

APPENDIX B MITIGATION MONITORING PLAN

MITIGATION MONITORING PLAN
ENVIRONMENTAL IMPACT REPORT for
CACHE CREEK RESOURCES
MANAGEMENT PLAN and
PROJECT-LEVEL
ENVIRONMENTAL IMPACT REPORT for
CACHE CREEK IMPROVEMENT
PROGRAM
for LOWER CACHE CREEK

SCH #96013004

Yolo County

July 1, 1996

INTRODUCTION

The California Environmental Quality Act requires public agencies to report on and monitor measures adopted as part of the environmental review process (PRC Section 21081.6). This Mitigation Monitoring Plan (MMP) is designed to ensure that the measures identified in the Cache Creek Resources Management Plan EIR are fully implemented. The MMP describes the actions that must take place as a part of each measure, the timing of these actions, who is responsible for implementation, and the agency responsible for enforcing each action.

For most of the measures noted in this MMP, the County has ultimate responsibility for implementation of mitigation measures. Therefore, it is recommended that the Resources Management Coordinator of the Community Development Agency be assigned chief monitor and be responsible for assigning monitoring actions to responsible agencies. The Resources Management Coordinator would track the overall progress of each action.

If another agency or entity is responsible for implementation, it is recommended that the Resources Management Coordinator contact these agencies or entities and request detailed information to be appended to this Plan, in order to ensure coordination in monitoring and reporting.

As required by Section 21081.6 of the PRC, the Yolo County Community Development Agency is the "custodian of documents and other material" which constitute the "record of proceedings" upon which a decision to adopt the CCRMP was based. Inquiries should be directed to:

David Morrison, Resources Management Coordinator,
Yolo County Community Development Agency
(916) 666-8041

The location of this information is:

Yolo County Community Development Agency
292 West Beamer Street
Woodland, California 95695

In order to assist implementation of the Cache Creek Resources Management Plan EIR mitigation measures, the Plan has been formatted as a table with the following information:

- Impact - listed verbatim in order of the EIR;
- CRMP Mitigation Measures - listed verbatim in order of the EIR;
- Reporting/Monitoring Requirement - applicable milestones;
- Responsibility for Compliance - applicable entity;
- Method of Compliance - how actions will be implemented;
- Enforcement - how implementation of action will be assured; and
- Checkoff - verification of implementation.

**CCRMP
MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Land Use and Planning						
Impact 4.2-1: Consistency with Yolo County General Plan	None required.					
Impact 4.2-2: Consistency with the Yolo County Zoning Ordinance and County Code	<p>Mitigation Measure 4.2-2a</p> <p>None required.</p> <p>However, if the SMARA exemption is approved, it is recommended that Section 8-2.2312(a) of the Zoning Ordinance be amended by deleting reference to in-channel surface mining as follows:</p> <p><i>Applicability for in-channel surface mining. The Special Sand and Gravel Combining Zone (SG) may be combined with the existing zoning of any land, including A-1 and A-P zoned land, located within a channel as defined by Chapter 3 of Title 10 of this Code.</i></p> <p><i>The use of any land within a channel and designated by the Special Sand and Gravel Combining Zone (SG) for mining purposes shall be allowed only pursuant to Chapter 3 of Title 10 of this Code entitled 'Interim In-Channel Surface Mining Regulations,' or successors thereto.</i></p>	Prior to Creek Improvement Projects	Planning	Amend Zoning Ordinance	Incorporate into Zoning Ordinance	
Impact 4.2-3: Consistency with the State Mining and Reclamation Act (SMARA) and the State Mining and Geology Board Reclamation Regulations	<p>Mitigation Measure 4.2-3a</p> <p>None required.</p> <p>However, if the CCRMP is found to be subject to SMARA, the County should submit the Plan, including the CCIP, to Division of Mines and Geology for review and approval as the mining and reclamation plan for the study area of the creek.</p>	Prior to Creek Improvement Projects	Planning	Submittal of CCRMP and CCIP	Mitigation Monitoring Plan	
Impact 4.2-4: Compatibility with Existing and Planned Land Uses	<p>Mitigation Measure 4.2-4b</p> <p>None available.</p>					
Impact 4.2-5: Change in Land Use Intensity	None required.					

