

EXHIBIT C

Mitigation Monitoring and Reporting Program

Mitigation Monitoring and Reporting Program

Small Erosion Repair Program



SCH#2009112088

Prepared for:



AECOM

December 2013

Mitigation Monitoring and Reporting Program
Small Erosion Repair Program



SCH#2009112088

Prepared for:

California Department of Water Resources
Division of Flood Management
Flood Maintenance Office
3310 El Camino Avenue, Suite 10
Sacramento, CA 95821

Contact:

Jeff Schuette
916/574-1355

Prepared by:

AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Contact:

Andrea Shephard
916/414-5800

AECOM

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INTRODUCTION

The California Department of Water Resources (DWR) prepared a program environmental impact report (PEIR) to provide the public and responsible and trustee agencies with information about the potential environmental effects associated with the construction and operation of the Small Erosion Repair Program (SERP). The PEIR concludes that implementation of the SERP would generate potentially significant adverse environmental impacts to the physical environment. For all potentially significant impacts, the PEIR prescribes feasible mitigation that would reduce these impacts to less-than-significant levels.

The California Environmental Quality Act Guidelines (CEQA Guidelines) Section 21081.6(a) requires public agencies “to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” A Mitigation Monitoring and Reporting Program (MMRP) is required for the proposed project because the PEIR identifies potentially significant adverse impacts related to project implementation, and mitigation measures have been identified to reduce those impacts. Adoption of the MMRP would occur along with certification of the PEIR and approval of the proposed project.

MITIGATION MONITORING AND REPORTING PROGRAM

This MMRP has been prepared to ensure that all required mitigation measures are implemented and completed in a satisfactory manner before, during, and after project construction. The MMRP may be modified by DWR during project implementation, as necessary, in response to changing conditions or other project, engineering, and design refinements. Table B-1 has been prepared to assist the responsible parties in implementing the mitigation measures. The table lists the applicable mitigation measures that will be subject to mitigation monitoring and reporting and includes the responsible party and implementation timing for each measure. The numbering of mitigation measures follows the numbering sequence found in the PEIR. Generally, construction projects will be monitored before, during, and after construction. Reports compiling this information will be prepared periodically.

In addition, conservation measures for the SERP have been developed in coordination with the agencies represented on the SERP Subcommittee (see Section I of the SERP Manual). Measures have been identified that would be applicable to all SERP project sites, including timing restrictions to avoid work during important times for various special-status species, measures to avoid vegetation and habitat disturbance, hazard prevention measures, erosion control measures, and other mandatory construction measures. The conservation (avoidance and minimization) measures in the SERP Manual are mandatory and will be included as conditions of approval for SERP repairs. The conservation measures are a critical component of the proposed project analyzed under CEQA in the PEIR, and are intended to function as mitigation measures under CEQA. Table B-2 lists the conservation measures that will also be

subject to mitigation monitoring and reporting, and includes the responsible party and implementation timing for each of these measures.

Table MMRP-1 Mitigation Monitoring and Reporting Program for SERP Mitigation Measures			
DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
3.2 Air Quality and Climate Change			
Impact 3.2-1: Construction-Related Emissions that Could Exceed Local Thresholds of Significance	<p>Mitigation Measure 3.2-1: Implement Applicable Air District-Recommended Mitigation Measures for Particulate Matter and Exhaust Emissions.</p> <p>DWR will incorporate the following measures to reduce exhaust emissions and emissions of fugitive dust (PM₁₀ and PM_{2.5}) during construction activities:</p> <ul style="list-style-type: none"> Comply with applicable air district rules and regulations that pertain to construction activities (e.g., asphalt reactive organic gases [ROG] requirements, administrative requirements, and fugitive dust management practices). As applicable, implement construction-related requirements from air districts or local governments with authority over the project at the commencement of and during each construction activity. When using barges to deliver materials to a project site, DWR will enter into an agreement with SMAQMD to pay an off-site mitigation fee for the portion of construction-generated emissions of NO_x that exceed SMAQMD's daily emissions threshold of 85 lbs/day. The calculation of the fee shall be determined annually in coordination with the SMAQMD and paid within 30 days (or a different time that might be negotiated) of the occurrence of construction-related activities. Do not use open burning to dispose of any excess 	DWR and contractors	During construction

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DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>materials generated during site preparation or other project activities.</p> <ul style="list-style-type: none"> • Schedule construction truck trips during nonpeak traffic hours to reduce peak-hour emissions and traffic congestion to the extent feasible. • Follow air pollution regulations, which includes the use of diesel-powered construction equipment and equipment idle times, that meet CARB's 1996 or newer certification standard for in-use off-road heavy-duty diesel engines [California Code of Regulations: (article 4.8, chapter 9, division 3 of title 13)]. • Maintain all construction equipment in proper working condition and perform all preventative maintenance. Required maintenance includes compliance with all manufacturer's recommendations, proper upkeep and replacement of filters and mufflers, and maintenance of all engine and emissions systems in proper operating condition. • Check all tires and maintain for proper inflation. 		
3.4 Cultural Resources			
Impact 3.4-1: Potential Impacts on Identified Cultural Resources	Mitigation Measure 3.4-1: Comply with the PA Prepared by USACE, SHPO, and DWR and/or Otherwise Comply with Section 106; Consult with Stakeholders as Required under Section 106 and/or a PA; Perform Site-specific Technical Studies to Identify and Evaluate Cultural Resources; and Implement Avoidance or Treatment Protocols as Necessary to the Extent Feasible.	DWR and contractors	Prior to construction

