 above and by permits/anticipated level of effort/cost in Table A1-2 will require a variety of activities (depending on permit/approval) including:

- Initial project meetings and application review and input
- Interagency and lead permitting agency coordination and negotiation
- Field reviews (including resource delineations), evaluations, data collection and evaluation

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- Biological resource surveys
- Application preparation and refinement
- GIS-based mapping
- Project facility pre-design and design
- Mitigation refinement and identification
- Hydraulic evaluation

Table A1-2 identifies the primary federal, state, and local permits and approvals and key activities anticipated associated with each. Anticipated level of effort/cost varies depending on the application requirements, necessary surveys and/or design evaluations/studies, and coordination. Level of effort and time required can vary substantially depending on agency jurisdiction, concerns, and policy. Costs for permit acquisition could in turn vary based on these factors and related agency information and survey/engineering information requests. As shown on Table A1-2, the anticipated required actions, documentation, and surveys (as appropriate) for each permit/approval are identified as separate tasks. Tasks include:

### Permit Application and Fee

This task will include all activities required to develop the actual permit applications including specific information required by a given agency according to their jurisdiction. This task will also include the required filing and processing fees.

### Project Description, Design Drawings, Maps and Figures

Activities under this task will include development of the overall project description specific to a given permit application and agency jurisdiction, as well as specifically required design drawings, maps, and figures. It is the Authority’s intent to develop a generalized detailed project description (which will be in part taken from the EIR/EIS) as a “template” that will be used for all applications and amended/revise as necessary to eliminate redundant effort and make the most efficient use of Project funds. Specific information and/or drawings will be included as required by a given agency.

### Surveys and Resources Reports

Required field reviews, surveys per specific agency protocols (e.g., wetland delineations per USACE requirements), and associated resource reports will be prepared as part of this task. Such surveys will be conducted in close coordination with the appropriate agency(s) and will be structured to address as many separate agency protocols and/or specific concerns as possible to minimize the need for additional field review and surveys. Similarly, resource reports indicating likely/observed species presence will be prepared, and will include all species and habitat observed, and acreage of impact anticipated to be impacted (temporary and permanent). Proposed minimization and mitigation measures including construction timing (both seasonal and time of day) as appropriate based on specific agency requirements and mitigation ratios will be identified.

### Pre-application Meeting Coordination, Preparation, and Participation; Follow-up Requests and On-going Communication

This task will include all required coordination effort from the initial pre-application meeting to all meetings (including phone/on-line sessions) required during the review of the specific permit applications to support obtaining final approvals. This task will also include anticipated additional



information development and clarification of project activities, operations, and potential impacts within the context of a given agency's jurisdiction.

## Anticipated Field Evaluations Requiring Substantial Level of Effort

Among the primary activities required to gain a required approval is the necessary field excavation and evaluation to support the implementation of the anticipated activities likely to be specified by the Programmatic Agreement required per Section 106 of the National Historic Preservation Act. Table A1-2 identifies the level of effort/cost anticipated to conduct anticipated excavations/evaluations that will likely be required prior to initiation of construction within the entire project area. In addition, completing the necessary activities to support the federal and state ESA consultation process will require extensive coordination, review, studies, and mitigation plan development as indicated in Table A1-2. The potential for discovery of significant resources or sites during construction is addressed separately as part of the mitigation costs assumed as part of overall project implementation.