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Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Impact 4.2-6: Land Use Incompatibility Due to Changes in the Creek Boundary	<i>None required.</i>					
Impact 4.2-7: Establishment of a Conceptual Planning Framework for the Long-Term Preservation and Development of Open Space and Recreational Opportunities in the Lower Cache Creek Area.	<i>None required.</i>					
Geology and Soils						
Impact 4.3-1: Impacts of Sediment Deposition and Removal Potentially Affecting Creek Stability and Causing Lateral Erosion of the Channel Bed or Banks, Resulting in Loss of Agricultural Lands or Other Valuable Improvements, Such as Roads, Bridges, or Other Structures	<p><i>Mitigation Measure 4.3-1a</i></p> <p><i>The CCRMP shall be amended to include the following additional or modified Actions and Performance Standards:</i></p> <p><i>Action 2.4-2: Limit the amount of aggregate removed from the channel to the amount of sand and gravel deposited during the previous year (approximately 200,000 tons on average as estimated by the TAC based on channel morphology data), except where bank excavation is necessary to widen the channel as a part of implementing the Test 3 Run Boundary, or where potential erosion and flooding problems exist. The amount and location of in-channel aggregate removal shall be carried out according to the ongoing recommendations of the Technical Studies and the Technical Advisory Committee, with the voluntary cooperation of the landowners involved.</i></p> <p><i>Action 2.4-15: Present a request to the State Mining and Geology Board to grant an exemption from the requirements of SMARA for all channel improvement projects approved under the Cache Creek Improvement Program.</i></p> <p><i>Action 2.4-16: Draft the County In-channel Ordinance to prohibit commercial mining with the CCRMP planning area and specify that aggregate extraction within the area shall be limited to activities necessary to complete channel improvement projects.</i></p>	<p>Annually Prior to In-Channel Maintenance Activities</p> <p>Prior to Creek Improvement Projects</p> <p>Prior to Creek Improvement Projects</p>	<p>Planning</p> <p>SMGB, Planning</p> <p>Planning</p>	<p>Amend CCRMP</p> <p>Submittal of Requested SMARA Exemption</p> <p>Adoption of Ordinance</p>	<p>Incorporate into Implementing Ordinances</p> <p>Mitigation Monitoring Plan</p> <p>Adoption of Implementing Ordinances</p>	

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	<p><i>Action 6.4-4: Draft the County In-channel Ordinance to require that , upon revocation of existing in-channel mining permits, the tonnage of aggregate removed by an aggregate mining operator in completion of approved channel improvement projects is excluded from the operator's permitted maximum annual production. These market incentives would ensure that the necessary work would be accomplished at little cost to the County.</i></p> <p><i>Action 6.4-5: Provide technical support through the TAC to mining operators, property owners, and government agencies involved with Cache Creek to facilitate the removal of channel deposits that affect property and structures, the construction of flood protection and erosion control measures, and the provision of emergency labor, equipment, and materials during and/or after flood events.</i></p> <p><i>PS. 2.5-6: Require all channel improvement projects to comply with the requirements of the CCIP and implementing regulations.</i></p> <p><i>Mitigation Measure 4.3-1b</i></p> <p><i>The CCRMP shall be amended to include the CCIP and the following additional or modified Performance Standards:</i></p> <p><i>PS. 2.5-7: Require the TAC to annually prepare a list of priority channel improvement projects which will be identified and described in an annual report to the Board of Supervisors. Channel improvements which could improve channel stability at the location of bridges or other structures shall maintain a high priority until implementation. Following review by the Board, the TAC shall contact individual landowners to explain recommended channel improvements for their property and describe available resources for design and implementation of the projects.</i></p> <p><i>PS. 6.5-9: In-channel haul roads shall be located along the toe of the streambank, in order to provide additional bank stabilization and to minimize disturbance of the low-flow channel. Construction of the haul roads shall not result in excavation of the toe of the streambank. Each operation may have no more than two (2) haul roads that cross the low-flow channel. Haul roads shall comply with all applicable requirements.</i></p>	<p>Prior to Creek Improvement Projects/Upon Revocation of Existing In-Channel Permits</p> <p>Prior to and During Creek Improvement Projects; and During Flood Events</p> <p>Prior to Creek Improvement Projects/Ongoing</p> <p>Ongoing (Annually)</p> <p>Prior to and During Creek Improvement Projects</p>	<p>Planning</p> <p>Planning/TAC</p> <p>Planning</p> <p>Planning/TAC</p> <p>Planning, CDFG</p>	<p>Adoption of Implementing Ordinances</p> <p>Adoption of CCRMP and CCIP</p> <p>Adoption of CCRMP and CCIP</p> <p>Submittal of Annual Report to BOS</p> <p>Submittal of Creek Improvement Project Work Plan</p>	<p>Require as a Standard Condition</p> <p>Incorporate into CCRMP</p> <p>Require as a Standard Condition</p> <p>Incorporate into CCRMP</p> <p>Require as a Standard Condition</p>	