<p align="center">Table MMRP-1 Mitigation Monitoring and Reporting Program for SERP Mitigation Measures</p>			
DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>Management of cultural resources for the SERP would be performed under a Programmatic Agreement (PA) prepared by the U.S. Army Corps of Engineers (USACE), and/or otherwise in compliance with the standard section 106 process. DWR will perform technical studies and treatment required to identify and manage impacts on cultural resources subject to the input of stakeholders and the approval of USACE and the State Historic Preservation Officer (SHPO). Management of cultural resources required under CEQA would be combined with the management protocols stipulated in the PA and/or otherwise during section 106 consultation. Prior to implementation of individual small erosion repair activities, DWR will perform the following steps:</p> <ul style="list-style-type: none"> • conduct an inventory of the individual small erosion repair site and define an area of potential effects as required under Section 106 of the National Historic Preservation Act (NHPA); • evaluate identified resources eligible for listing in the National Register of Historic Places (NRHP) and California Register of Historic Resources (CRHR); • consult with Senior Staff Counsel at the California State Lands Commission (CSLC) should any cultural resources on state lands be discovered during construction of any of the SERP projects; • determine if the proposed activity would result in significant impacts on resources eligible for the CRHR or adverse effects on historic properties 		

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DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>within the meaning of section 106;</p> <ul style="list-style-type: none"> • resolve significant impacts either by developing resource-specific treatment protocols or by selecting and implementing treatment measures from a palette of treatment protocols developed pursuant to the PA; and • consult with stakeholders and consulting parties in accordance with section 106 requirements and/or the PA, as applicable, such as the SHPO. The inventory, evaluation, and selection of treatment will include a review of relevant local land use policies regarding cultural resources. <p>DWR will employ methods for inventory efforts and consultation that are appropriate for the sensitivity of the individual small erosion repair site and the probable resources that may occur. Such methods may include geomorphological studies, subsurface testing, and consultation with appropriate Native American organizations and representatives (for example in the identification of traditional cultural properties [TCPs]).</p> <p>Inventory efforts shall include consulting CSLC's shipwreck database to gather information on known and potential vessels located on the State's tide and submerged lands. Abandoned shipwrecks, archaeological sites and historic or cultural resources on or in the tide and submerged lands of California is vested in the State and is under the jurisdiction of CSLC, although CSLC's jurisdiction does not negate the responsibilities of DWR or the USACE for compliance</p>		

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DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>with CEQA and with section 106, respectively.</p> <p>As necessary, specific technical studies prepared for individual small erosion repairs will define important historic themes relevant to individual repair sites.</p> <p>Mitigation efforts will include, when feasible, avoidance of the resource rather than data recovery excavations or other work that would require disturbance of the deposit.</p>		
3.4-3: Impacts on Previously Unidentified Cultural Resources	<p>Mitigation Measure 3.4-3: Train Construction Workers before Construction Begins, Monitor Construction Activities, Stop Potentially Damaging Activities, Evaluate Discovery(ies), and Resolve Adverse Effects on Significant Resources.</p> <p>DWR will implement the following measures to minimize potential impacts on previously undiscovered cultural resources:</p> <ul style="list-style-type: none"> • Every 2 years or before construction begins, construction crews will be given a presentation and training session incorporated into the environmental awareness training before performing work in areas sensitive for previously unidentified resources so that they can assist with identifying undiscovered cultural resource materials and avoid them where possible. • A DWR archaeologist, where appropriate, will monitor all ground-disturbing construction activities at locations determined to be sensitive for unidentified cultural resources. If a previously unidentified archaeological resource is uncovered during construction, construction activities will be 	DWR and contractors	Prior to and during construction

Table MMRP-1 Mitigation Monitoring and Reporting Program for SERP Mitigation Measures			
DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>halted within 100 feet of the find and USACE, and other appropriate parties, will be notified regarding the discovery.</p> <ul style="list-style-type: none"> • Consult with Senior Staff Counsel at CSLC should any cultural resources on state lands be discovered during construction of any of the SERP projects. • DWR will then consult with USACE and the SHPO to determine the eligibility of the resource for listing in the NRHP or qualification as a unique archaeological resource. If DWR and USACE, in consultation with the SHPO, concur that the resource is eligible for listing and the project may result in adverse effects or significant impacts on the resource, DWR either will implement one of the treatment protocols developed under the PA for the resource or will prepare a resource-specific treatment plan. <p>Work may only resume when either all necessary treatment has been performed under the treatment method selected, or approved by the appropriate entity, or construction in the vicinity of the resource will not result in adverse effects or encroach within an appropriate distance from the known boundaries of the resource or the boundaries of the resource.</p>		
3.4-4: Impacts on Previously Unidentified Human Remains	Mitigation Measure 3.4-4: Stop Work in the Event of a Discovery of Human Remains, Notify the Applicable County Coroner and Most Likely Descendant, and Treat Remains in Accordance with State Law and Measures Stipulated in the Programmatic	DWR and contractors	During construction

<p align="center">Table MMRP-1 Mitigation Monitoring and Reporting Program for SERP Mitigation Measures</p>			
DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>Agreement Prepared by USACE and the SHPO.</p> <p>DWR will ensure that the following measures are implemented to address the potential discovery of human remains during construction:</p> <ul style="list-style-type: none"> • If human remains are uncovered during ground-disturbing activities, all ground-disturbing activities will cease within an appropriate radius of the find. DWR will notify the county coroner of the county in which the remains are uncovered and a professional archaeologist to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she will contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (Health and Safety Code section 7050[c]). The NAHC will designate a most likely descendant (MLD) to dispose of the remains with appropriate dignity (California Public Resources Code section 5097.98). • After a determination that the remains are of prehistoric Native American origin, DWR will coordinate with the MLD for reburial of the remains and associated grave goods in an appropriate location. If, within 48 hours, the MLD fails to make a recommendation or reinter the remains, DWR will 		

