

MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party
Air Quality				
AQ-1	<p>The following measures shall be implemented and shown on grading and building plans to minimize construction-generated fugitive dust emissions:</p> <ol style="list-style-type: none"> a. All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water, using a chemical stabilizer/suppressant, or covered with a tarp or other suitable cover or vegetative ground cover; b. All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or SJVAPCD-approved chemical stabilizer/suppressant; c. All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking; d. When materials are transported off-site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the tip of the container shall be maintained; e. All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden; f. Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant; g. Within urban areas, track out shall be immediately removed when it extends 50 or more feet from the site and at the end of each workday; h. Any site with 150 or more vehicle trips per day shall prevent carryout and track out; i. Limit traffic speeds on unpaved roads to 15 miles per hour (mph); j. Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than 1 percent; k. Install wheel washers for all exiting trucks, or wash off all trucks and equipment leaving the site; 	Incorporation of specifications on construction plans	Prior to issuance of construction permits	Contractor

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	<ul style="list-style-type: none"> l. Install wind breaks at windward side(s) of construction areas; m. Suspend excavation and grading activity when winds exceed 20 mph; and n. Limit area subject to excavation, grading, and other construction activity at any one time. 			
AQ-2	<p>The following measures shall be implemented and shown on grading and building plans to minimize construction equipment-generated emissions:</p> <ul style="list-style-type: none"> a. Substitute alternative fueled or catalyst equipped diesel construction equipment, when available; b. Utilize the cleanest available off-road construction equipment, including the latest tier equipment; c. Minimize idling time to not exceed 10 minutes; d. Minimize the hours of operation of heavy-duty equipment and/or the amount of equipment in use to the greatest extent feasible; e. Replace fossil-fueled equipment with electrically driven equivalents (provided they are not run through a portable generator set) when available; f. Curtail construction during periods of high ambient pollutant concentrations if feasible; this may include ceasing of construction activity during the peak-hour of vehicular traffic on adjacent roadways; and g. Implement activity management (e.g., reschedule activities to reduce short-term impacts). 	Incorporation of specifications on construction plans	Prior to ground disturbance	Contractor
AQ-3	<p>Prior to any grading activities a geologic evaluation shall be conducted to determine if NOA is present within the area that will be disturbed. If NOA is not present, an exemption request must be filed with the SJVAPCD. If NOA is found at the site, the applicant must comply with all requirements outlined in the Asbestos ATCM. These requirements may include but are not limited to:</p> <ul style="list-style-type: none"> a. Development of an Asbestos Dust Mitigation Plan, which must be approved by the SJVAPCD before operations begin; and b. Development and approval of an Asbestos Health and Safety Program (required for some projects). <p>If NOA is not present, an exemption request must be filed with the SJVAPCD.</p>	Complete geologic evaluation and submit exemption request	Prior to ground disturbance	City/Contractor

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Biological Resources				
BIO-1	The proposed project design shall avoid impacts to the Sensitive Natural Community.	Ensure project design avoids Sensitive Natural Community	Prior to ground disturbance	City
BIO-2	Construction equipment shall be operated and staged in upland areas outside of the Sensitive Natural Community.	Site verification that measures are implemented and maintained during construction	Prior to commencement of site preparation and during construction	City and contractor
BIO-3	Foot traffic from construction activities shall avoid entering the Sensitive Natural Community.	Site verification that measures are implemented and maintained during construction	During site preparation and construction	City and contractor
BIO-4	Silt fencing shall be erected at a 10-foot distance from the creek bank in areas where the Sensitive Natural Community occurs to avoid sediment deposition.	Site verification that measures are implemented and maintained during construction	Prior to commencement of ground disturbance	City and contractor
BIO-5	Construction fencing shall be erected around the Sensitive Natural Community to avoid any impacts from foot or vehicle traffic.	Site verification that measures are implemented and maintained during construction	Prior to commencement of ground disturbance	City and contractor
BIO-6	<p>During construction, the project contractor will make all reasonable efforts to limit the use of imported soils for fill. Soils currently existing on-site shall be used for fill material. If the use of imported fill material is necessary, the imported material must be obtained from a source that is known to be free of invasive plant species, or the material must consist of purchased clean material, such as crushed aggregate, sorted rock, or similar. To avoid the spread of invasive species, the contractor shall:</p> <ol style="list-style-type: none"> a. Stockpile topsoil and redeposit the stockpiled soil on-site at a sufficient depth to preclude germination or spread of those species after construction is complete; or b. Transport the topsoil to a permitted landfill for disposal. 	Limit the use of imported soils for fill	Prior to and during construction	Contractor