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	<p><i>PS. 6.5-10: Approved channel improvement projects requiring excavation of channel banks and removal of riparian vegetation shall revegetate upon completion of excavation activities or shall develop similar habitat at a suitable off-site location.</i></p> <p><i>PS. 6.5-6: Final slopes for in-channel excavations shall conform with the channel slope and sinuosity guidelines shown in Figure 12 [of the CCRMP]. Excavations shall be sloped in a downstream direction, toward the low-flow channel. When recommended by the TAC, alternate grading plans may be approved.</i></p> <p><i>PS. 6.5-7: In-channel excavations shall generally conform with the cross-section profiles shown in Figures 13 through 17 [of the CCRMP]. When recommended by the TAC, alternate grading plans may be approved.</i></p> <p><i>PS. 6.5-12: Where gravel bars are to be excavated, aggregate removal shall be limited to the downstream portion of the deposit and may not exceed seventy-five (75) percent of the length of the bar. Twenty-five (25) percent of the upstream portion of the gravel bar shall be retained, in order to allow for the establishment of riparian vegetation. Complete removal of gravel bars may be recommended by the TAC only if hydraulic conditions related to the bar are recognized to threaten structures and property.</i></p> <p><i>PS. 6.5-14: Proposed off-channel excavations located within the streamway influence boundary shall be set back a minimum of seven-hundred (700) feet from the existing channel bank, unless an engineering analysis demonstrates that a smaller distance will not adversely affect channel stability within the reach. If the proposed engineering measures are demonstrated to be feasible, then the minimum setback distance shall be no less than two-hundred (200) feet.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>During Creek Improvement Projects</p> <p>During Creek Improvement Projects</p> <p>During Creek Improvement Projects</p> <p>During Creek Improvement Projects</p>	<p>Planning, CDFG</p> <p>Planing, TAC</p> <p>Planning, TAC</p> <p>Planning, TAC</p> <p>Planning</p>	<p>Submittal of Habitat Restoration Plan</p> <p>Submittal of Grading Plan</p> <p>Submittal of Grading Plan</p> <p>Submittal of Creek Improvement Project Work Plan</p> <p>Submittal of Creek Improvement Project Work Plan; and Engineering Analysis</p>	<p>Require as a Standard Condition</p> <p>Require as a Standard Condition</p> <p>Require as a Standard Condition</p> <p>Require as a Standard Condition</p> <p>Require as a Standard Condition; Financial Assurances; and Deed Restriction</p>	

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	<p><i>Approval of any off-channel mining project located within 700 feet of the existing channel bank shall be contingent upon an enforceable agreement which requires the project operator to participate in the completion of channel improvement projects. The agreement shall also require that the operator provide a bond or other financial instrument for maintenance during the mining and reclamation period of any bank stabilization features approved for the mining project. The agreement shall also require that a deed restriction be placed on the underlying property which requires maintenance of the streambank protection by future owners of the property. Maintenance of the bank stabilization on features following completion of reclamation shall be the responsibility of the property owner.</i></p> <p><i>PS. 4.5-23: The TAC shall evaluate the vegetative cover within the CCRMP on an annual basis. At a minimum of once every five years, the existing hydraulic model of the Cache Creek channel shall be updated based on current conditions, including estimates of channel roughness. If sensitivity analysis indicates that the existing vegetation is contributing to adverse channel roughness, the TAC shall recommend removal of vegetation within selected areas of the channel.</i></p>	<p>Prior to Off-Channel Mining</p> <p>Ongoing (Annually and Every 5 Years)</p>	<p>Planning</p> <p>Planning, TAC</p>	<p>Execute Agreement</p> <p>Submittal of TAC Report</p>	<p>Require as a Standard Condition</p> <p>Incorporate into CCRMP</p>	
<p>Impact 4.3-2: Modifications of the Channel During Improvement Projects Could Potentially Result in Unstable Conditions Upstream or Downstream of the Projects</p>	<p><i>Mitigation Measure 4.3-2a</i></p> <p><i>The CCRMP shall be modified to include the following Performance Standard:</i></p> <p><i>PS. 2.5-8: The review by the TAC of all Floodplain Development Permit applications for Cache Creek channel improvement projects within the CCRMP area shall include an evaluation of potential upstream and downstream effects of the proposed channel modifications. The TAC shall evaluate data on hydraulic conditions presented in the permit application. The TAC shall also examine aerial photographs and perform a reconnaissance investigation of the site and surrounding areas to identify potential upstream and downstream effects.</i></p>	<p>Ongoing/Prior to Creek Improvement Projects</p>	<p>Planning, TAC</p>	<p>Submittal of Floodplain Development Permit Application/TAC Report</p>	<p>Require as a Standard Condition</p>	
<p>Impact 4.3-3: Channel Instability Within the CCRMP Planning Area Could Be Affected by Significant Changes in Upstream or Downstream Portions of the Watershed</p>	<p><i>None Required.</i></p>					

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Hydrology and Water Quality

**Impact 4.4-1: Potential
Impacts Associated with
Flooding Outside the
Planning Area**

Mitigation Measure 4.4-1a

Action 2.3-10 of the CCRMP shall be modified:

Action 2.3-10: The County shall manage collection of the information necessary to make informed decisions about the management of Cache Creek, including: regular water and sediment discharge data at Capay and Yolo gauge sites, water and sediment discharge data at other sites during high flow events, and topographic data showing the erosion, aggradation, and the alignment of the low-flow channel within the creek. This data should be maintained in the County Geographic Information System, so that staff and the Technical Advisory Committee can coordinate this information with the results of other monitoring programs to develop a comprehensive and integrated approach to resource management. Monitoring may, at the discretion of the County, be conducted by either consultants or trained volunteers, including landowners, public interest groups, the aggregate industry, and students, as a part of future public education programs associated with Cache Creek. However, the County shall maintain responsibility for collection of high quality data.

Ongoing

Planning

Adoption of
CCRMP and
CCIP

Incorporate into
CCRMP

The following Performance Standard shall be added to the CCRMP:

Existing flooding problems near Woodland shall not be exacerbated by activities conducted under the CCRMP or CCIP.