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	<p>coordinate with the landowner to reinter the remains in a location not subject to further disturbance as provided for in California Public Resources Code section 5097.98.</p> <ul style="list-style-type: none"> The discovery of prehistoric burials often reveals locations sensitive for the occurrence of additional archaeological material. After the initial discovery and management of human remains, a professional archaeologist working on behalf of DWR will record the site with the NAHC and the appropriate information center and, if possible, use project features to protect the site from future disturbance. 		
3.7 Noise			
3.7-1: Increase in Temporary Noise Levels from Construction Activities	<p>Mitigation Measure 3.7-1: Implement Measures to Reduce Temporary Noise Levels from SERP Construction.</p> <p>DWR will implement the following measures during construction activities:</p> <ul style="list-style-type: none"> DWR will require construction contractors, and/or DWR maintenance yard crews to properly maintain and equip construction equipment with noise controls, such as mufflers, in accordance with manufacturers' specifications. To the greatest extent feasible, construction outside of normal construction hours will be minimized or avoided completely when located in the vicinity of noise-sensitive receptors. Except under extreme circumstances (as in the case 	DWR and contractors	During construction

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DPEIR Section and Impact(s)	Mitigation Measure	Responsible Party	Implementation Timing
	<p>where a repair must be completed within a specific work window due to species or flood season requirements), construction activities will be limited to normal construction hours or hours identified in applicable local noise regulations.</p> <p>In locations where the erosion site would have a direct line of sight to sensitive receptors, on-site equipment and stockpiles will be strategically placed where feasible to block the line of sight (and thus the direct transmission of noise) from noise source to receptor.</p>		
Chapter 5 Other CEQA-Required Sections			
Construction-Generated Greenhouse Gas Emissions	<p>Mitigation Measure 5-1: Implement Pre-Construction, Final Design, and Construction BMPs.</p> <p>Pre-construction and final design best management practices (BMPs) are designed to ensure that individual projects are evaluated and their unique characteristics are taken into consideration when determining whether specific equipment, procedures, or material requirements are feasible and efficacious for reducing greenhouse gas (GHG) emissions from a project. In addition to mitigation measures defined above, the following BMPs will be applied as applicable and appropriate:</p> <ul style="list-style-type: none"> BMP 1. Evaluate project characteristics, including location, project work flow, site locations, and equipment performance requirements, to determine whether specifications for the use of equipment with repowered engines, electric drive trains, or other high-efficiency technologies are 	DWR and contractors	Prior to and during construction

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	<p>appropriate and feasible for the project or specific elements of the project.</p> <ul style="list-style-type: none"> • BMP 2. Evaluate the feasibility and efficacy of performing on-site material hauling with trucks equipped with on-road engines. • BMP 3. Coordinate opportunities to carpool to the construction site. • BMP 4. Reduce electricity use in temporary construction offices by using high-efficiency lighting and requiring that heating and cooling units be Energy Star compliant. Require that all contractors develop and implement procedures for turning off computers, lights, air conditioners, heaters, and other equipment each day at close of business. • BMP 5. For deliveries to project sites where the haul distance exceeds 100 miles and a heavy-duty class 7 or class 8 semi-truck or 53-foot or longer box-type trailer is used for hauling, a SmartWay certified truck will be used to the maximum extent feasible. • BMP 6. Recycle construction debris to reduce construction waste. • BMP 7. Maintain all construction equipment in proper working condition and perform all preventative maintenance. Required maintenance includes compliance with all manufacturer's recommendations, proper upkeep and replacement of filters and mufflers, and maintenance of all engine and emissions systems 		

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	<p>in proper operating condition. Maintenance schedules shall be detailed in an Air Quality Control Plan prior to commencement of construction.</p> <ul style="list-style-type: none"> BMP 8. Implement tire inflation program on jobsite to ensure that equipment tires are correctly inflated. Check tire inflation when equipment arrives on-site and every two weeks for equipment that remains on-site. Check vehicles used for hauling materials off-site weekly for correct tire inflation. Procedures for the tire inflation program shall be documented in an Air Quality Management Plan prior to commencement of construction. 		