## Anticipated Permit Application Preparation/Acquisition Schedule

Preparation of permit applications will occur concurrently with Project design. Those applications requiring sufficient project details, such as the California Department of Water Resources, Division of Safety of Dams approval of plans and specifications for the construction or enlargement of a dam or reservoir and the Central Valley Flood Protection Board encroachment permit for the proposed Delevan diversion/discharge facility. Permit application development and negotiation/acquisition is anticipated to range from a few months to over two years depending on the need for design detail as well as required information development (including surveys for some approvals) for a given permit/approval. Permit application development is anticipated to range from one month to up to one year for more complex applications. Those processes which are anticipated to potentially require multiple years of surveys (e.g., Section 106 and Section 7/Bald Eagle Preservation Act approvals) would involve longer timeframes. Permits with longer lead times due to required design detail or anticipated negotiation complexity are anticipated to take up to 2 years+ and include:

- SWRCB Water Rights
- USACE Section 404/10 Permit (and involvement in LEDPA evaluation and Section 408 approval)
- DWR Division of Safety of Dams Approval
- USFWS/NMFS/Reclamation Section 7 Endangered Species Act (ESA) Consultation (including Bald Eagle Preservation Act approval)
- CDFW California Endangered Species Act (CESA) Consultation
- Federal Energy Regulatory Commission License
- Advisory Council on Historic Preservation/State Office of Historic Preservation/Reclamation Section 106 Compliance

Permits/approvals with shorter lead times are anticipated to be those required by local counties, as well as approvals required from Caltrans and the Air Resources Board (including county approvals). Table A1-3 shows the anticipated key milestones associated with the required permitting effort.

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## Completion of Final EIR/EIS

Completion of the EIR/EIS will require the review of and response to federal, state, local agency and public comments on the document, the development of final draft, and the development of the state Notice of Determination and federal Record of Decision. It is anticipated given the scale of the proposed project, a wide range of comments from a variety of stakeholders will likely be received, some of which will likely require additional evaluation (within the bounds of the analyses included within the public draft EIR/EIS including potentially further evaluation of the proposed WSIP project operational approach).

Key tasks will include:

- Continued project team meetings and coordination with project participants
- Comment review and categorization
- Development of thematic and master responses
- Evaluation and refinement of analysis as required by comments (including operations associated with the proposed project)
- Figure and graphics revisions
- Development of administrative, pre-release, and final EIR/EIS
- Development of Notice of Determination and Findings and assistance in preparation of Record of Decision

All written and oral comments received during the public draft EIR/EIS review period will be identified, compiled, and responded to as appropriate. Comments will be categorized by similar issue area and comments requiring individual responses identified, including where thematic responses are necessary to respond to over-arching comments (if determined necessary). Responses to each comment category will be prepared with public and agency comments and responses assembled into a package clearly defining each comment and the corresponding response. All commenters and comments will be indexed according to the categorization process and tracked accordingly. An administrative final EIR/EIS will be developed that will include findings and conclusions, revisions, and clarification to the public draft EIR/EIS, the public and agency's comments and corresponding responses, and other information that may be required to adequately present technical information and data. A pre-release final EIR/EIS will be prepared in response to Authority team and participant review which will be subsequently revised as necessary to allow for issuance of the final EIR/EIS. It is assumed that the final EIR/EIS will be prepared in an errata format to the Public Draft EIR/EIS. The document will be used to support (and will be appropriately referenced) in the development of the CEQA Notice of Determination, and Findings, as well as the NEPA Record of Decision. The anticipated level of effort is estimated to be approximately \$3 million. Actual costs depend on comments, and will be less if comments are less extensive and complex than expected (or greater if a larger number of complex comments are received than expected).

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Table A1-2. Applicable Federal, State, and Local Permits and Approvals and Estimated Costs

Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
<b>Federal Agency Permits and Approvals</b>					
U.S. Army Corps of Engineers	Department of the Army Permit (Section 404 and 10)	Discharge of dredged or fill material into waters of the U.S. (including wetlands) - Section 404; Construction of any structure in or over navigable waters of the U.S., the excavation/ dredging or deposition of material in these waters, or any obstruction or alteration in navigable water - Section 10	Section 404 Clean Water Act (33 U.S.C. 1344); Section 10 of the Rivers and Harbor Act (33 U.S.C. 403)	Section 404/10 Pre-Construction Notification application package	\$3,000,000
				Project description; engineering design drawings; maps and figures	
				Aquatic resources (wetlands and waters of the U.S.) delineation, CRAM evaluation, and aquatic resources delineation report	
				Section 401 Water Quality Certification application package	
				Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	
U.S. Army Corps of Engineers	Department of the Army Permit (Section 408)	Any proposed project that may affect any existing USACE (and/or State Plan of Flood Control levee in the Central Valley and Delta)	Section 408 of the Rivers and Harbors Act (33 U.S.C. 408)	Section 408 Permit application package	\$2,500,000
				Project description; design drawings; maps and figures	
				Hydrologic and Hydraulics System Performance Analysis	
				Geotechnical Analysis	
				Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	
U.S. Army Corps of Engineers/U.S. Environmental Protection Agency	LEDPA review	Review of LEDPA for issuance of an Individual Permit (Section 404) if required. Project could be relieved of LEDPA analysis if water-dependent determination is upheld.	Section 404(b)(1)	Section 404(b)(1) application package	\$1,100,000
				Project description; design drawings; maps and figures	
				Alternatives Analysis	
				Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	
Advisory Council on Historic Preservation/ State Office of Historic Preservation	Section 106 Review and Compliance	Federal undertaking and as part of consideration of a Section 404 permit by USACE	NHPA (36 CFR 800)	Consultation meeting coordination, preparation, and participation; follow-up and ongoing communication (includes review of USBR-prepared programmatic agreement and research design)	\$40,000,000
		Complete cultural resources inventory for archaeological and built environment resources	in support of Section 106 compliance (and state regs)	record search; complete field survey; DPRs; technical reports	
		Tribal member involvement (compensation)		Tribal review and input	

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
		Tribal remains repatriation			
		Other human remains/cemetery treatment, fees, etc.			
		Evaluation of archeological and tribal cultural resources that must be addressed prior to construction (potentially NHRP-eligible resources); ethnographic studies		Evaluation excavations and ethnographic study for entire project area and proposed features	
Reclamation/ U.S. Fish and Wildlife Service/National Marine Fisheries Service	Section 7 Consultation	Required for all approvals and funding provided by Reclamation Federal undertaking and as part of consideration of a Section 404 permit by USACE Essential Fish Habitat under Magnuson-Stevens Fisheries Conservation and Management Act Fish and Wildlife Coordination Act, 16 USC 661-667e	16 U.S.C. 1531 et seq.: 50 CFR 17, Sections 17.94-17.96 ESA	Section 404 Permit application package	<b>\$7,300,000</b>
				Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication; necessary surveys (in addition to those required by USACE 404/10 and CDFW 2081 approval processes)	
				Aquatic studies to support consultation.	
				BA development assistance	
U.S. Fish and Wildlife Service	Bald Eagle Protection Act (typically addressed through Section 7 consultation)	Federal undertaking potentially impacting bald or golden eagle	16 U.S.C. 668-668d, 54 Stat. 250	Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication; necessary surveys	<b>\$1,000,000</b>
				Golden eagle satellite telemetry studies	
U.S. Coast Guard	Navigability determination	Determination if proposed activities potentially affect river navigation	33 CFR 2.40	Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication	<b>\$50,000</b>
Bureau of Reclamation	Warren Act Contract	Storage and transportation of non-CVP water supplies through CVP water facilities	42 CFR 523	Consultation meeting coordination, modeling, preparation, and participation; follow-up requests and ongoing communication	<b>\$400,000</b>
Federal Energy Regulatory Commission	Hydropower License	Authorizes the construction and operation of a hydroelectric project for a term of up to 50 years	Federal Power Act – 16 U.S.C. 791(a)-825r	FERC Pre-Application Document	<b>\$8,000,000</b>
				FERC Hydropower License (ILP) application package	
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
<b>State Agency Permits and Approvals</b>					
California Department of Transportation	Encroachment Permits	Use of California rights-of-way for installation of pipelines along State freeways and roads	21 CCR 14.11.1–14.11.6	CalTrans Encroachment Permit application package and fee	<b>\$400,000</b>
				Project description; design drawings; maps and figures	
				Biological resources reconnaissance survey and biological assessment	
				Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources delineation report	
				Cultural resources literature search, pedestrian survey, and archaeological reconnaissance report	
Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication					
California Department of Transportation	Transportation Permit	Transport of heavy or oversized loads on State roads during construction	California Vehicle Code Section 35780; California Streets and Highway Code 117, 660–711	CalTrans Annual Transportation Permit application package (9 required throughout duration of construction) and fee	<b>\$250,000</b>
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
California State Lands Commission	Land Use Lease	Placement of fill or structures in navigable waterways or Section 16 or 36 lands (Water intake structures are typically exempt from this process but outfall may require approval)	California Public Resources Code Section 6000 et. seq.	State Lands Commission Lease application package (including survey information) and fee	<b>\$300,000</b>
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
				Following acquisition of lease: as-built drawings; surveys; internal and external inspection program, including structural evaluation and integrity assessment.	
Central Valley Flood Protection Board	Encroachment Permit	Encroachment onto/through state flood control facilities.	23 CCR encroachment permit	CVFPB Encroachment Permit 3615 and 3615a application package (including required mapping and deeds) and fee	<b>\$900,000</b>
				Project description; design drawings; maps and figures	
				Hydrologic and Hydraulics System Performance Analysis	
				Section 408 Permit application package	
				Local Maintaining Agency endorsement and concurrence with USACE	
Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication					

