

Final Mitigation, Monitoring, and Reporting Plan  
American River Common Features 2016 Project  
Sacramento River, Reach D, Contract 1  
Front Street Stability Berm

This Mitigation Monitoring and Reporting plan (MMRP) is designed to fulfill Section 21081.6 (a) of the California Environmental Quality Act (CEQA), which requires public agencies to adopt a reporting or monitoring program when adopting a mitigated negative declaration. This MMRP accompanies the Mitigated Negative Declaration (MND) for the American River Common Features 2016 Project, Sacramento River, Reach D, Contract 1, Front Street Stability Berm (Project). The MND is supported by the Supplemental Environmental Assessment / Initial Study (SEA/IS) for the Project, which supplements the American River Common Features General Reevaluation Report Environmental Impact Statement / Environmental Impact Report (EIS/EIR). The EIS/EIR was adopted by the Central Valley Flood Protection Board (CVFPB) in April 2016 via CVFPB Resolution 2016-04. The avoidance, minimization, and mitigation measures described below are to be used to avoid, minimize, or reduce any potentially significant environmental impacts to a less-than-significant level.

The MMRP table includes the following:

- Section and Impacts – identifies the issue area section of the EA/IS and corresponding impact.
- Mitigation Measures – lists the adopted mitigation measures from the EA/IS.
- Implementation Timing – identifies the timing of implementation of the action described in the mitigation measures.
- Responsible for Implementation – identifies the agency/party responsible for implementing the actions described in the mitigation measures.
- Responsible for Monitoring/Reporting Action – identifies the agency/party responsible for monitoring implementation of the actions described in the mitigation measures. Verification will be carried-out during the project and an MMRP completion report will be submitted to the CVFPB staff upon completion of the Project.

Section and Impacts	Mitigation Measures	Implementation Timing	Responsible for Mitigation	Responsible for Monitoring/Reporting Action
<p>3.2.10 Vegetation and Wildlife (VEG)</p> <p>Construction of the Proposed Action would require the removal of six trees that are currently in conflict with the berm's footprint. The combined canopy cover of these trees is 0.13-acre.</p>	<p><b>VEG-1:</b> Compensate for the loss of 0.13-acre of tree canopy cover by performing off-site mitigation at a 2:1 ratio, which will occur through the planting of 0.26-acre of native riparian woodland species into the forthcoming Beach-Stone Lakes Mitigation Site.</p>	<p>O</p>	<p>USACE</p>	<p>CVFPB</p>

Notes:

D: To be implemented or included as part of project design. Includes pre-project permitting and agency coordination.

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Section and Impacts	Avoidance and Minimization Measures	Implementation Timing	Responsible for Mitigation	Responsible for Monitoring/Reporting Action
3.2.1 Air Quality (AQ)	<p><b>AQ-1:</b> USACE would require its contractor to implement Sacramento Metro Air Quality Management District's (SMAQMD) Enhanced Exhaust Control Practices;</p> <p><b>AQ-2:</b> Water exposed soil with adequate frequency to minimize fugitive dust.</p> <p><b>AQ-3:</b> Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 miles per hour (mph).</p> <p><b>AQ-4:</b> Treat site access locations to a distance of a 100 feet of a paved road with a 6 to 12-inch layer of wood chips, mulch, or gravel to reduce generation of road dust and road dust carryout onto public roads.</p> <p><b>AQ-5:</b> Post a publicly visible sign with the telephone number and person to contact at the CEQA lead agency regarding dust</p>	P, C	USACE	CVFPB

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	<p>complaints. This person shall respond and take corrective action within 48 hours. The phone number of SMAQMD shall also be visible to ensure compliance.</p> <p><b>AQ-6:</b> USACE would encourage its construction contractor to use construction equipment outfitted with Best Available Control Technology (BACT) devices certified by the California Air Resources Board (CARB). Any emissions control device used by the construction Contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions strategy for a similarly sized engine as defined by CARB regulations.</p> <p><b>AQ-7:</b> USACE would encourage its contractor to use Tier 4 equipment for construction to further reduce potential emissions.</p> <p><b>AQ-8:</b> If asbestos is found in the 30-inch outfall pipes located within the Project area, USACE would require its contractor to comply with SMAQMDs Rule 902 to reduce adverse effects on humans and the surrounding wildlife resources.</p>			
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Section 3.2.2 Climate Change (CLIMATE)	<p><b>CLIMATE-1:</b> Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction worker commutes.</p> <p><b>CLIMATE-2:</b> Recycle at least 75 percent of construction waste and demolition debris.</p> <p><b>CLIMATE-3:</b> Purchase at least 20 percent of the building materials and imported soils from sources within 100 miles of the proposed Project site.</p>	P, C	USACE	CVFPB
Section 3.2.3 Cultural Resources (CUL)	<p><b>CUL-1:</b> The proposed Project would temporarily remove an existing railroad switch lever during construction. To maintain the integrity of the Walnut Grove Branch Line of the Southern Pacific Railroad (considered a Historic Property), the switch lever would be reinstalled upon completion of construction.</p> <p><b>CUL-2:</b> To minimize any effects to Historic Properties that may be encountered during</p>	P, C	USACE	CVFPB