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
Mandatory Conservation Measures to be Applied to all SERP Projects			
Timing			
CM-1	<p>The following timing restrictions apply to SERP projects within Regions 1–4 as defined below:</p> <p>Region 1: Delta-Sacramento River and Major Tributaries, River Mile (RM) 0 to RM 60 Major tributaries include:</p> <ul style="list-style-type: none"> • Putah Creek • Sacramento Bypass • Portions of Sacramento River downstream of RM 60 • Yolo Bypass, as identified in Figure A1 <p>Region 2: Mainstem Sacramento River and major tributaries, RM 60 to RM 143 Major tributaries include:</p> <ul style="list-style-type: none"> • Butte Creek • Cherokee Canal • Colusa Bypass • Northern portion of Colusa Main Drain, as identified in Figure A1 • Portions of Feather River, as identified in Figure A1 • Portions of Sacramento River between RM 60 and 143 • Sutter Bypass • Tisdale Bypass • Wadsworth Canal • East and West Interceptor Canals 	DWR and contractors	During construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
	<p>Region 3: Upper Sacramento and major tributaries, RM 143 to RM 194 Major tributaries include:</p> <ul style="list-style-type: none"> • Portions of Sacramento River between RM 143 and RM 194 <p>Region 4: Non-anadromous SERP waterways, including:</p> <ul style="list-style-type: none"> • Willow Slough Bypass • Cache Creek, from the Yolo Bypass to the upstream limit of the Sacramento River Flood Control Project levees 		
CM-1(a)	<p>Region 1 Timing Restrictions: All in-water construction will occur from August 1 to November 30. The time period for completing work outside the active stream channel is April 15 to October 15 (dates determined by SERP agency collaboration).</p>	DWR and contractors	During construction
CM-1(b)	<p>Region 2 Timing Restrictions: All in-water construction will occur from July 1 to October 15. With rare exception, no extensions will be granted on this timing window. The time period for completing work outside the active stream channel is April 15 to October 15 (dates determined by SERP agency collaboration).</p>	DWR and contractors	During construction
CM-1(c)	<p>Region 3 Timing Restrictions: All in-water construction will occur from July 1 to August 31. The time period for completing work outside the active stream channel is April 15 to October 15 (dates determined by SERP agency collaboration).</p>	DWR and contractors	During construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-1(d)	<p>Region 4 Timing Restrictions: All in-water construction will occur from April 15 to October 1. The time period for completing work outside the active stream channel is April 15 to October 15 (dates determined by SERP agency collaboration). Note: For projects occurring within 200 feet of drainage or irrigation canals that may support giant garter snake (GGS), conservation measure GGS-6, which stipulates that all project work be completed May 1 to October 1, may be applicable, as determined through coordination with U.S. Fish and Wildlife Service (USFWS).</p>	DWR and contractors	During construction
CM-1(e)	<p>Flood Season Timing Restrictions: All work within the floodway will occur from April 15 to November 1. The Board, on prior written request, may allow work to be done during flood season, within the floodway, provided that in the judgment of the Board, forecasts for weather and river conditions are favorable. For the SERP, this written request may be in the form of an e-mail request.</p> <p>Revegetation and erosion control work that do not involve the use of heavy equipment are not confined to the above timing windows.</p>	DWR, Board, and contractors	Prior to and during construction
CM-2	<p>Timing Extensions for CM-1(a)–(d): Requests for extensions on the above timing windows may be considered by the SERP agencies on a project-by-project basis upon written request from DWR. Requests for timing extensions must include a justification for the request, and any additional information deemed necessary by the agencies. Modifications to the established timing windows may be made only with written concurrence from the SERP agencies.</p>	DWR, SERP agencies, and contractors	Prior to construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-3	Construction activities will be timed to avoid precipitation and increases in stream flow. If there is a chance of rain within 48 hours, the project site will be prepared with adequate erosion control measures to protect against wind and water erosion. Within 24 hours of any predicted storm event, construction activities within the stream zone will cease until all reasonable erosion control measures, inside and outside of the stream zone, have been implemented.	DWR and contractors	Prior to and during construction
Vegetation Disturbance			
CM-4	Disturbance to existing grades and vegetation will be limited to the actual site of the project, necessary access routes, and staging areas. The number of access routes, the size of staging areas, and the total area of the project activity will be limited to the minimum necessary to achieve the project goal. All roads, staging areas, and other facilities will be placed to avoid and limit disturbance to stream bank or stream channel habitat as much as possible. When possible, existing ingress or egress points will be used and/or work will be performed from the top of the creek banks or from barges on the waterside of the project levee. Following completion of the work, the contours of the creek bed and creek flows will be returned to preconstruction conditions, or improved to provide increased biological functions.	DWR and contractors	Prior to and during construction
CM-5	If vegetation removal is required within project access or staging areas, the disturbed areas will be replanted with native species and monitored and maintained to ensure the revegetation effort is successful.	DWR and contractors	Following construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-6	If erosion control fabrics are used in revegetated areas, they will be slit in appropriate locations as necessary to allow for plant root growth. Only non-monofilament, wildlife-safe fabrics will be used.	DWR and contractors	During construction
CM-7	To minimize ground and vegetation disturbance during project construction prior to beginning project activities, DWR will establish and clearly mark the project limits, including the boundaries of designated equipment staging areas; ingress and egress corridors; stockpile areas for spoils disposal, soil, and materials; and equipment exclusion zones.	DWR	Prior to construction
CM-8	Disturbance or removal of vegetation will not exceed the minimum necessary to complete operations. Except for the trees specifically identified for removal in the notification, no native trees with a trunk diameter at breast height in excess of 3 inches will be removed or damaged without prior consultation with and approval by a California Department of Fish and Wildlife (CDFW), USFWS, and National Marine Fisheries Service (NMFS) representative. Using hand tools (e.g., clippers, chainsaw), trees may be trimmed to the extent necessary to gain access to the work sites. Work will be done in a manner that ensures that, to the extent feasible, living native riparian vegetation within the vegetation-clearing zones is avoided and left undisturbed where this can reasonably be accomplished without compromising basic engineering design and safety.	DWR, SERP agencies, and contractors	During construction
CM-9	The amount of rock riprap and other materials used for bank protection will be limited to the minimum needed for erosion protection.	DWR and contractors	During construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-10	All invasive species (e.g., giant reed, <i>Arundo donax</i>) will be completely removed from the project site, destroyed using approved protocols, and disposed of in an appropriate upland disposal area.	DWR and contractors	Prior to and during construction
CM-11	<p>All pesticides/herbicides (pesticides) used to control nonnative vegetation will be used in accordance with label directions. Methods and materials used for herbicide application will be in accordance with DWR's most current guidelines on herbicide use and with laws and regulations administered by the Department of Pesticide Regulation.</p> <p>Note: Improper application of any pesticides near water can affect fish species and may result in "take" of protected fish as defined under the federal Endangered Species Act. To aid in protection of these species, NMFS emphasizes caution and awareness of the following when working near water:</p> <ul style="list-style-type: none"> • Label is the law: read and follow the pesticide label. • Check wind/weather conditions hourly (minimum) or at any observed change. • Avoid drift: wind can cause drift; adhere to label requirements for wind speed. • Do not allow spray to drift off target. • Avoid spraying over or in the water. • When spraying near the water's edge, spray should be directed away from the water toward the targeted plant. • Keep all sprayed materials out of the water. <p>Use caution and be aware of adjoining areas with potential liability as listed on any attachments.</p>	DWR and contractors	Prior to and during construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
Construction Equipment Staging			
CM-12	Construction materials such as portable equipment, vehicles, and supplies, including chemicals, will be stored at designated construction staging areas and on barges, exclusive of any riparian or wetland areas.	DWR and contractors	During construction
CM-13	Barges will be used to stage equipment and construct the project when practical to minimize noise and traffic disturbances and effects on existing landside vegetation. When barge use is not practical, construction equipment and plant materials will be staged in designated landside areas adjacent to the project sites. Existing staging sites, maintenance toe roads, and crown roads will be used to the maximum extent possible for project staging and access to avoid affecting previously undisturbed areas.	DWR and contractors	During construction
Material Stockpiling			
CM-14	Stockpiling of soil and grading spoils will occur in designated areas on the landside of the levee reaches or on offshore barges. Sediment barriers (e.g., silt fences, fiber rolls, and straw bales) will be installed around the base of stockpiles to intercept runoff and sediment during storm events. If necessary, stockpiles will be covered to provide further protection against wind and water erosion.	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
Erosion Control During Construction			
CM-15	There will be no site dewatering activities, including temporary diversion of flows around the work area, unless deemed necessary by CDFW and USFWS to avoid impacts to GGS (NOTE: If dewatering is deemed necessary by CDFW and USFWS, dewatering activities must be conducted in a manner that does not result in the discharge of fill material into waters of the United States or waters of the state).	DWR, USFWS, CDFW, and contractors	Prior to and during construction
CM-16	Erosion control measures (best management practices) that minimize soil or sediment from entering waterways and wetlands will be installed, monitored for effectiveness, and maintained throughout construction operations.	DWR and contractors	During construction
CM-17	If use of erosion control fabrics is necessary, only non-monofilament, wildlife-safe fabrics will be used.	DWR and contractors	During construction
CM-18	DWR will ensure sand, sediment, or sediment-water slurry does not enter the stream channel.	DWR and contractors	During construction
CM-19	No material will be placed in a manner or location where it can be eroded by normal or expected high flows. Jute netting or another non-monofilament erosion control fabric will be used to cover soil that is placed over or mixed into riprap or other revetment materials.	DWR and contractors	During construction
CM-20	Adequate erosion control supplies (e.g., gravel, straw bales, shovels) will be kept at all construction sites during all construction and maintenance activities to ensure that sand and sediments are kept out of any water bodies.	DWR and contractors	During construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-21	<p>Precautions to minimize turbidity/siltation will be taken into account during project planning and will be implemented at the time of construction. This may require placing silt fencing, well-anchored sandbag cofferdams, coir logs, coir rolls, straw bale dikes, or other siltation barriers so that silt and/or other deleterious materials are not allowed to erode into downstream reaches. These barriers will be placed at all locations where the likelihood of sediment input exists and will be in place during construction activities, and afterward if necessary. If any sediment barrier fails to retain sediment, corrective measures will be taken immediately. The sediment barrier(s) will be maintained in good operating condition throughout the construction period and, if necessary, the following rainy season. Maintenance includes, but is not limited to, removing or replacing these barriers. DWR is responsible for removing nonbiodegradable silt barriers (such as plastic silt fencing) after the disturbed areas have been stabilized with vegetation (usually after the first growing season). Upon determination by any of the SERP agencies that turbidity/siltation levels resulting from project-related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation will be halted until effective control devices approved by the determining agency are installed or abatement procedures are initiated.</p>	DWR and contractors	During and following construction
CM-22	<p>DWR will inspect performance of sediment control barriers at least once each day during construction to they are functioning properly. Should a control barrier not function effectively, it will be immediately repaired or replaced. Additional controls will be installed as necessary.</p>	DWR	During construction