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
State Water Resources Control Board	Water Rights Permit	Diversion of water from existing streamflow	California Water Code § 5101	Water Rights Permit application package (including fee)	\$6,000,000
				Water Availability Analysis	
				Project description; design drawings; maps and figures; operations modeling; cooperative operations coordination	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
				Water Rights Hearings	
State Water Resources Control Board and Regional Water Quality Control Boards	General Construction Stormwater National Pollution Discharge Elimination System Permit	All stormwater discharges when clearing, grading, and excavation result in a land disturbance of 5 or more acres	CWA	Construction General Permit application package and fee	\$800,000
				Project description; design drawings; maps and figures	
				Stormwater Pollution Prevention Plan	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
State Water Resources Control Board and Regional Water Quality Control Boards	Waste Discharge Requirements	Discharge of reclaimed water on land and to groundwater	Porter-Cologne Water Quality Act	Waste Discharge application package and fee	\$250,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
State Water Resources Control Board and Regional Water Quality Control Boards	Section 401 Water Quality Certification	Discharge of fill materials to waters of the U.S.	CWA	Section 401 Water Quality Certification application package and fee	\$1,000,000
				Project description; design drawings; maps and figures	
				Biological resources reconnaissance survey and biological assessment	
				Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources delineation report	
				Section 404 Pre-Construction Notification application package	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
California Department of Water Resources, Division of Safety	Approval of Plans and Specifications for the Construction or Enlargement of a	Dam or reservoir construction or enlargement	California Water Code Division 3, Dams and Reservoirs Parts 1 and 2	Approval of Plans and Specifications for the Construction or Enlargement of a Dam or Reservoir application package and fee (\$5 million fee) - total of 14 structures subject to DSOD requirements	\$6,600,000
				Project description; design drawings; maps and figures	

STATUS: FINAL

PURPOSE: EARLY FUNDING A1

CAVEAT:

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PREPARER: M OLIVER

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
of Dams	Dam or Reservoir			Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
California Occupational Safety and Health Administration	Permit for Buildings/ Structures, Scaffolding/ Falsework, Demolition, Trenches/ Excavations	Construction of trenches or excavations 5 feet or deeper and into which a person is required to descend. Construction or demolition of any building, structure, scaffolding, or falsework more than 3 stories high. The underground use of diesel engines in working mines and tunnels.	California Labor Code Section 6500	Buildings/Structures, Scaffolding/Falsework, Demolition, Trenches/Excavations Permit application package and fee	\$250,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
California Department of Fish and Wildlife	Streambed Alteration Agreement	Crossing of streams, rivers, or lakes (also for reservoirs, which interrupt streams)	Sections 1601–1603 of the California Fish and Game Code	Lake and Streambed Alteration Agreement Notification Package and fee	\$800,000
				Project description; design drawings; maps and figures	
				Biological resources reconnaissance survey and biological assessment	
				Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources delineation report	
				Hydrologic and Hydraulics System Performance Analysis	
Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication					
California Department of Fish and Wildlife	Section 2081 Incidental Take Permit	Potential adverse effects on State-listed endangered or threatened species or species proposed for State listing. Incidental take of State-protected species by a non-state entity.	Section 2081 California Fish and Game Code	Sections 2081 (b) and (c) Incidental Take Permit application package and fee	\$2,700,000
				Project description; design drawings; maps and figures (Separate GIS maps assumed)	
				Biological resources reconnaissance survey (assume CDFW protocol)	
				Mitigation Monitoring and Reporting Plan	
Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication					
NAHC/Local Tribes	AB 52 Consultations	Effects on tribal cultural resources	PRC 21080.3.1	Consultation meetings; coordination; development of mitigation measures	\$500,000

STATUS: FINAL

PURPOSE: EARLY FUNDING A1

CAVEAT:

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
State Office of Historic Preservation	See Advisory Council on Historic Preservation under USACE	Potential adverse effects on State unique archaeological sites and historical resources	PRC 21083.2 & PRC 21084.1	Consultation meeting coordination, preparation, and participation; follow-up and ongoing communication	\$300,000
<b>Local Agency Permits and Approvals</b>					
Colusa and Glenn County Air Pollution Control Districts	Authority to Construct, Permit to Operate, and Notification of Operation	Construction or operation of any non-exempt source of air contaminants; typically limited to stationary sources.	New Source Review regulations; Clean Air Act; New Source Review regulations; Clean Air Act; Glenn County Air Pollution Control District Article III, Sections 50 to 57; Colusa County Air Pollution Control District Regulation III, Rules 3.1 to 3.18.	Authority to Construct, Permit to Operate, and Notification of Operation application packages and fees (for each county)	\$200,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication, including annual inspection approach follow-up requests and communication	
Colusa and Glenn County Public Works Departments	Encroachment Permit	Use of local jurisdictions right-of-way to install pipeline across roadways	County ordinances	Encroachment Permit application packages and fees (for each county)	\$125,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
Colusa and Glenn County Public Works Departments	Transportation Permit	Transport of heavy or oversized loads on county roads	County ordinances	Transportation Permit application packages and fees (for each county)	\$150,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
Colusa and Glenn County Public Works Departments	Building Permit, Street Improvement Permit, and Grading Permit	Construction activities within the county	Uniform Building Codes, as adopted	Building Permit, Street Improvement Permit, and Grading Permit application packages and fees (for each county)	\$200,000
				Project description; design drawings; maps and figures	
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
Colusa County Planning Department	General Plan Amendments, and/or Zoning Amendments	Changes to zoning or General Plan designations	County Zoning Code and General Plan	Major Use Permits, Tentative Parcel Maps, Tentative Subdivision Maps, General Plan Amendments, and/or Zoning Amendments application package and fee	\$100,000
				Project description; design drawings; maps and figures	

