

MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party
<i>Air Quality</i>				
MM AQ-1	<p>Idling Control Techniques. During all construction activities and use of diesel vehicles, the applicant shall implement the following idling control techniques:</p> <ol style="list-style-type: none"> 1. <u>Idling Restrictions Near Sensitive Receptors for Both On- and Off-Road Equipment.</u> <ol style="list-style-type: none"> a. Staging and queuing areas shall not be located within 1,000 feet of sensitive receptors, if feasible; b. Diesel idling within 1,000 feet of sensitive receptors shall not be permitted; c. Use of alternative-fueled equipment shall be used whenever possible; and d. Signs that specify the no idling requirements shall be posted and enforced at the construction site. 2. <u>California Diesel Idling Regulations.</u> On-road diesel vehicles shall comply with 13 California Code of Regulations (CCR) 2485. This regulation limits idling from diesel-fueled commercial motor vehicles with gross vehicular weight ratings of more than 10,000 pounds and licensed for operation on highways. It applies to California and non-California based vehicles. In general, the regulation specifies that drivers of said vehicles: <ol style="list-style-type: none"> a. Shall not idle the vehicle's primary diesel engine for greater than 5 minutes at any location, except as noted in Subsection (d) of the regulation; and b. Shall not operate a diesel-fueled auxiliary power system (APS) to power a heater, an air conditioner, or any ancillary equipment on that vehicle during sleeping or resting in a sleeper berth for greater than 5 minutes at any location when within 1,000 feet of a restricted area, except as noted in Subsection (d) of the regulation. <p>Signs must be posted in the designated queuing areas and job sites to remind drivers of the 5-minute idling limit. The specific requirements and exceptions in the regulation can be reviewed at the following website: www.arb.ca.gov/msprog/truck-idling/2485.pdf.</p>	The construction contractor shall implement idling control techniques.	During all construction activities	Project Applicant, San Luis Obispo Air Pollution Control District

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MM AQ-2	<p>Asbestos Material in Demolition. Demolition activities can have potential negative air quality impacts, including issues surrounding proper handling, demolition, and disposal of asbestos-containing material (ACM). ACMs could be encountered during demolition or remodeling of the existing bridge. Asbestos can also be found in utility pipes/pipelines (transite pipes or insulation on pipes). If utility pipelines are scheduled for removal or relocation or a building(s) is proposed to be removed or renovated, various regulatory requirements may apply, including the requirements stipulated in the National Emission Standard for Hazardous Air Pollutants (NESHAP; 40 Code of Federal Regulations [CFR] 61, Subpart M - asbestos NESHAP). These requirements include but are not limited to: (1) notification to the APCD; (2) an asbestos survey conducted by a Certified Asbestos Inspector; and (3) applicable removal and disposal requirements of identified ACM. More information on asbestos can be found at: http://www.slcleanair.org/business/asbestos.php.</p>	<p>The construction contractor shall implement requirements stipulated in the National Emission Standard for Hazardous Air Pollutants (NESHAP; 40 Code of Federal Regulations [CFR] 61, Subpart M - asbestos NESHAP).</p>	<p>During demolition activities</p>	<p>Project Applicant, San Luis Obispo Air Pollution Control District</p>
Biological Resources				
MM BIO-1	<p>Preconstruction Botanical Surveys. Prior to construction, a preconstruction survey shall be conducted to ensure special-status plant species are not present within the project area. If Gambel's watercress or marsh sandwort are found within the project area, all work will be stopped immediately, the U.S. Fish and Wildlife Service will be notified, and work will not commence until consultation is completed. If other special-status plant species are present, the location and number of individuals will be recorded and suitable measures will be incorporated into the project plans, such as seed collection and replanting of special-status species, to avoid and/or minimize potential impacts to these species. Observations of these or other special-status species shall be documented on California Natural Diversity Database forms and submitted to the California Department of Fish and Wildlife upon project completion.</p>	<p>Survey results shall be submitted to the City of Arroyo Grande.</p>	<p>Prior to construction activities</p>	<p>Project Applicant</p>
MM BIO-2	<p>Invasive Species Control. The following measures shall be implemented to reduce potential impacts related to the spread of invasive species:</p> <ol style="list-style-type: none"> 1. During construction, the project contractor will make all reasonable efforts to limit the use of imported soils for fill. Soils currently existing on-site should 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 	<p>The construction contractor shall implement measures to reduce the spread of invasive species.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>