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	<p>construction activities, the construction Contractor would follow the procedures for the discovery of previously unknown Historic Properties described in Stipulation IX of the existing Programmatic Agreement for the ARCF 2016 Project.</p>			
<p>Section 3.2.5 Recreation (REC)</p>	<p><b>REC-1:</b> USACE would provide public information, including on-site signage and public notification of the proposed Project to the public and to operators of the affected recreation facilities.</p> <p><b>REC-2:</b> Ensure complete restoration of the proposed Project site to pre-project conditions.</p> <p><b>REC-3:</b> USACE would coordinate with California State Parks at least 30 days prior to start of construction to coordinate the closure of the railroad staging spur.</p> <p><b>REC-4:</b> After construction is complete, USACE would coordinate with California State Parks to repair any construction related damage to the staging spur of the railroad to pre-project conditions.</p>	<p>D, P, C, O</p>	<p>USACE</p>	<p>CVFPB</p>

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<p>Section 3.2.6 Traffic (TRA)</p>	<p><b>TRA-1:</b> The construction Contractor would notify and consult with emergency service providers to maintain emergency access and facilitate the passage of emergency vehicles on city streets.</p> <p><b>TRA-2:</b> The construction Contractor would assess damage to roadways its vehicles cause during construction and would repair all potholes, fractures, or other damages. The construction Contractor would provide adequate parking for construction trucks, equipment, and construction workers within the designated staging areas throughout the construction period. If inadequate space for parking is available at a given work site, the construction contractor would provide an off-site staging area and, as needed, coordinate the daily transportation of construction vehicles, equipment, and personnel to and from the work site.</p> <p><b>TRA-3:</b> The construction Contractor would follow the standard construction specifications of the City of Sacramento and obtain the appropriate encroachment permits, as required. The conditions of the permit would be incorporated into the</p>	<p>P, C</p>	<p>USACE</p>	<p>CVFPB</p>
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	construction contract and would be enforced by the City of Sacramento.			
Section 3.2.7 Aesthetics (Aes)	<p><b>AES-1:</b> Following construction, the construction Contractor would be required to remove all waste, equipment, and materials from the site. The construction Contractor would restore the site to pre-construction conditions, to the greatest extent feasible.</p> <p><b>AES-2:</b> Disturbed areas would be revegetated by hydroseeding the soil with native grass seed.</p>	O	USACE	CVFPB
Section 3.2.9 Noise (NOISE)	<p><b>NOISE-1:</b> Display notices with information including, but no limited to, construction Contractor contact telephone number(s) and proposed construction dates and times in a conspicuous manner, such as on construction site fences.</p> <p><b>NOISE-2:</b> Construction equipment would be equipped with factory-installed muffling devices, and all equipment would be</p>	P, C	USACE	CVFPB

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	operated and maintained in good working order to minimize noise generation.			
Section 3.2.10 Vegetation and Wildlife (VEG)	<p><b>VEG-2:</b> Woody vegetation that needs to be removed within the proposed Project site should be removed during the non-nesting season to avoid affecting active migratory bird nests.</p> <p><b>VEG-3:</b> Avoid impacts to migratory birds nesting in and adjacent to the proposed Project site by conducting pre-construction surveys for active nests along proposed haul roads, staging areas, and construction sites. Pre-construction surveys would be conducted by a qualified biologist. Work around active nests should be avoided until the young have fledged. If active nests are identified within or adjacent to the proposed Project site, a no-construction buffer would be established, and CDFW would be contacted if deemed necessary by the qualified biologist.</p>	D, P, C	USACE	CVFPB

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	<p><b>VEG-4:</b> The following protocol from the CDFW for Swainson’s hawk would be followed for the pre-construction survey for raptors: <i>A focused survey for Swainson's hawk nests will be conducted by a qualified biologist during the nesting season (February 1 to August 31) to identify active nests within 0.25 mile of the project area. The survey will be conducted no less than 14 days and no more than 30 days prior to the beginning of construction. If nesting Swainson's hawks are found within 0.25 mile 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 negotiated with the California Department of Fish and Wildlife. If work is begun and completed between September 1 and January 31, a survey is not required.</i></p> <p><b>VEG-5:</b> Avoid future impacts to the site by ensuring all fill material is free of contaminants (including hazardous waste and invasive species).</p> <p>Minimize project impacts by reseeding all disturbed areas, including staging areas, at the completion of construction with native</p>			
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	<p>forbs and grasses. Reseeding should be conducted just prior to the rainy season to enhance germination and plant establishment. The reseeding mix should include species beneficial for native pollinators.</p> <p><b>VEG-6:</b> Minimize the impact of removal and trimming of all trees and shrubs by having these activities supervised and/or completed by a certified arborist.</p>			
Section 3.2.11 Water Quality (WATER)	<p><b>WATER-1:</b> Prior to construction, the construction Contractor would prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) and would obtain a National Pollutant Discharge Elimination Systems permit, as applicable, and comply with all conditions of the permit.</p> <p><b>WATER-2:</b> This plan would detail the construction activities to take place, Best Management Practices (BMPs) to be implemented to prevent any discharges of contaminated storm water into waterways, and inspection and monitoring activities that would be conducted.</p>	D, P, C	USACE	CVFPB

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