STATUS: FINAL

PURPOSE: EARLY FUNDING A1

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Agency	Type of Permit or Approval	Regulated Activity	Authority	Required Actions, Documentation, and Surveys	Total Level of Effort
				Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	
Estimated Cost for Permits and Approvals (includes associated required engineering drawings/information)					<b>\$85,175,000</b>
Project Management/Oversight/Review (assume 15%)					<b>\$12,776,000</b>
<b>SUBTOTAL</b>					<b>\$97,951,000</b>
<i>Sites Project Authority/U.S. Bureau of Reclamation</i>	<i>Completion of Final EIR/EIS</i>	<i>Potential impacts to the environment associated with a state, local, or federal action/project</i>	<i>PRC Section 21000 et seq./Public Law 91-190, 42 U.S.C. 4321-4347 as amended</i>	<i>Review and respond to comments</i>	<b>\$3,000,000</b>
				<i>Conduct quantitative analysis (e.g., modeling)</i>	
				<i>Prepare final EIS/EIR, meeting coordination, preparation, and participation; follow-up requests and ongoing communication</i>	
Sunk Costs (Draft EIR/S – excludes all WSIP application support)					<b>\$2,400,000</b>
<b>TOTAL</b>					<b>\$103,351,000</b>

STATUS: FINAL

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Table A1-3. Applicable Federal, State, and Local Permits and Approvals Acquisition Timeframes/Schedule (June 2018 Start Date Assumed)

Agency	Type of Permit or Approval	Required Actions, Documentation, and Surveys	Duration (Months)	Total Task Duration (Months/ Anticipated Completion Date)
<b>Federal Agency Permits and Approvals</b>				
U.S. Army Corps of Engineers	Department of the Army Permit (Section 404 and 10)	Section 404/10 Pre-Construction Notification application package	3	24 (June 2020)
		Project description; engineering design drawings; maps and figures	6	
		Aquatic resources (wetlands and waters of the U.S.) delineation, CRAM evaluation, and aquatic resources delineation report	9	
		Section 401 Water Quality Certification application package	0	
		Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	24	
U.S. Army Corps of Engineers	Department of the Army Permit (Section 408)	Section 408 Permit application package	9	24 (June 2020)
		Project description; design drawings; maps and figures	8	
		Hydrologic and Hydraulics System Performance Analysis	9	
		Geotechnical Analysis	9	
		Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	24	
U.S. Army Corps of Engineers/U.S. Environmental Protection Agency	LEDPA review	Section 404(b)(1) application package	6	18 (January 2020)
		Project description; design drawings; maps and figures	6	
		Alternatives Analysis	6	
		Pre-application meeting coordination, preparation, and participation; follow-up and ongoing communication	18	
Advisory Council on Historic Preservation/ State Office of Historic Preservation	Section 106 Review and Compliance	Consultation meeting coordination, preparation, and participation; follow-up and ongoing communication (includes review of USBR-prepared Programmatic Agreement [PA] and research design)	36	36 (June 2021 receive final PA; necessary excavations continue based on approved research design in PA)
		Record search; complete initial field survey; DPRs; technical reports	24	
		Tribal review and input	36	
		Evaluation excavations and ethnographic study for entire project area and proposed features	36	
Reclamation/U.S. Fish and Wildlife Service/National Marine Fisheries Service	Section 7 Consultation	Section 404 Permit application package	0	24 (June 2020)
		Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication; necessary surveys (in addition to those required by USACE 404/10 and CDFW 2081 approval processes)	24	
		BA development assistance	12	
U.S. Fish and Wildlife Service	Bald Eagle Protection Act (typically addressed through Section 7 consultation)	Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication; necessary surveys	24	24 (June 2020)
		Golden eagle satellite telemetry studies	24	
U.S. Coast Guard	Navigability	Consultation meeting coordination, preparation, and participation; follow-up requests	9	9 (March 2019)