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	<p>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. <p>2. Prior to construction, project plans will clearly identify the type of species, location, and methodology of removal and disposal of invasive exotic species found within the project site. Removal and disposal of invasive exotic plants and wildlife must be in accordance with state law and/or project authorizations from resource agencies (e.g., U.S. Fish and Wildlife Service Programmatic Biological Opinion). In particular, for those invasive exotic plant species that are particularly difficult to remove (e.g., jubata grass [<i>Cortaderia jubata</i>]), a combination of cutting and application of herbicide would likely be required, and thus require a request for an amendment to the standard conditions of the U.S. Fish and Wildlife Service Programmatic Biological Opinion. In addition, removal of crayfish or bullfrog (<i>Lithobates catesbeiana</i>) must be conducted lawfully using methodologies outlined in the California Fish and Game Code.</p> <p>3. During construction, the biological monitor(s) will ensure that the spread or introduction of invasive exotic plant and wildlife species is avoided to the maximum extent possible.</p> <p>4. All erosion control materials including straw bales, straw wattles, or mulch used on-site must be free of invasive species seed.</p>			
<p>MM BIO-3</p>	<p>California Red-Legged Frog. The following measures shall be implemented to reduce potential impacts to California red-legged frog:</p> <ol style="list-style-type: none"> 1. Only U.S. Fish and Wildlife Service-approved biologists will participate in activities associated with the capture and handling of California red-legged frogs. Biologists authorized under the Programmatic Biological Opinion do not need to re-submit their qualifications for subsequent projects conducted pursuant to the Programmatic Biological Opinion, unless the U.S. Fish and Wildlife Service has revoked their approval at any time during the life of the Programmatic Biological Opinion. 	<p>The construction contractor shall implement measures to reduce potential impacts to California red-legged frog.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>

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2.	Ground disturbance will not begin until written approval is received from the U.S. Fish and Wildlife Service that the biologist(s) is qualified to conduct the work. The California Department of Transportation will request approval of the biologist(s) from the U.S. Fish and Wildlife Service.			
3.	A U.S. Fish and Wildlife Service-approved biologist will survey the project area no more than 48 hours before the onset of work activities. If any life stage of the California red-legged frog is found and these individuals are likely to be killed or injured by work activities, the approved biologist will be allowed sufficient time to move them from the site before work activities begin. The U.S. Fish and Wildlife Service-approved biologist will relocate the California red-legged frogs the shortest distance possible to a location that contains suitable habitat and will not be affected by the activities associated with the project. The relocation site should be in the same drainage to the extent practicable. The California Department of Transportation will coordinate with the U.S. Fish and Wildlife Service on the relocation site prior to the capture of any California red-legged frogs.			
4.	Before any activities begin on a project, a U.S. Fish and Wildlife Service-approved biologist will conduct a training session for all construction personnel. At a minimum, the training will include a description of the California red-legged frog and its habitat, the specific measures that are being implemented to conserve the California red-legged frog for the current project, and the boundaries within which the project may be accomplished. Brochures, books, and briefings may be used in the training session, provided that a qualified person is on hand to answer any questions.			
5.	A U.S. Fish and Wildlife Service-approved biologist will be present at the work site until California red-legged frogs have been relocated out of harm's way, workers have been instructed, and disturbance of the habitat has been completed. After this time, the City of Arroyo Grande Public Works Department will designate a person to monitor on-site compliance with minimization measures. The U.S. Fish and Wildlife Service-approved biologist will ensure that this monitor receives the training outlined in (4) above and in the identification of California red-legged frogs. If the monitor or the U.S. Fish and Wildlife Service-approved biologist recommends that work be stopped because California red-legged frogs would be affected in a manner not anticipated by the California Department of Transportation, City of Arroyo Grande Public Works			

