Western Grove Obstruction Removal Project for the Nut Tree Airport Mitigation Monitoring Program					
Mitigation Measure	**Timing/Frequency of Action**	**Implementation Responsibility**	**Monitoring Responsibility**	**Compliance Standard**	**Verification (Name, Date, Remarks)**
Air Quality					
Mitigation Measure AIR-1: Implement standard emission control measures. The County shall require construction contractors to implement standard emission control measures and best management practices (BMPs) during all construction phases. All construction contracts shall identify and comply with implementation of dust control practices and other construction control measures identified by YSAQMD rules and regulations in effect at the time or obstruction removal. Standard control measures shall include, but not be limited to the following: • Water exposed soil with adequate frequently to keep soil most at all times; and • Cover all trucks hauling materials or maintain at least 2 feet of freeboard.	During tree removal activities	Contractor	County	YSAQMD Rules and Regulations	1. Include these requirements in RFP for Construction Contractors.
Biological Resources					
Mitigation Measure BIO-1. Conduct Tree Removal Outside of the Nesting Season. Project-related disturbances to the Western Grove shall occur outside of the nesting season for the Swainson's Hawk and other raptors. The nesting season is typically from February 15 through August 31. If any nesting birds or unfledged young are documented within or adjacent to the project area after August 31, buffers will be established surrounding the nest in accordance with California Department of Fish and Wildlife (DFW) guidance to avoid "take".	Prior to tree removal activities	Solano County	CDFW	Survey by a qualified biologist	

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Mitigation Measure BIO-2. Conduct Pre-construction Surveys for Nesting Raptors. A qualified wildlife biologist shall conduct three pre-construction surveys for nesting Swainson's hawks and other potential raptors located on or within 0.25 mile of the site. The surveys shall occur once in the breeding season, once approximately 30 days prior to all project-related construction activities, and again at least seven days prior to the construction period.	Prior to construction	Solano County	CDFW	Survey by a qualified biologist	
Mitigation Measure BIO-3. Provide Approved off-site Areas to Compensate for the loss of Nesting Habitat. One tree in the West Grove has been used by Swainson's hawk in the past and is presently used annually by red-tail hawks. The County shall consult with CDFW to obtain authorization for the removal of this tree. The County shall provide compensatory nesting habitat consisting of new native trees suitable for use as nesting habitat at maturity at an off-site location approved by DFW as a condition of their authorization. The County shall provide for the planting of approximately 1,150 native trees by the Putah Creek Council. The trees shall be planted in an off-site area adjacent to Putah Creek to create riparian habitat and replacement nesting habitat for raptors. The trees shall be planted in the following quantities on a 6-acre area at the following replacement ratios. • Trees that are less than 12 inches diameter at breast height (DBH) shall be replaced at a 1:1 ratio, for a total of 481 trees. • Trees that are more than 12 inches but less than 24 inches DBH will be replaced at a ratio of 2:1, for a total of 338 trees. • Trees that are more than 24 inches shall be replaced at a 3:1 ratio, for a total of 153 trees. • Native trees will be replaced at 10:1 ratio, for a total 60 trees. • An additional 118 trees are added to account for young eucalyptus trees to be removed downstream of the Western Grove.	Prior to tree removal activities.	Solano County	Solano County and the Putah Creek Council.	Submittal of Mitigation Plan and Approval by CDFW.	

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Mitigation Measure BIO-4. Conduct Pre-construction Surveys for Burrowing Owls. A qualified wildlife biologist familiar with burrowing owl behavior and life history shall conduct three preconstruction surveys. One survey will be conducted during the breeding season, one will be conducted no more than 30 days prior to scheduled work within known or suitable habitat areas, and one will be conducted no sooner than seven days before construction activities. Each survey shall include a minimum of one burrow survey to assess a site's potential to support owls. If suitable burrows are identified, an additional survey shall be conducted during the period from one hour before sunrise to two hours after sunrise or during the period from two hours before sunset to one hour after sunset, and the extent of burrowing owl habitat shall be delineated. Surveys shall be conducted without regard to season. If ground-disturbing activities are delayed or suspended for more than 30 days after the pre-construction survey, the site shall be resurveyed by a qualified wildlife biologist.	Prior to construction	Solano County	CDFW	Survey by a qualified biologist	
Mitigation Measure BIO-5. Create an Exclusion Zone During Construction Activities. **If burrowing owls are present, the following measures shall be implemented during construction activities:** • During the non-breeding season (September 1 to January 31), a 50-meter- (160-foot-) radius exclusion zone shall be established around occupied burrows. If an exclusion zone cannot be established (except as provided below), burrowing owls shall be evicted from the entire construction area using passive relocation techniques.	Prior to tree removal activities.	Solano County	CDFW	Survey by a qualified biologist	