STATUS: FINAL

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Agency	Type of Permit or Approval	Required Actions, Documentation, and Surveys	Duration (Months)	Total Task Duration (Months/ Anticipated Completion Date)
	determination	and ongoing communication		
Bureau of Reclamation	Warren Act Contract	Consultation meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	18 (January 2020)
Federal Energy Regulatory Commission	Hydropower License	FERC Pre-Application Document	4	120 (June 2028)
		FERC Hydropower License (ILP) application package	12	
		Project description; design drawings; maps and figures	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	12	
<b>State Agency Permits and Approvals</b>				
California Department of Transportation	Encroachment Permits	CalTrans Encroachment Permit application package and fee	0	18 (January 2020)
		Project description; design drawings; maps and figures	6	
		Biological resources reconnaissance survey and biological assessment	0	
		Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources delineation report	0	
		Cultural resources literature search, pedestrian survey, and archaeological reconnaissance report	0	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
California Department of Transportation	Transportation Permit	CalTrans Annual Transportation Permit application package (9 required throughout duration of construction) and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
California State Lands Commission	Land Use Lease	State Lands Commission Lease application package (including survey information) and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	12	
		Following acquisition of lease: as-built drawings; surveys; internal and external inspection program, including structural evaluation and integrity assessment.	18	
Central Valley Flood Protection Board	Encroachment Permit	CVFPB Encroachment Permit 3615 and 3615a application package (including required mapping and deeds) and fee	9	24 (June 2020)
		Project description; design drawings; maps and figures	9	
		Hydrologic and Hydraulics System Performance Analysis	12	
		Section 408 Permit application package	12	
		Local Maintaining Agency endorsement and concurrence with USACE	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	24	

STATUS: FINAL

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Agency	Type of Permit or Approval	Required Actions, Documentation, and Surveys	Duration (Months)	Total Task Duration (Months/ Anticipated Completion Date)
State Water Resources Control Board	Water Rights Permit	Water Rights Permit application package (including fee)	12	36 (June 2021)
		Water Availability Analysis	12	
		Project description; design drawings; maps and figures; operations modeling; cooperative operations coordination	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	24	
		Water Rights Hearings	12	
State Water Resources Control Board and Regional Water Quality Control Boards	General Construction Stormwater National Pollution Discharge Elimination System Permit	Construction General Permit application package and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Stormwater Pollution Prevention Plan	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
State Water Resources Control Board and Regional Water Quality Control Boards	Waste Discharge Requirements	Waste Discharge application package and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
State Water Resources Control Board and Regional Water Quality Control Boards	Section 401 Water Quality Certification	Section 401 Water Quality Certification application package and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Biological resources reconnaissance survey and biological assessment	0	
		Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources delineation report	0	
		Section 404 Pre-Construction Notification application package	0	
Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18			
California Department of Water Resources, Division of Safety of Dams	Approval of Plans and Specifications for the Construction or Enlargement of a Dam or Reservoir	Approval of Plans and Specifications for the Construction or Enlargement of a Dam or Reservoir application package and fee (\$5 million fee)	48	48 (August 2021)
		Project description; design drawings; maps and figures	18	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	36	
California Occupational Safety and Health Administration	Permit for Buildings/ Structures, Scaffolding/ Falsework, Demolition, Trenches/ Excavations	Buildings/Structures, Scaffolding/Falsework, Demolition, Trenches/Excavations Permit application package and fee	9	18 (January 2020)
		Project description; design drawings; maps and figures	9	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
California Department of Fish and Wildlife	Streambed Alteration Agreement	Lake and Streambed Alteration Agreement Notification Package and fee	9	24 (June 2020)
		Project description; design drawings; maps and figures	9	
		Biological resources reconnaissance survey and biological assessment	18	
		Aquatic resources (wetlands and waters of the U.S.) delineation and aquatic resources	18	