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BIO-7	Prior to construction, project plans will clearly identify the type of species, location, and method of removal and disposal of invasive species found within the project site.	Verify project plans identify invasive species, location, and method of removal and disposal	Prior to construction	City
BIO-8	Removal and disposal of invasive plants and wildlife must be in accordance with state law and/or project authorizations from resource agencies (e.g., USFWS Programmatic Biological Opinion).	Site verification that measures are implemented and maintained during construction	Prior to and during project activities	City and Contractor
BIO-9	During construction, the biological monitor(s) will ensure that the spread or introduction of invasive plant and wildlife species is avoided to the maximum extent possible.	Retain qualified biologist to ensure compliance with measure	During construction	City
BIO-10	All erosion control materials, including straw bales, straw wattles, or mulch, used on-site must be free of invasive species seed. Removal of invasive species would provide opportunities for planting native trees and shrubs to enhance the existing native plant communities.	Ensure all erosion control materials are free of invasive species seed	During construction	City and Contractor
BIO-11	Within 30 days prior to any ground disturbance, a pre-construction survey shall be conducted by the qualified biologist for special-status species that have the potential to occur within the project area. A letter report documenting the results of the pre-construction surveys shall be prepared and submitted to the City of Coalinga Planning Department for review and approval. If special-status species are identified during preconstruction surveys, project activities shall be modified (if necessary) and implemented in a manner that avoids all direct and indirect effects on these species. The City of Coalinga may coordinate with the California Department of Transportation and California Department of Fish and Wildlife, if necessary, to identify appropriate methods for avoiding all direct and indirect effects on special-status species within the project area.	Retain qualified biologist to ensure compliance with measure	Within 30 days prior to any ground disturbance	City
BIO-12	Prior to initiation of any site preparation/construction activities, the City of Coalinga will prepare and supply a PowerPoint presentation and sign-up sheets for all construction personnel. All individuals who will be involved in site preparation or construction activities will be required to review the PowerPoint presentation and acknowledge they reviewed the materials via the sign-up sheets. At a minimum, the presentation will include a description of the natural history of the species with the potential to be affected by the proposed project and their habitats, the general measures that are being implemented to conserve these species as they relate to the proposed project, the penalties for non-compliance, and the boundaries of the work area within which the project must be accomplished. To ensure that employees and contractors understand their roles and responsibilities, training may have to be conducted in languages other than English. The sign-up sheets will be returned to the City of Coalinga Planning Department.	Prepare and supply a PowerPoint presentation and sign-up sheets for all construction personnel.	Prior to initiation of any site preparation/construction activities	City