Ongoing

Planning

Adoption of
CCRMP and
CCIP

Incorporate into
CCRMP

The following Performance Standard of the CCRMP shall be modified:

PS. 2.5-5: The Technical Advisory Committee shall review topographic data and such other information as is appropriate, to determine the amount and location of aggregate to be removed from the channel. Aggregate removal from the channel shall only be recommended in order to provide flood control, protect existing structures, minimize bank erosion, or implement the Test 3 Run Boundary. Except for bank excavation to widen the channel, annual aggregate removal shall not exceed the amount of sand and gravel deposited the previous year, as determined by aerial photography analysis.

Annually Prior to
Creek
Improvement
Projects

Planning,
TAC

Annual TAC
Report on
Channel
Deposition; and
Annual Channel
Monitoring

Incorporate into
CCRMP

Recommendations shall take into consideration the desires of the property owner where excavation is to take place, as well as the concerns of property owners in the immediate vicinity.

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	<p><i>The provisions of the draft Cache Creek Improvements Program shall be implemented by the County Resource Management Coordinator, with the assistance of the Technical Advisory Committee, for review and approval of the County Board of Supervisors. The CCIP shall contain provisions to ensure that 100-year flood protection is maintained within the planning area and the existing flooding problems downstream are not exacerbated by channel reshaping. This shall be accomplished by annual monitoring of channel geomorphology, distribution and density of plant material within the channel, and modeling to forecast changes in base flood elevations. When modeling indicates that the channel is approaching loss of 100-year conveyance capacity (or has already lost this capacity) the TAC should prescribe action to reestablish 100-year capacity with adequate tolerances.</i></p> <p><i>The County shall review and monitor removal of aggregate and/or plant material, as prescribed by the TAC. The County, at its discretion, may enlist the aid of gravel mining operators, other private property owners, or conduct the maintenance activities using County resources.</i></p> <p><i>Figure 2 of the CCRMP shall be modified as shown on Figure 4.4-7 to more accurately identify areas of potential flood hazard.</i></p> <p><i>Action 2.4-6 shall be modified as follows:</i></p> <p><i>Action 2.4-6: Work with other agencies having jurisdiction over Cache Creek including, but not limited to, the Yolo County Flood Control and Water Conservation District, the U.S. Army Corps of Engineers, the State Reclamation Board, State Department of Water Resources, and the Federal Emergency Management Agency in developing a coordinated solution for managing flood events throughout the watershed of Cache Creek.</i></p> <p><i>As a part of this effort, the County should coordinate with the U.S. Army Corps to make appropriate sedimentation and channel stability assessments in conjunction with the development of flood control alternatives near the downstream end of the study area. This would ensure that both agencies are using the same sets of assumptions when making recommendations about the management of Cache Creek.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>Ongoing (At a Minimum Annually)</p>	<p>Planning</p> <p>Planning, YCFC&WCD, USACOE, SRB, DWR, FEMA</p>	<p>Adoption of CCRMP and CCIP</p> <p>Adoption of CCRMP and CCIP; and Submittal of Sedimentation and Channel Stability Assessment</p>	<p>Incorporate into CCRMP</p> <p>Incorporate into CCRMP</p>	

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	<p><i>The County Resource Management Coordinator shall maintain contact with the specified agencies. Interagency contact shall be initiated at least annually. The Resource Management Coordinator shall encourage coordination between the County and other agencies.</i></p> <p><i>Action 3.4-2 shall be modified as follows:</i></p> <p><i>Action 3.4-2: The County Resource Management Coordinator, and other appropriate County staff, shall negotiate cooperative agreements with the Yolo County Flood Control and Water Conservation District, U.S. Army Corps of Engineers, Regional Water Quality Control Board, Yolo County Resource Conservation District, and U.S. Bureau of Land Management, among others, to extend the provisions of the CCRMP outside of the plan area and incorporate the requirements of other agencies of jurisdiction into the County's planning efforts. Interagency contact shall be initiated at least once per year.</i></p>	Ongoing (At a Minimum Once Annually)	Planning, YCFC & WCD, USACOE, RWQCB, YCRCD, BLM	Adoption of CCRMP and CCIP	Incorporate into CCRMP	
<p>Impact 4.4-2: Potential Impacts Associated with Inconsistencies Between the FEMA Designated 100-Year Flood Zone and More Recent Hydraulic Analyses</p>	<p><i>Mitigation Measure 4.4-2a</i></p> <p><i>Action 2.4-7 shall be revised as follows:</i></p> <p><i>Action 2.4-7: Manage activities and development within the floodplain to avoid hazards and adverse impacts on surrounding properties. This shall be accomplished through enforcement of the County Flood Ordinance and ensuring that new development complies with the requirements of the State Reclamation Board.</i></p> <p><i>The County Floodplain Administrator shall file for a Letter of Map Revision with FEMA to update the FIRMs affected by channel reshaping within the planning area every ten years, or as needed.</i></p>	Ongoing (As Needed)	Planning, FEMA	Implementation of County Flood Ordinance/SRB Requirements; and Submittal of a Letter of Map Revision	Incorporate into Flood Ordinance	