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Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-23	Sediment will be removed from sediment controls once the sediment has reached one-third of the exposed height of the control. Sediment collected in these devices will be disposed of away from the collection site at designated upland disposal sites. The location of the sediment disposal site for the project will be shown on the site plan diagram submitted to the SERP agencies with the project notification.	DWR and contractors	During and following construction
CM-24	All disturbed soils will undergo appropriate erosion control treatment (e.g., sterile straw mulching, seeding, planting) prior to the end of the construction season, or prior to October 15, whichever comes first.	DWR and contractors	During and following construction
CM-25	All debris, sediment, rubbish, vegetation, or other material removed from the project site or access or staging areas will be disposed of at an approved disposal site. There will be no sidecasting of material into any waterway.	DWR and contractors	During and following construction
CM-26	All work pads and other construction items will be removed upon project completion.	DWR and contractors	Following construction
CM-27	Upon completion of the construction phase and installation of erosion control materials, the work area within the stream zone will be digitally photographed to document the completed state of the repair site.	DWR and contractors	Following construction
Hazardous Materials			
CM-28	DWR will exercise every reasonable precaution to protect streams and other waters from pollution with fuels, oils, bitumens, calcium chloride, and other harmful materials.	DWR and contractors	Prior to, during, and following construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-29	Petroleum products, chemicals, fresh cement, and construction by-products containing, or water contaminated by, any such materials will not be allowed to enter flowing waters and will be collected and transported to an authorized upland disposal area. DWR will identify the location of the hazardous materials disposal site as part of the project description information contained in the project notification.	DWR and contractors	During and following construction
CM-30	Gas, oil, or other petroleum products, or any other substances that could be hazardous to aquatic life and resulting from project-related activities, will be prevented from contaminating the soil and/or entering waters of the state and/or waters of the United States. Any of these materials placed by DWR or any party working under contract or with the permission of DWR below the OHWM or within the adjacent riparian zone, or where they may enter these areas, will be removed immediately. In the event of a spill, work will stop immediately and CDFW, USFWS, the Regional Water Quality Control, NMFS, and USACE will be notified within 24 hours. DWR will implement the spill prevention and control plan (CM-32) and consult with these agencies regarding any additional cleanup procedures. Any such spills and the cleanup efforts will be reported in an incident report and submitted to the SERP agencies.	DWR and contractors	During and following construction
CM-31	Safer alternative products (such as biodegradable hydraulic fluids) will be used where feasible.	DWR and contractors	During construction
CM-32	A written spill prevention and control plan (SPCP) will be prepared, and the SPCP and all material necessary for its implementation will be accessible on-site prior to initiation of project construction and throughout the construction period. The SPCP will include a plan for the emergency cleanup of any	DWR and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
	spills of fuel or other material. Employees will be provided the necessary information from the SPCP to prevent or reduce the discharge of pollutants from construction activities to waters and to use the appropriate measures should a spill occur.		
CM-33	No solid petroleum products such as asphalt will be used.	DWR and contractors	During construction
CM-34	No concrete or similar rubble will be used.	DWR and contractors	During construction
CM-35	Construction vehicles and equipment will be properly maintained to prevent contamination of soil or water from external grease and oil or from leaking hydraulic fluid, fuel, oil, and grease.	DWR and contractors	Prior to and during construction
CM-36	Heavy equipment will be checked daily for leaks. If leaks are found, the equipment will be removed from the site and will not be used until the leaks are repaired.	DWR and contractors	Prior to and during construction
CM-37	Equipment other than barges will be refueled and serviced at designated refueling and staging sites located on the crown or landside of the levee and at least 50 feet from active stream channels or other water bodies. All refueling, maintenance, and staging of equipment and vehicles will be conducted in a location where a spill will not drain directly toward aquatic habitat. Appropriate containment materials will be installed to collect any discharge, and adequate materials for spill cleanup will be maintained on-site throughout the construction period.	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-38	Storage areas for construction material that contains hazardous or potentially toxic materials will have an impermeable membrane between the ground and the hazardous material and will be bermed to prevent the discharge of pollutants to groundwater and runoff water.	DWR and contractors	During construction
Other Mandatory Conservation Measures			
CM-39	Water (e.g., trucks, portable pumps with hoses, etc.) will be used to control fugitive dust during temporary access road construction.	DWR and contractors	During construction
CM-40	All materials placed in streams, rivers, or other waters will be nontoxic. Any combination of wood, plastic, cured concrete, steel pilings, or other materials used for in-channel structures will not contain coatings or treatments or consist of substances deleterious to aquatic organisms that may leach into the surrounding environment in amounts harmful to aquatic organisms.	DWR and contractors	During construction
CM-41	No materials will be placed in any location or in any manner that will impair the flow of surface water into or out of any wetland area.	DWR and contractors	During construction
CM-42	No fill material other than silt-free gravel or riprap will be allowed to enter the live stream.	DWR and contractors	During construction
CM-43	Water containing mud or silt from construction activities will be treated by filtration, or retention in a settling pond, adequate to prevent muddy water from entering live streams.	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
CM-44	Screens will be installed on water pump intakes as directed by NMFS salmonid-screening specifications. Where Delta smelt may be present, the intake for water pumps must meet a 0.2 feet per second approach velocity standard.	DWR and contractors	Prior to and during construction
CM-45	All litter, debris, unused materials, equipment, and supplies that cannot reasonably be secured will be removed daily from the project work area and deposited at an appropriate disposal or storage site. All trash and construction debris will be removed from the work area immediately upon project completion.	DWR and contractors	During and following construction
Resource-Specific Conservation Measures to be Applied as Necessary to SERP Projects			
Sensitive Biological Resources			
SBR-1	A qualified biologist will provide environmental awareness training to workers before project activities begin and will appoint a crew member to act as an on-site biological monitor. The awareness training will include a description of the relevant species and their habitats that are known to occur in the project vicinity and will describe the guidelines that will be followed by all construction personnel to avoid impacts to the species during project activities. A set of guidelines will be provided by DWR to the maintenance crew foreman or contractor(s) participating in the project, and the crew foreman will be responsible for ensuring that crew members comply with the guidelines.	DWR and contractors	Prior to and during construction