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BIO-13	<p>Prior to initiation of any site preparation and/or construction activities, the City of Coalinga will retain a qualified on-call biological monitor to provide oversight over ground-disturbing construction activities and implementation of avoidance and minimization efforts. The monitor will coordinate with the City of Coalinga Resident Engineer and the California Department of Transportation Local Assistance regarding any special-status species detections or requests to stop construction activities.</p>	<p>Retain qualified biologist to ensure compliance with measure</p>	<p>Prior to initiation of any site preparation and/or construction activities</p>	City
BIO-14	<p>Prior to any site preparation and/or construction activities associated with the proposed project, the City of Coalinga will implement the following measures to prevent impacts to burrowing owl:</p> <ul style="list-style-type: none"> a. A preconstruction survey will be conducted by a qualified biologist to determine the presence of burrowing owl nesting sites within the Biological Study Area. The survey shall be conducted no more than 30 days prior to any construction activities for each construction area. This will ensure that burrowing owl has not moved onto, and is not inhabiting, the project site. All potential burrows located within the construction and work areas will be monitored for 3 consecutive nights using tracking medium at the burrow entrance to determine the current use. If no owl activity is observed during this period, the burrow will be destroyed immediately to preclude subsequent use. b. If active burrowing owl nest sites are found within the project area, the City of Coalinga shall comply with the California Department of Fish and Wildlife's 2012 Staff Report on Burrowing Owl Mitigation. 	<p>Retain qualified biologist to ensure compliance with measure</p>	<p>Prior to initiation of any site preparation and/or construction activities</p>	City
BIO-15	<p>If construction activities are conducted during the typical nesting bird season (February 15 through September 15), preconstruction surveys will be conducted by a qualified biologist prior to any construction activity to identify potential nesting bird activity. The survey area will include a 0.5-mile buffer surrounding the project area. If no active nests are found within the study area, no further mitigation is required. If nesting activity is identified during the preconstruction survey process, the following measures will be implemented:</p> <ul style="list-style-type: none"> a. If active nest sites of bird species protected under the MBTA and California Fish and Game Code are observed within the project area, then the project will be modified and/or delayed as necessary to avoid direct take of the identified nests, eggs, and/or young; b. If active nest sites of raptors and/or bird species of special concern are observed within the vicinity of the project site, then the appropriate buffer around the nest site (typically 250 feet for passerines and 300 feet for raptors, not including Swainson's hawk) will be established. Construction activities in the buffer zone will be prohibited until the qualified biological monitor has determined that the young have fledged the nest and achieved independence; and c. Active nests should be documented by a qualified biologist, and a letter report will be submitted to the City of Coalinga documenting project compliance with the Migratory Bird Treaty Act and California Fish and Game Code. 	<p>Retain qualified biologist to ensure compliance with measure</p>	<p>Prior to initiation of any site preparation and/or construction activities</p>	City

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BIO-16	<p>Within 30 days prior to initiation of site disturbance and/or construction, a U.S. Fish and Wildlife Service-approved biologist will conduct a preconstruction survey for known or potential sensitive species, including San Joaquin kit fox dens, and submit a letter to the City of Coalinga Planning Department reporting the date the survey was conducted, the survey methodology, survey results, and what measures were necessary (and completed), as applicable, to address any San Joaquin kit fox activity within the project limits.</p>	<p>Retain qualified biologist to ensure compliance with measure</p>	<p>Within 30 days prior to initiation of site disturbance and/or construction</p>	City
BIO-17	<p>Prior to and during any site preparation and/or construction activities associated with the proposed project, the City of Coalinga and/or the project contractor will implement the following conservation measures:</p> <ol style="list-style-type: none"> a. Project employees will be directed to exercise caution when commuting within unpaved project areas. A 20-mile-per-hour speed limit will be enforced on unpaved roads. b. Project employees will be provided with written guidance governing vehicle use, speed limits on unpaved roads, fire prevention, and other hazards. c. A litter control program shall be instituted at the project site. All workers shall ensure their food scraps, paper wrappers, food containers, cans, bottles, and other trash from the project area are deposited in covered or closed trash containers. The trash containers shall be removed from the project area at the end of each working day. d. No canine or feline pets or firearms (except for federal, state, or local law enforcement officers and security personnel) shall be permitted on construction sites to avoid harassment, killing, or injuring of listed species. <ol style="list-style-type: none"> 1. At the end of each working day, maintenance and construction excavations greater than 2 feet deep shall be covered, filled-in, or equipped with earthen escape ramps no greater than 200 feet apart to prevent entrapment of listed species. e. All construction activities shall be confined within the project construction area, which may include temporary access roads, haul roads, and staging areas specifically designated and marked for these purposes. At no time shall equipment or personnel be allowed outside the project construction area without authorization from the City of Coalinga and/or biological monitor. f. Environmentally Sensitive Areas within the Project Impact Area, such as active burrows and trees to be preserved, shall be delineated with high visibility temporary fencing at least 4 feet in height, flagging, or other barrier to prevent encroachment of construction personnel and equipment onto any sensitive areas during project work activities. Such fencing shall be inspected and maintained daily until completion of the project. The fencing will be removed only when all construction equipment is removed from the site. g. If necessary, tightly woven fiber netting or similar material shall be used for erosion control or other purposes at the project site to ensure that special-status 	<p>Site verification that measures are implemented and maintained during construction</p>	<p>Prior to and during any site preparation and/or construction activities</p>	City and Contractor