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Impact 4.4-4: Potential Impacts Associated with Water Supply for Biotic Restoration	<p><i>Mitigation Measure 4.4-4a</i></p> <p><i>The following modifications shall be made to Performance Standard 4.5-11:</i></p> <p><i>PS. 4.5-11: Existing hydrologic conditions (as described in Figure 4.4-1 of the Technical Studies, and Jones and Stokes (1995)) shall be assumed for all proposed biotic reclamation activities. If an agreement were reached between the County and the YCFC&WCD regarding maintenance of year-round flow in the creek, additional water would be available for restoration activities. The TAC would be responsible for identifying and implementing new restoration opportunities resulting from the increased water availability. All plantings should be carefully selected based on the existing hydrology and water availability of the reclamation area.</i></p> <p><i>Irrigation may be necessary for the first one or two summers in drier sites to allow the roots to develop sufficiently to tap into the summer groundwater level. A drip irrigation system may be necessary at least twice per month during dry periods for the first two years. The party undertaking restoration shall be responsible for acquisition of water supply, design, construction, and operation of the irrigation systems.</i></p>	<p>Prior to Creek Improvement Projects</p>	<p>Planning, TAC</p>	<p>Adoption of CCRMP and CCIP</p>	<p>Incorporate into CCRMP</p>	
Impact 4.4-5: Potential Impacts Associated with Groundwater Recharge and Surface Water Supplies.	<p><i>Mitigation Measure 4.4-5a</i></p> <p><i>Action 3.4-5 shall be eliminated from the CCRMP.</i></p> <p><i>Objective 3.3-1 of the CCRMP shall be revised as follows:</i></p> <p><i>The County shall encourage the development of a groundwater recharge program, where appropriate, within the Cache Creek basin. The program may specify use of reclaimed mining pits and open lakes to the greatest extent feasible, while maintaining consistency with the other goals, objectives, actions, and performance standards of the OCMP and CCRMP.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>Ongoing</p>	<p>Planning</p> <p>Planning</p>	<p>Adoption of CCRMP and CCIP</p> <p>Adoption of CCRMP and CCIP</p>	<p>Eliminate from CCRMP</p> <p>Incorporate into CCRMP</p>	

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Agriculture						
Impact 4.5-1: Potential Permanent Loss of Agricultural Land	<p><i>Mitigation Measure 4.5-1a</i></p> <p><i>None required.</i></p> <p><i>Mitigation Measure 4.5-1b</i></p> <p><i>Any mining occurring off-channel shall be required to comply with OCMP policies.</i></p>	Ongoing	Planning	Submittal of Mining and Reclamation Application	Require as a Standard Condition	
Impact 4.5-2: Potential Impacts of Habitat Restoration on Agricultural Productivity	<p><i>Mitigation Measure 4.5-2a</i></p> <p><i>The CCRMP shall be amended to include the following Performance Standard:</i></p> <p><i>PS. 7.5-4: The Yolo County Community Development Agency, in consultation with the Yolo County Resource Conservation District Board, and with approval by the Board of Supervisors, shall present a request to the California Department of Fish and Game to initiate a "Safe Harbor" program for the CCRMP/OCMP planning area, or develop a functionally equivalent program.</i></p> <p><i>Mitigation Measure 4.5-2b</i></p> <p><i>The following Performance Standard shall be included in the CCRMP:</i></p> <p><i>PS. 7.5-6: All habitat restoration, creation, or enhancement plans proposed within the CCRMP channel boundary shall be reviewed by the County Agricultural Commissioner, if requested by proponents of channel modification projects. The Agricultural Commissioner shall identify and recommend appropriate vegetative buffers between habitat areas and agricultural fields and effective management of site water resources (including appropriate integration of agricultural drainage features into habitat planning). Buffers that would result in partial or secondary loss of agricultural land shall not be recommended by the Agricultural Commissioner.</i></p>	Ongoing	Planning, YCRCD	Request to CDFG	Incorporate into CCRMP	
Impact 4.5-3: Potential Impacts of Agricultural Activities on the Success of Habitat Restoration	<p><i>Mitigation Measure 4.5-3a</i></p> <p><i>Implementation of policies contained in the CCRMP and Mitigation Measures 4.5-2a and 4.5-2b would mitigate potential impacts of agriculture on habitat.</i></p>	Refer to Mitigation Measures 4.5-2a and 4.5-2b				