SBR-2	Construction barrier fencing or stakes and flags will be placed around sensitive biological resources located in and within the project site boundaries and will remain in place until all project work involving heavy equipment is complete to ensure that construction activities avoid disturbing these resources. The	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
	size of the fenced buffer area will be determined on a project-specific basis through coordination with CDFW and/or other relevant resource or regulatory agencies.		
SBR-3	A qualified biologist will monitor all construction activities in and within 100 feet of the project site boundaries to ensure that no unauthorized activities occur within the project area. The 100-foot distance may be increased at the direction of a CDFW or other agency representative. The biological monitor will be empowered to stop construction activities that threaten to cause unanticipated and/or unpermitted project impacts. Project activity will not resume until the conflict has been resolved. DWR will notify the relevant agency(ies) if the stopped project activity is related to a provision of any SERP permit/authorization.	DWR and contractors	During construction
Giant Garter Snake			
GGS-1	To the extent possible, construction activities will be avoided within 200 feet from the banks of GGS aquatic habitat, including marshes, sloughs, ponds, irrigation canals, drainage ditches, and flooded rice fields. Movement of heavy equipment in these areas will be confined to existing roadways, where feasible, to minimize habitat disturbance.	DWR and contractors	During construction
GGS-2	Vegetation clearing will be confined to the minimal area necessary to facilitate construction activities. GGS habitat, including marshes, sloughs, ponds, irrigation canals, drainage ditches, and flooded rice fields, within or adjacent to the project site will be flagged and designated as environmentally sensitive areas. These areas will be avoided by all construction personnel.	DWR and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
GGS-3	Work crews and contractors will be given environmental awareness training before beginning work on the project site. This training will instruct workers to recognize GGS and its habitats and explain the possible penalties of noncompliance.	DWR and contractors	Prior to construction
GGS-4	No more than 24 hours prior to construction activities, the project area will be surveyed for GGS by a qualified biologist. Surveys will cover all upland habitat within 200 feet of GGS aquatic habitat and will be repeated if a lapse in construction activity of 2 weeks or greater occurs. If construction activities are proposed within aquatic habitat, the qualified biologist will determine if the habitat could support GGS, and if so, implement measures to exclude GGS from the work area. A GGS-exclusion plan could include measures such as installation of a snake exclusion fence or dewatering the work area (NOTE: Dewatering must be conducted in a manner that does not result in the discharge of fill material into waters of the United States or waters of the state). Any proposed GGS-exclusion plan will be reviewed and approved by CDFW, USFWS and NMFS prior to implementation. If a GGS is encountered during construction, activities will cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. DWR will report any sighting and any incidental take to USFWS immediately by telephone at (916) 414-6600 and to CDFW at (916) 358-4353.	DWR, SERP agencies, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
GGS-5	Any temporary fill and construction debris will be removed after completion of construction activities, and, wherever feasible, disturbed areas will be restored to pre-project conditions. Restoration work may include such activities as replanting banks or emergent vegetation in the active channel. Restoration work beyond what is approved under the SERP must be approved by USFWS prior to implementation.	DWR, USFWS, and contractors	Following construction
GGS-6	All construction activity within GGS habitat, including marshes, sloughs, ponds, irrigation canals, drainage ditches, and flooded rice fields, will occur from May 1 to October 1. This includes in-water construction and work outside the active stream channel.	DWR and contractors	During construction
Valley Elderberry Longhorn Beetle			
VELB-1	DWR work crews and contractors will be given environmental awareness training that will emphasize the identification of elderberry shrubs, the need to avoid damaging the elderberry shrubs, and the possible penalties of noncompliance.	DWR and contractors	Prior to construction
VELB-2	Signs will be erected every 50 feet along the edge of elderberry avoidance areas. The signs will include the following information: "This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the federal Endangered Species Act. Violators are subject to prosecution, fines, and imprisonment." The signs must be clearly readable from a distance of 20 feet and will be maintained throughout the construction period.	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
VELB-3	Avoidance areas for valley elderberry longhorn beetle will be temporarily fenced or flagged to serve as a visual boundary and keep people, vehicles, and other sources of disturbance from crossing into the area.	DWR and contractors	During construction
VELB-4	No insecticides, herbicides, fertilizers, or other chemicals that might harm the elderberry shrub or beetle will be used within 100 feet of any elderberry shrub having one or more stems measuring 1.0 inch or greater in diameter at ground level unless written approval for encroachment within the 100-foot buffer has been secured from USFWS. For projects where the application of insecticides, herbicides, fertilizers, or other chemicals may encroach upon the 100-foot buffer from an elderberry shrub, a description of that encroachment, including methods of application and chemicals to be used, will be specified in the project description section of the project notification form (see Section F, "Notification Requirements") for USFWS review and approval.	DWR, USFWS, and contractors	During construction
VELB-5	When a 100-foot (or wider) buffer is established and maintained around elderberry plants, complete avoidance (i.e., no adverse effects) will be assumed. Where encroachment on the 100-foot buffer has been approved by USFWS, a setback of 20 feet from the dripline of each elderberry plant will be maintained whenever possible. In areas where work will need to occur within the 20-foot setback, a biological monitor will be on site to ensure that no unauthorized take of the beetle or damage to its habitat occurs. Erosion controls will be installed and revegetation with appropriate native seed or plants will be completed on the disturbed areas.	DWR, USFWS, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
VELB-6	DWR will secure the approval of USFWS prior to working within 100 feet of an elderberry shrub during the flight season of the valley elderberry longhorn beetle (March 15 and June 15).	DWR, USFWS, and contractors	Prior to construction
Delta Smelt			
DS-1	DWR work crews and contractors will be given environmental awareness training that will emphasize the identification of Delta smelt, its habitat needs, and the possible penalties of noncompliance.	DWR and contractors	Prior to construction
Swainson's Hawk			
SWH-1	DWR will initiate nest site surveys by March 15 for all projects that are scheduled between March 15 and September 1. All nest sites within 0.5 mile of the project site will be noted and reported to CDFW.	DWR and CDFW	Prior to construction
SWH-2	DWR will conduct a preconstruction breeding-season (approximately February 1 through August 30) survey of the project site. The survey will be conducted by a qualified biologist and must conform to the Swainson's Hawk Technical Advisory Committee (2000) guidelines. If the protocol-level surveys do not identify any nesting raptor species within the survey area, no further mitigation is required. If nesting raptors are detected, DWR will ensure avoidance by project activities of all active bird nest sites located in the survey area during the breeding season (approximately February 1 through August 30). This avoidance may require a delay of construction to avoid the nesting season. Any occupied nest will be monitored by a qualified biologist to determine when the nest is no longer in use. If construction cannot be delayed, avoidance will include the establishment of a non-disturbance buffer zone around the	DWR, CDFW, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