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• During the breeding season (February 1 to August 31), a qualified wildlife biologist shall establish a 75-meter- (250-foot-) radius exclusion zone around each occupied burrow. No construction-related activity (e.g., tree falling, removal or marking) shall occur within the exclusion zone until the burrows are confirmed to be unoccupied and/or juveniles from the nest are capable of independent survival. Only biologists familiar with burrowing owl behavior shall be permitted to determine whether juveniles are capable of independent survival. Once the burrows are unoccupied or the young are capable of independent survival, passive relocation techniques shall be implemented to evict the owls from the burrows prior to allowing construction within the exclusion zone. • Before any burrow exclusion or burrow closure is undertaken, a Burrowing Owl Exclusion Plan shall be prepared and submitted to California DFG.					
Mitigation Measure BIO-6. Provide Off-site Foraging Habitat for Burrowing Owls. Suitable off-site burrowing owl foraging habitat shall be provided at a 1:1 ratio or at another ratio as requested by CDFW. This measure may be satisfied currently with the Swainson's hawk nesting and foraging habitat mitigation described in Mitigation Measure BIO-3.	Prior to tree removal activities	Solano County	CDFW	Submittal of a mitigation plan and approval by CDFW.	
Mitigation Measure BIO-7. Consult with Federal and State Agencies and Obtain Appropriate Permits/Authorizations. As described in the project description, the County shall obtain a Section 1602 Streambed Alteration Agreement from the California DFW and Water Quality Certification from the Sacramento Regional Water Quality Control Board.	Prior to tree removal activities	Solano County	CDFW	Submittal of a mitigation plan and approval by CDFW and RWQCB.	

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Mitigation Measure BIO-8. Minimize Disturbance to Creek Channels. The County shall minimize disturbance to the Horse Creek stream channel to the extent practicable during tree removal through the following activities: • Tree removal and construction shall occur during that part of the dry season that does not overlap with raptor nesting season: September 1 through October 15. The end of this period may be extended if significant rains do not occur. • Contractor staging and travel routes will be clearly identified to avoid riparian areas, and access to the site will be provided by existing roadways and creek crossings over Horse Creek and the South Branch of Horse Creek. • Contractors will avoid felling trees within the Horse Creek channel to the degree practical. All tree removal and mulching activities will occur on the same side of the creek upon which trees are felled. For example, Contractors will use the levee road adjacent to the Putah South Canal for access during the approximatefour-week construction period. Access by construction crews will be via an existing, elevated roadway located on private property adjacent to the site. • The Contractor shall be required to prepare and implement a Storwm Water Pollution Prevention Plan in accordance with the requirements of the State Water Quality Control Board. The SWPPP shall include Best Management Practices (BMPs) to prevent temporary or impacts to stream channels.	During tree removal activities	Solano County	Solano County	DFG guidance pertaining to Lake and Streambed Alteration Agreements	

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Mitigation Measure BIO-9. Provide re-vegetation of riparian Areas as riparian woodland to compensate for temporary and permanent impacts. On-site riparian areas that are disturbed during tree removal will be re-vegetated using herbaceous species that have a low potential to attract potentially hazardous wildlife in accordance with FAA guidance pertaining to wildlife hazard attractants on and near airports. An FAA-qualified wildlife biologist shall review the proposed vegetation plan to determine whether the proposed species are appropriate for planting adjacent to an airport. Riparian woodland mitigation will be provided at an off-site mitigation area in conjunction with the off-site nesting habitat mitigation prescribed in Mitigation Measure BIO-3. The proposed off-site mitigation plans shall be prepared by a qualified biologist and submitted to CDFW for review and approval as part of the Section 1602 Streambed Alteration Agreement application.	During tree removal activities	Solano County and Contractor	Solano County	Review and Approval of a proposed re-vegetation plan by an FAA-qualified wildlife hazard damage biologist.	
Cultural Resources					
Mitigation Measure CUL-1: Stop work if cultural materials are discovered. If unanticipated cultural materials are discovered, all project activities will cease until a qualified archaeologist evaluates the resource.	During tree removal activities.	Contractor	County		

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Mitigation Measure CUL-2: Stop Work if Human Remains are Discovered. If human remains are encountered, the County Coroner shall be contacted immediately. If the County coroner determines that the remains are Native American, the project proponent will contact the NAHC, in accordance with Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98 (as amended by AB 2641). Per Public Resources Code 5097.98, the County, as the landowner, shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the County has discussed and conferred, as prescribed in this section (PRC 5097.98), with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. A report outlining the find shall be prepared and submitted to the County.	During tree removal activities.	Contractor	County	Health and Safety Code Section 7050.5, subdivision (c), Public Resources Code 5097.98	