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<p>Impact 4.6-2: Impact on Sensitive Natural Community Types</p>	<p><i>Mitigation Measure 4.6-2a</i></p> <p><i>The following text shall be deleted from the additional Action policy in Chapter 4 of the CCRMP:</i></p> <p><i>4.4-12 Performance standards identifying planting procedures and methods, soil amendments and stabilizers, and appropriate species and planting densities for marshland, oak woodland, and riparian woodland restoration efforts should be considered guidelines. Variations from these guidelines shall be acceptable if alternative restoration plans have been prepared by a qualified biologist, consistent with the policies of the CCRMP, and approved by the Resources Management Coordinator or Planning Commission, depending on the magnitude of the proposed modification.</i></p> <p><i>Performance Standard 4.5-13(g) shall be revised to eliminate creeping wild rye, slender wheatgrass, reed canary grass, and yerba mansa from the planting list for marsh restoration plans.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>Prior to Creek Improvement Projects</p>	<p>Planning</p> <p>Planning</p>	<p>Submittal of Habitat Restoration Plan</p> <p>Adoption of CCRMP and CCIP</p>	<p>Require as a Standard Condition</p> <p>Incorporate into CCRMP</p>	
<p>Impact 4.6-3: Disturbance to Wildlife Habitat and Wildlife Movement Corridors</p>	<p><i>Mitigation Measure 4.6-3a</i></p> <p><i>The following shall be incorporated as additional Actions in Chapters 4 and 5 of the CCRMP:</i></p> <p><i>4.4-13 and 5.4-8. Avoid disturbance to important wildlife habitat features such as nest trees, colonial breeding locations, elderberry host plants for VELB, and essential cover associated with riparian forest and oak woodland habitat. This should include sensitive siting of, maintenance access, trails, and recreational facilities away from these features.</i></p> <p><i>Goal 5.2-3 of the CCRMP shall be revised as follows:</i></p> <p><i>5.2-3 Ensure the compatibility of recreational facilities with surrounding land uses and sensitive wildlife habitat, in order to minimize adverse impacts.</i></p>	<p>Ongoing</p> <p>Prior to Development of Recreational Facilities</p>	<p>Planning</p> <p>Planning</p>	<p>Submittal of Creek Improvement Project Work Plans</p> <p>Submittal of Habitat Restoration Plan</p>	<p>Require as a Standard Condition</p> <p>Incorporate into Future Recreation Plan</p>	

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MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
<p>Impact 4.6-4: Impact on Special-Status Species</p>	<p><i>Mitigation Measure 4.6-4a</i></p> <p><i>The new Action (4.4-13) required in Mitigation Measure 4.6-3a would provide protection of essential habitat features for special-status species.</i></p> <p><i>The following shall be included as an additional action in Chapter 4 of the CCRMP:</i></p> <p><i>4.4-14. A biological data base search shall be completed prior to implementation of priority projects. The data base shall compile existing information on occurrences of special-status species and areas supporting sensitive natural communities which should be considered for preservation. Where detailed information is not available, the data base shall be supplemented by reconnaissance-level field surveys to confirm the presence or absence of populations of special-status species, location of elderberry shrubs, and extent of sensitive natural communities along the previously unsurveyed creek segment. Essential habitat for special-status species shall be protected and enhanced as part of restoration efforts, or replaced as part of mitigation plans prepared by a qualified biologist.</i></p> <p><i>The following revisions shall be made to Performance Standard 4.4-4 of the CCRMP:</i></p> <p><i>4.4-4 Coordinate with the Cache Creek Conservancy, the H.A.W.K program, the Yolo County Flood Control and Water Conservation District, the California Department of Fish and Game, the U.S. Fish and Wildlife Service, and the U.S. Army Corps of Engineers to ensure that habitat restoration projects proposed by these and other entities are consistent with the Cache Creek Resources Management Plan. Restoration plans shall compliment the preservation and enhancement measures in the Yolo County Habitat Conservation Plan.</i></p>	<p>Refer to Mitigation Measure 4.6-3a</p> <p>Prior to Creek Improvement Projects</p> <p>Ongoing</p>	<p>Planning</p> <p>Planning, CCC, HAWK, YCFC&WCD, CDFG, USFWS, USACOE</p>	<p>Submittal of Habitat Restoration Plan/Creek Improvement Project Work Plan</p> <p>Adoption of CCRMP and CCIP</p>	<p>Incorporate into CCRMP</p> <p>Incorporate into CCRMP</p>	
<p>Impact 4.6-5: Modifications to Jurisdictional Wetlands or Other Waters</p>	<p><i>Mitigation Measure 4.6-5a</i></p> <p><i>The following shall be included as an additional Action in Chapter 4 of the CCRMP:</i></p> <p><i>4.4-15. Coordinate with jurisdictional agencies to establish "blanket" permits and agreements to ensure a consistent multi-agency approach to managing the creek.</i></p>	<p>Ongoing</p>	<p>Planning</p>	<p>Adoption of CCRMP and CCIP</p>	<p>Incorporate into CCRMP</p>	