	nest site. The size of the buffer zone will be determined in consultation with CDFW.		
Burrowing Owl			
BO-1	Prior to any ground-disturbing project-related construction activity, a focused survey for burrowing owls will be conducted by a qualified biologist in accordance with CDFW protocol (DFG 1995) to identify active burrows on and within 250 feet of the project site. The surveys will be conducted no more than 30 days prior to the beginning of construction. If no occupied burrows are found in the survey area, no further mitigation is required. If an occupied burrow is found, a buffer will be established—165 feet during the nonbreeding season (September 1 through January 31) or 250 feet during the breeding season (February 1 through August 31)—for all project-related construction activities. The size of the buffer area may be adjusted if a qualified biologist and CDFW determine project-related construction activities are not likely to have adverse effects. No project-related construction activity will commence within the buffer area until a qualified biologist confirms that the burrow is no longer occupied, or until consultation with CDFW specifically allows certain construction activities to continue. If avoidance of occupied burrows is infeasible for project-related construction activities, on-site passive relocation techniques approved by CDFW will be used to encourage owls to move to alternative burrows outside of the project site. However, no occupied burrows will be disturbed by project-related construction activities during the nesting season unless a qualified biologist verifies through noninvasive methods that the burrow is no longer occupied.	DWR, CDFW, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
Bank Swallow			
BS-1	<p>For any SERP project located above (north of) Knights Landing, the project site must be evaluated for its impacts on occupied and potential bank swallow habitat. A pre-project bank swallow survey will be conducted by a CDFW-approved biologist. The survey will include mapping of known and existing bank swallow colonies within a 500-foot radius of the disturbance boundaries of the project. The survey will also include mapping of any suitable breeding colony habitat within the same 500-foot radius. Suitable breeding colony habitat is herein defined by the habitat suitability index model developed to evaluate habitat for bank swallow breeding colonies within the continental United States (Garrison 1989). Based on that model, it is assumed that a bank suitable for a nesting colony must be at least 5 meters (m) (16.7 feet) long; that suitable foraging habitat occurs within 10 kilometers (km) (6 miles) of the colony; that insect prey are not limited; and that optimal colony locations are in vertical banks, greater than 1 m (3.3 feet) tall, greater than 25 m (83 feet) long, and consisting of suitable soft soils (i.e., sand, loamy sand, sandy loam, loam, and silt loam) in strata greater than 0.25 m (0.8 feet) wide. The pre-project bank swallow survey information will be submitted to CDFW in a written report accompanying the project notification materials.</p>	DWR, CDFW, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
BS-2	Projects at sites containing occupied and/or potential bank swallow habitat within the proposed disturbance boundaries will not be authorized under the SERP. Project sites that contain suitable nesting colony habitat outside the project disturbance limits, but within the 500-foot survey radius, may be authorized under SERP at the discretion of CDFW with implementation of additional, site-specific protective measures. However, no project that will affect an existing bank swallow colony will be authorized under the SERP. Any project that would result in take of bank swallow, as defined in California Fish and Game Code section 2081, will require issuance of an incidental take permit from CDFW and does not qualify for authorization under the SERP.	DWR, CDFW, and contractors	During construction
Nesting Birds/Migratory Birds			
NB-1	It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by the Fish and Game Code. Without prior consultation and approval of a CDFW representative, no trees that contain active nests of birds will be disturbed until all eggs have hatched and young birds have fledged. Under the Migratory Bird Treaty Act (MBTA), it is unlawful to pursue, hunt, take, capture, kill, attempt to take capture, or kill, possess any migratory bird, any part, nest, or eggs of any such bird. Because incidental take coverage is not authorized under the MBTA, incidental take of a migratory bird should be avoided. If it is necessary to remove trees for purposes of the project, it is recommended that the trees that are identified for removal be removed during the non-nesting period of August 31 to February 1. If tree removal must occur during the period of February 1 to August 31, a qualified	DWR, USFWS, CDFW, and contractors	Prior to and during construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
	biologist will conduct a preconstruction survey for bird nests or nesting activity within 500 feet of the project boundaries. If any active nests or nesting behaviors are found, CDFW and USFWS must be notified prior to further action. DWR may be required to create exclusion zones of between 75 feet and 0.25 mile depending on the species observed. The exclusion zone must be maintained until birds have fledged or the nest is abandoned. The survey results will be provided to CDFW prior to removal of any trees.		
Raptors			
R-1	If project work will occur during the raptor nesting season (February 1 to August 31), a focused survey for raptor nests will be conducted by a qualified biologist during the nesting season to identify active nests within 500 feet of the project site. The survey will be conducted no less than 14 days and no more than 30 days prior to the beginning of construction. If nesting raptors are found within 500 feet of the project area, no construction will occur during the active nesting season of February 1 to August 31, or until the young have fledged (as determined by a qualified biologist), unless otherwise approved by CDFW.	DWR, CDFW, and contractors	Prior to and during construction
Woody Shaded Riverine Habitat			
WSRH-1	All remaining, natural woody riparian or shaded riverine aquatic (SRA) habitat will be avoided or preserved to the maximum extent practicable.	DWR and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
WSRH-2	Woody riparian and SRA habitat will be replaced at a 3:1 ratio on an area or linear-foot basis, as determined appropriate by DWR in coordination with NMFS.	DWR and NMFS	Following construction
WSRH-3	Species chosen for replanting will reflect native species lost during the permitted activity or native species usually found in the riparian and SRA zones of the project location.	DWR and contractors	Following construction
WSRH-4	Plantings will be installed during the optimal season for the species being planted. Therefore, completion of the planting effort may not occur at the same time as the remainder of the permitted activity.	DWR and contractors	Following construction
WSRH-5	Maintenance of revegetated sites will continue for at least three growing seasons to allow the vegetation to establish. Maintenance will be continued as necessary until the final performance criteria are met.	DWR and contractors	Following construction
Cultural Resources			
CR-1	DWR will ensure that SERP project activities near any historic property do not approach closer to the property than identified and allowed for in the resource-specific historic properties treatment plan (HPTP) and the construction monitoring and inadvertent discovery plan in accordance with requirements of the PA.	DWR and contractors	Prior to and during construction
CR-2	DWR will ensure that an archaeological monitor is present during any ground-disturbing activities in areas where monitoring of construction is necessary to prevent or reduce adverse effects. Specific situations requiring archaeological monitoring and the methods and procedures for archaeological monitoring will be described in the <i>Construction Monitoring and</i>	DWR, USACE, and contractors	During construction