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	<p>species do not get trapped. This limitation will be communicated to the contractor through use of Special Provisions included in the bid solicitation package.</p> <p>h. Use of rodenticides and herbicides at the project site shall be avoided to the maximum extent feasible to prevent primary or secondary poisoning of special-status species and depletion of prey populations on which they depend. In the event that the use of herbicides is necessary for invasive species control, all uses of such compounds shall observe labels and other restrictions mandated by the U.S. Environmental Protection Agency, California Department of Pesticide Regulation, and other appropriate federal and state regulations, as well as additional project-related restrictions deemed necessary by the U.S. Fish and Wildlife Service or the California Department of Fish and Wildlife.</p>			
BIO-18	<p>Prior to or during project activities, if any observations are made of San Joaquin kit fox, or any known or potential San Joaquin kit fox dens are discovered within the project limits, the qualified biologist will notify the City of Coalinga, and the City of Coalinga will contact the California Department of Transportation who, in turn, will contact the U.S. Fish and Wildlife Service to discuss ways to proceed with the project and avoid take. All work will stop until such time that the California Department of Transportation determines that it is appropriate to resume work.</p>	<p>Retain qualified biologist to ensure compliance with measure</p>	<p>Prior to and during construction activities</p>	<p>City and Contractor</p>
Cultural Resources				
CR-1	<p>Prior to construction activities, a representative(s) from the Santa Rosa Rancheria Tachi Yokut Tribe shall be retained to conduct cultural resource awareness training for all construction personnel including the following:</p> <ol style="list-style-type: none"> a. Review the types of archaeological artifacts that may be uncovered; b. Provide examples of common archaeological artifacts to examine; c. Review what makes an archaeological resource significant to archaeologists and local Native Americans; d. Describe procedures for notifying involved or interested parties in case of a new discovery; e. Describe reporting requirements and responsibilities of construction personnel; f. Review procedures that shall be used to record, evaluate, and mitigate new discoveries; and g. Describe procedures that would be followed in the case of discovery of disturbed as well as intact human burials and burial-associated artifacts. 	<p>Retain qualified archaeologist and coordinate with the Santa Rosa Rancheria Tachi-Yokut Tribe to conduct cultural resource awareness training</p>	<p>Prior to construction</p>	<p>City</p>

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CR-2	<p>Due to input received from the Santa Rosa Rancheria, an archaeological monitoring program will be implemented through the development of an Archaeological Monitoring Plan. The Plan should include, but not be limited to:</p> <ul style="list-style-type: none"> a. List of personnel involved in the monitoring activities; b. Description of Native American involvement; c. Description of how the monitoring shall occur; d. Description of frequency of monitoring (e.g., full time, part time, spot checking); e. Description of what resources are expected to be encountered; f. Description of circumstances that would result in the halting of work at the project site; g. Description of procedures for halting work on the site and notification procedures; h. Description of monitoring reporting procedures; and i. Specific, detailed protocols for what to do in the event of the discovery of human remains. j. Provide thresholds for reducing and or discontinuing monitoring in the event that resources are not present and/or the potential to encounter resources is negligible. 	<p>Retain qualified archaeologist to develop Archaeological Monitoring Plan</p>	Prior to construction	City
CR-3	<p>At the time of permitting, a Curation Agreement, in coordination with the Santa Rosa Rancheria Tachi Yokut Tribe, shall be established between a City-qualified repository and the City for the permanent curation of potentially recovered materials. The Curation Agreement shall include a Memorandum of Understanding (MOU) between the qualified repository and the City to identify the ownership of the materials in perpetuity; responsibilities of the repository and City; use of the collections; special procedures or restrictions; procedures for response to requests for study, analysis, casting, loan, exhibition and consumptive uses. The MOU shall also include an agreement that the repository shall not transfer, repatriate, sell, trade or discard a collection (or portion thereof); and the repository shall provide curatorial services in accordance with state standards.</p>	<p>Retain qualified archaeologist and coordinate with the Santa Rosa Rancheria Tachi-Yokut Tribe to develop a Curation Agreement</p>	At the time of permitting	City
CR-4	<p>If cultural resources are encountered during subsurface earthwork activities, all ground-disturbing activities within a 25-foot radius of the find shall cease and the City shall be notified immediately. Work shall not continue until a City-qualified archaeologist assesses the find and determines the need for further study. If the find includes Native American-affiliated materials, a local Native American tribal representative will be contacted to work in conjunction with the City-approved archaeologist to determine the need for further study. A standard inadvertent discovery clause shall be included in every grading and construction contract to inform contractors of this requirement. Any previously unidentified resources found during construction shall be recorded on appropriate California</p>	<p>Stop work and notify project proponent immediately in the event that a potentially significant cultural resource is encountered</p>	Prior to and during construction	Contractor