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MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Impact 4.6-6: Compatibility and Consistency of Restoration Provisions	<p><i>Mitigation Measure 4.6-6a</i></p> <p><i>The following shall be included as an additional Action in Chapter 4 of the CCRMP:</i></p> <p><i>4.4-16 Modifications to the in-channel areas shall be reviewed and approved by the Technical Advisory Committee to ensure that sensitive biological resources are protected and enhanced, that restoration plans are consistent with the policies of the CCRMP, and that the various habitat restoration projects are compatible.</i></p> <p><i>Action 4.4-4 shall be revised as recommended in Mitigation Measure 4.4-6a.</i></p>	<p>Ongoing</p> <p>Refer to Mitigation Measure 4.4-6a</p>	<p>Planning, TAC</p>	<p>Submittal of Habitat Restoration Plans</p>	<p>Incorporate into CCRMP</p>	
Air Quality						
Impact 4.7-1: Potential Emissions of PM-10	<p><i>None Required.</i></p>					
Impact 4.7-2: Potential Emissions of Ozone Precursors (ROG and NOx)	<p><i>Mitigation Measure 4.7-2a</i></p> <p><i>None required, however, the following is recommended.</i></p> <p><i>The following new Performance Standard should be included in the CCRMP:</i></p> <p><i>All internal combustion engine driven equipment and vehicles shall be kept tuned according to the manufacturers specifications and properly maintained to minimize the leakage of oils and fuels. No vehicles or equipment shall be left idling for a period of longer than 10 minutes.</i></p>	<p>Ongoing</p>	<p>Applicant</p>	<p>Compliance with Manufacturer's Specifications and Proper Maintenance</p>	<p>Require as a Standard Condition</p>	
Impact 4.7-3: Cumulative Effects on Attainment of State and Federal Standards	<p><i>Mitigation Measure 4.7-3a</i></p> <p><i>Implement Mitigation Measures for Impact 4.7-2.</i></p>	<p>Refer to Mitigation Measure 4.7-2a</p>				
Traffic and Circulation						
Impact 4.8-1: Potential Increase in Vehicle Trips	<p><i>None required.</i></p>					
Impact 4.8-2: Potential for Traffic Impacts During Bridge Reconstruction	<p><i>None required.</i></p>					

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MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Impact 4.8-3: Potential Change in LOS at the State Route 16/Road 98/Main Street Intersection	<i>None required.</i>					
Impact 4.8-4: Potential change in LOS at the State Route 16/Road 89 Intersection	<i>None required.</i>					
Impact 4.8-5: Potential Impacts to the Non-Standard Segment of Road 19, West of Interstate 505	<i>None required.</i>					
Impact 4.8-6: Potential Impacts to the Non-Standard Segment of State Route 16 Between I-505 and the Entrance to the Solano Concrete Plant	<i>None required.</i>					
Impact 4.8-7: Potential Impacts to the Non-Standard Segment of Road 14, West of Interstate 505	<i>None required.</i>					
Impact 4.8-8: Potential Impacts to the Non-Standard Pavement Segment of Road 14, West of Interstate 505	<i>None required.</i>					
Impact 4.8-9: Potential Impacts to Two Non-Standard Bridges on Road 89, North of State Route 16	<i>None required.</i>					
Impact 4.8-10: Potential Impacts to a Non-Standard Bridge on Road 19, West of Interstate 505	<i>None required.</i>					

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MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Impact 4.8-11: Potential Impacts to a Non-Standard Bridge on Road 85, North of Road 16A	<i>None required.</i>					
Impact 4.8-12: Potential Impacts to a Non-Standard Bridge on Road 14, West of Interstate 505	<i>None required.</i>					
Impact 4.8-13: Potential Impacts to the Non-Standard Curve Radii at the Road 85 / Road 14 Intersection	<i>None required.</i>					
Impact 4.8-14: Potential Impacts to the Non-Standard Curve Radii at the State Route 16 / Road 89 Intersection	<i>None required.</i>					
Impact 4.8-15: Potential Impacts to the Non-Standard Curve Radii at the Road 20 / Road 96 Intersection	<i>None required.</i>					
Impact 4.8-16: Potential for Accelerated Pavement Deterioration	<i>None required.</i>					
Noise						
Impact 4.9-1: Exposure to Unacceptable Noise Levels from Channel Stabilization and Erosion Control	<i>None required.</i>					
Impact 4.9-2: Exposure to Unacceptable Increases in Traffic Noise	<i>None required.</i>					

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MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Impact 4.9-3: Exposure to Noise from Future Passive Use of Open Space Areas along the Creek	<p><i>Mitigation Measure 4.9-3a</i></p> <p><i>The following shall be added to the CCRMP as a new Performance Standard:</i></p> <p><i>5.5-9: Noise analyses shall be conducted for proposed recreational uses where medium to large groups would congregate in common use areas. The study shall identify likely sources of noise and ways to reduce levels to minimize annoyance at adjacent properties.</i></p>	Prior to Development of Recreational Facilities	Planning	Submittal of Acoustical Analysis	Incorporate into Future Recreation Plan	
Impact 4.9-4: Exposure to Cumulative Noise Impacts	<p><i>None required.</i></p>					
<p>Aesthetics</p>						
Impact 4.10-1: Effects on the Visual Character and Quality of Cache Creek.	<p><i>None required.</i></p>					
Impact 4.10-2: Introduction of New Sources of Light and Glare	<p><i>None required.</i></p>					
Impact 4.10-3: Consistency with Yolo County General Plan Policies	<p><i>None required.</i></p>					
Impact 4.10-4: Contribution to Cumulative Changes in Regional Visual Quality	<p><i>None required.</i></p>					