STATUS: FINAL

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Agency	Type of Permit or Approval	Required Actions, Documentation, and Surveys	Duration (Months)	Total Task Duration (Months/ Anticipated Completion Date)
		delineation report		
		Hydrologic and Hydraulics System Performance Analysis	0	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	24	
California Department of Fish and Wildlife	Section 2081 Incidental Take Permit	Sections 2081 (b) and (c) Incidental Take Permit application package and fee	12	24 (June 2020)
		Project description; design drawings; maps and figures (Separate GIS maps assumed)	12	
		Biological resources reconnaissance survey (assume CDFW protocol)	18	
		Mitigation Monitoring and Reporting Plan	18	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	24	
NAHC/Local Tribes	AB 52 Consultations	Consultation meetings; coordination; development of mitigation measures	24	24 (June 2020)
State Office of Historic Preservation	See Advisory Council on Historic Preservation under USACE	Consultation meeting coordination, preparation, and participation; follow-up and ongoing communication	24	24 (June 2020)
<b>Local Agency Permits and Approvals</b>				
Colusa and Glenn County Air Pollution Control Districts	Authority to Construct, Permit to Operate, and Notification of Operation	Authority to Construct, Permit to Operate, and Notification of Operation application packages and fees (for each county)	12	18 (January 2020)
		Project description; design drawings; maps and figures	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication, including annual inspection approach follow-up requests and communication	18	
Colusa and Glenn County Public Works Departments	Encroachment Permit	Encroachment Permit application packages and fees (for each county)	6	12 (June 2019)
		Project description; design drawings; maps and figures	6	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	12	
Colusa and Glenn County Public Works Departments	Transportation Permit	Transpiration Permit application packages and fees (for each county)	12	18 (January 2020)
		Project description; design drawings; maps and figures	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
Colusa and Glenn County Public Works Departments	Building Permit, Street Improvement Permit, and Grading Permit	Building Permit, Street Improvement Permit, and Grading Permit application packages and fees (for each county)	12	18 (January 2020)
		Project description; design drawings; maps and figures	12	
		Pre-application meeting coordination, preparation, and participation; follow-up requests and ongoing communication	18	
Colusa County Planning Department	General Plan Amendments, and/or Zoning Amendments	Major Use Permits, Tentative Parcel Maps, Tentative Subdivision Maps, General Plan Amendments, and/or Zoning Amendments application package and fee	12	18 (January 2020)
		Project description; design drawings; maps and figures	12	
		Pre-application meeting coordination, preparation, and participation; follow-up	18	

STATUS: FINAL  
PURPOSE: EARLY FUNDING A1  
CAVEAT:  
NOTES:

PREPARER: M OLIVER  
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Agency	Type of Permit or Approval	Required Actions, Documentation, and Surveys	Duration (Months)	Total Task Duration (Months/ Anticipated Completion Date)
		requests and ongoing communication		
Sites Project Authority/U.S. Bureau of Reclamation	Completion of Final EIR/EIS	Review and respond to comments	5	10 months (from receipt of public comments)
		Conduct quantitative analysis (e.g., modeling - concurrent with response to comments))	5	
		Prepare final EIS/EIR, meeting coordination, preparation, and participation; follow-up requests and ongoing communication	5	

Notes:

AB = Assembly Bill  
 BA = Biological Assessment  
 CCR = California Code of Regulations  
 CDFW = California Department of Fish and Wildlife  
 CFR = Code of Federal Regulations  
 CRAM = California Rapid Assessment Method  
 CVFPB = Central Valley Flood Protection Board  
 CWA = Clean Water Act  
 DPR = Department of Parks and Recreation  
 DSOD = Divisions of Safety of Dam  
 EIR = Environmental Impact Report  
 EIS = Environmental Impact Statement  
 FERC = Federal Energy Regulating Commission  
 GIS = Geographic Information System  
 ILP = Integrated Licensing Process  
 LEDPA = Least Environmentally Damaging Practicable Alternative  
 NAHC = Native American Heritage Commission  
 NHPA = National Historic Preservation Act  
 NHRP = National Register of Historic Places  
 PRC = Public Resources Code  
 U.S.C. = United States Code  
 USACE = United States Army Corps of Engineers  
 USBR = U.S. Bureau of Reclamation  
 WSIP = Water Storage Investment Program

STATUS: FINAL  
 PURPOSE: EARLY FUNDING A1  
 CAVEAT:  
 NOTES:

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