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	<p>Department of Parks and Recreation (DPR) forms and evaluated for significance in terms of CEQA criteria by a qualified archaeologist.</p> <p>If the resource is determined significant under CEQA, the qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan, in conjunction with locally affiliated Native American representative(s) as necessary, that will capture those categories of data for which the site is significant. The archaeologist shall also perform appropriate technical analysis, prepare a comprehensive report, and file it with the SSJVIC, located at the California State University, Bakersfield, and provide for the permanent curation of the recovered materials.</p>			
CR-5	<p>In the event that human remains are exposed during ground-disturbing activities associated with the project, an immediate halt work order shall be issued, and the City Assistant Manager and locally affiliated Native American representative(s) (as necessary) shall be notified. California Health and Safety Code Section 7050.5 requires that no further disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98. If the remains are determined to be of Native American descent, the coroner shall notify the Native American Heritage Commission (NAHC) within 24 hours. These requirements shall be printed on all building and grading plans.</p>	<p>Inform project contractor and staff of the potential to encounter human remains and follow specified notification protocol</p>	<p>Prior to and during construction</p>	<p>City and Contractor</p>
Hazards and Hazardous Materials				
HAZ-1	<p>Prior to ground disturbance in the vicinity of the former railroad track alignment adjacent to the area east of Segment 2, soil sampling shall be conducted for polycyclic aromatic hydrocarbons, total petroleum hydrocarbons, polychlorinated biphenyls, organochlorine pesticides, chlorinated herbicides, and metals.</p>	<p>Soil sampling results shall be submitted to the City prior to ground disturbance</p>	<p>Prior to ground disturbance</p>	<p>City and Contractor</p>
HAZ-2	<p>Prior to ground disturbance at the western termini of Segments 1 and 2, the eastern terminus of Segment 14, and along the length of Segments 1, 13, and 14, soil sampling shall be conducted for aerially deposited lead.</p>	<p>Soil sampling results shall be submitted to the City prior to ground disturbance</p>	<p>Prior to ground disturbance</p>	<p>City and Contractor</p>
HAZ-3	<p>During ground disturbance, for any previously unknown hazardous waste/material encountered as part of construction of the proposed project, the procedures outlined in Caltrans Unknown Hazards Procedures shall be followed.</p>	<p>Site verification that measures are implemented and maintained during construction</p>	<p>During ground disturbance</p>	<p>City and Contractor</p>
Noise				
N-1	<p>During project construction, construction activities shall be limited to the hours between 7:00 a.m. and 7:00 p.m. in accordance with the City's Safety, Air Quality and Noise Element. Construction equipment maintenance shall be limited to the same hours.</p>	<p>Include hours of construction on construction plans</p>	<p>During construction</p>	<p>City and Contractor</p>

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	<p>Construction activities that do not require the use of mechanical equipment are not subject to these restrictions.</p> <p>Stationary construction equipment that generates noise that exceeds 65 dBA at the project boundaries shall be shielded with the most modern noise control devices (i.e., mufflers, lagging, and/or motor enclosures). Impact tools (e.g., jack hammers, pavement breakers, rock drills) used for project construction shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used.</p>	<p>and ensure compliance through site verification.</p>		
N-2	<p>All equipment shall be properly maintained to ensure that no additional noise, due to worn or improperly maintained parts, is generated. Stockpiling and vehicle staging areas shall be located as far as practical from sensitive noise receptors. Every effort shall be made to create the greatest distance between noise sources and sensitive receptors during construction activities.</p>	<p>Ensure compliance through site verification.</p>	During construction	City and Contractor