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Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Cultural Resources						
<p>Impact 4.11-1: Potential Impacts to Cultural Resources</p>	<p><i>Mitigation Measure 4.11-1a</i></p> <p><i>Performance Standard 6.5-2 of the CCRMP shall be modified as follows:</i></p> <p><i>If human skeletal remains are encountered during excavation, all work within seventy-five (75) feet shall immediately stop, and the County Coroner shall be notified within twenty-four (24) hours. If remains are of Native American origin, the appropriate Native American community identified by the Native American Heritage Commission shall be contacted, and an agreement for treating or disposing, with appropriate dignity, of the remains and associated grave goods shall be developed. If any cultural resources such as chipped or ground stone, historical debris, building foundations, or paleontological materials are encountered during excavation, then all work within seventy-five (75) feet shall immediately stop and the Director shall be notified at once. Any cultural resources found on the site shall be recorded by a qualified archaeologist and the information shall be submitted to the County.</i></p> <p><i>An additional Performance Standard shall be added to the CCRMP as follows:</i></p> <p><i>Damaging effects on cultural resources shall be avoided whenever possible. If avoidance is not feasible, the importance of the site shall be evaluated by a qualified professional prior to commencement of excavation operations. If a cultural resource is determined not to be important, both the resource and the effect on it shall be reported to the County, and the resource need not be considered further. If avoidance of an important cultural resource is not feasible, a mitigation plan shall be prepared and implemented. The mitigation plan shall explain the importance of the resource, describe the proposed approach to mitigate destruction or damage to the site, and demonstrate how the proposed mitigation would serve the public interest.</i></p>	<p>During Creek Improvement Projects</p> <p>During to Creek Improvement Projects</p>	<p>Applicant and County Coroner</p> <p>Planning</p>	<p>Adoption of CCRMP</p> <p>Submittal of Mitigation Plan</p>	<p>Require as a Standard Condition</p> <p>Require as a Standard Condition</p>	

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Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
<p>Impact 4.12-2: Historic and Future Pesticide Use May Affect the Environment and the Health and Safety of Workers Engaged in Creek Management Activities</p>	<p><i>Mitigation 4.12-2a</i></p> <p><i>The following Objective and Performance Standard shall be added to the CCRMP. In addition to these additions, Action 3.4-3 has been revised in Section 4.4, Hydrology to include the analysis of pesticides for annual water monitoring activities.</i></p> <p><i>Objective 3.3-5: Eliminate water quality impacts from the use of pesticides, fertilizers, and other soil amendments in the channel.</i></p> <p><i>Performance Standard 3.5-5: Water quality data collected from Cache Creek shall be regularly evaluated by a trained professional to determine whether the use of chemicals in the habitat restoration areas is affecting water quality. If chemicals are used and a correlation between use and degradation of water quality is established, use of chemicals in the habitat restoration areas shall be reevaluated.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>Ongoing (Annually)</p>	<p>Planning</p> <p>Planning</p>	<p>Adoption of CCRMP and CCIP</p> <p>Submittal of Water Quality Monitoring Program</p>	<p>Incorporate into CCRMP</p> <p>Incorporate into CCMP</p>	
<p>Impact 4.12-3: Open Bodies of Water May Become Breeding Areas for Mosquitoes. An Increase in the Mosquito Population Could Adversely Affect the Public Health</p>	<p><i>Mitigation Measure 4.12-3a</i></p> <p><i>None required.</i></p> <p><i>While the impacts associated with this alternative would be less-than-significant, it is recommended that the CCRMP be amended to include the following policies in Chapter 3 as follows:</i></p> <p><i>Goal 3.2-5: Provide habitat restoration without increasing generation of mosquitoes.</i></p> <p><i>Objective 3.3-6: Minimize mosquito generating potential in habitat restoration areas.</i></p> <p><i>Action 3.4-6: Coordinate all habitat restoration efforts with the Sacramento-Yolo Mosquito and Vector Control District.</i></p>	<p>Prior to Creek Improvement Projects</p> <p>Prior to Creek Improvement Projects</p> <p>Ongoing</p>	<p>Planning, SYMVCD</p> <p>Planning, SYMVCD</p> <p>Planning, SYMVCD</p>	<p>Submittal of Habitat Restoration Plan</p> <p>Submittal of Habitat Restoration Plan</p> <p>Adoption of CCRMP and CCIP</p>	<p>Incorporate into CCRMP</p> <p>Require as a Standard Condition</p> <p>Incorporate into CCRMP</p>	

**CCRMP
MITIGATION MONITORING PLAN**

Environmental Impact	Mitigation Measures	Reporting/ Monitoring Requirement	Responsibility for Compliance	Method for Compliance	Enforcement	Checkoff Date/Initials
Public Services and Utilities						
Impact 4.13-1: Potential Increase in Demand for Public Services	<p><i>Mitigation Measure 4.13-1a</i></p> <p><i>None required, however, the following is recommended:</i></p> <p><i>The County shall identify the costs of implementing the policies contained in the CCRMP, and determine a fair-share cost program for reimbursement by gravel operators and any other affected parties.</i></p>	Prior to Creek Improvement Projects	Planning	Preparation of Fair-Share Cost Program	Incorporate into CCRMP	