Table MMRP-2 Mitigation Monitoring and Reporting Program for SERP Conservation Measures			
Conservation Measure No.	Description	Responsible Party	Implementation Timing
	<p><i>Inadvertent Discovery Plan</i> as stipulated by the PA. In situations other than those described in the <i>Construction Monitoring and Inadvertent Discovery Plan</i> which specifically require archaeological monitoring, an archaeologist will be available on an on-call basis. If suspected archaeological materials are discovered during ground-disturbing activities, work will stop at that location and within 50 feet of the find until the archaeologist can inspect and assess the find and provide recommendations to DWR and USACE. Work may not resume at that location until DWR and USACE authorize resumption of work.</p>		

References

California Department of Fish and Game. 1995. Staff Report on Burrowing Owl Mitigation.

DFG. See California Department of Fish and Game.

Garrison, B. A. 1989. Habitat Suitability Index Model: Bank Swallow (*Riparia riparia*). U.S. Fish and Wildlife Service, Region One, Division of Ecological Services, Sacramento, CA.

Swainson's Hawk Technical Advisory Committee, 2000. *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California/s Central Valley*.

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MITIGATION MONITORING AND REPORTING PROGRAM DETERMINATION

I adopt the Mitigation Monitoring and Reporting Program set forth in this Exhibit C, which meets the requirements of CEQA Guidelines Section 15091, subd. (d) and 15097.



Jon M. Ericson
Office Chief
Flood Maintenance Office
Division of Flood Management
Department of Water Resources

Date