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	<p>Department, and the U.S. Fish and Wildlife Service during the review of the proposed action, they will notify the resident engineer (the engineer that is directly overseeing and in command of construction activities) immediately. The resident engineer will either resolve the situation by eliminating the adverse effect immediately or require that actions that are causing these effects be halted. If work is stopped, the California Department of Transportation, City of Arroyo Grande Public Works Department, and U.S. Fish and Wildlife Service will be notified as soon as is reasonably possible.</p>			
	<p>6. During project activities, trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, trash and construction debris will be removed from work areas.</p>			
	<p>7. All refueling, maintenance, and staging of equipment and vehicles will occur at least 60 feet from riparian habitat or waterbodies and in a location from where a spill would not drain directly toward aquatic habitat (e.g., on a slope that drains away from the water). The monitor will ensure contamination of habitat does not occur during such operations. Prior to the onset of work, the California Department of Transportation and City of Arroyo Grande Public Works Department will ensure that a plan is in place for prompt and effective response to any accidental spills. All workers will be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.</p>			
	<p>8. Habitat contours will be returned to their original configuration at the end of project activities. This measure will be implemented in all areas disturbed by activities associated with the project, unless the U.S. Fish and Wildlife Service, California Department of Transportation, and City of Arroyo Grande Public Works Department determine that it is not feasible or modification or original contours would benefit the California red-legged frog.</p>			
	<p>9. The number of access routes, size of staging areas, and the total area of activity will be limited to the minimum necessary to achieve the project. Environmentally Sensitive Areas will be established to confine access routes and construction areas to the minimum area necessary to complete construction and minimize the impact to California red-legged frog habitat; this goal includes locating access routes and construction areas</p>			

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	<p>outside of wetlands and riparian areas to the maximum extent practicable.</p> <p>10. The California Department of Transportation and City of Arroyo Grande Public Works Department will attempt to schedule work for times of the year when impacts to the California red-legged frog would be minimal. For example, work that would affect large pools that may support breeding would be avoided, to the maximum degree practicable, during the breeding season (November–May). Isolated pools that are important to maintain California red-legged frogs through the driest portions of the year would be avoided, to the maximum degree practicable, during the late summer and early fall. Habitat assessments, surveys, and technical assistance between the U.S. Fish and Wildlife Service and California Department of Transportation during project planning will be used to assist in scheduling work activities to avoid sensitive habitats during key times of year.</p> <p>11. To control sedimentation during and after project implementation, the California Department of Transportation and City of Arroyo Grande Public Works Department will implement Best Management Practices outlined in any authorizations or permits issued under the authorities of the Clean Water Act that it receives for the specific project. If Best Management Practices are ineffective, the California Department of Transportation will attempt to remedy the situation immediately, in coordination with the U.S. Fish and Wildlife Service.</p> <p>12. If a work site is to be temporarily dewatered by pumping, intakes will be completely screened with wire mesh not larger than 0.2 inch to prevent California red-legged frogs from entering the pump system. Water will be released downstream at an appropriate rate to maintain downstream flows during construction. Upon completion of construction activities, any diversions or barriers to flow will be removed in a manner that would allow flow to resume with the least disturbance to the substrate. Alteration of the streambed will be minimized to the maximum extent possible; any imported material will be removed from the streambed upon completion of the project.</p> <p>13. Unless approved by the U.S. Fish and Wildlife Service, water will not be impounded in a manner that may attract California red-legged frogs.</p> <p>14. A U.S. Fish and Wildlife Service-approved biologist will permanently remove any individuals of exotic species,</p>			

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	<p>such as bullfrogs, crayfish, and centrarchid fishes from the project area, to the maximum extent. The U.S. Fish and Wildlife Service-approved biologist will be responsible for ensuring their activities are in compliance with the California Fish and Game Code.</p>			
	<p>15. If the California Department of Transportation and the City of Arroyo Grande Public Works Department demonstrate that disturbed areas have been restored to conditions that allow them to function as habitat for the California red-legged frog, these areas will not be included in the amount of total habitat permanently disturbed.</p>			
	<p>16. To ensure that diseases are not conveyed between work sites by the U.S. Fish and Wildlife Service-approved biologist, the fieldwork code of practice developed by the Declining Amphibian Task Force will be followed at all times.</p>			
	<p>17. Project sites will be re-vegetated with an assemblage of native riparian, wetland, and upland vegetation suitable for the area. Locally collected plant materials will be used to the extent practicable. Invasive, exotic plants will be controlled to the maximum extent practicable. This measure will be implemented in all areas disturbed by activities with the project, unless the U.S. Fish and Wildlife Service, California Department of Transportation, and City of Arroyo Grande Public Works Department have determined that it is not feasible or practical.</p>			
	<p>18. The California Department of Transportation and City of Arroyo Grande Public Works Department will not use herbicides as the primary method to control invasive, exotic plants. However, if the California Department of Transportation and City of Arroyo Grande Public Works Department determine the use of herbicides is the only feasible method for controlling invasive plants at a specific project site, it will implement the following additional measures to protect California red-legged frog:</p> <ul style="list-style-type: none"> a. The California Department of Transportation and City of Arroyo Grande Public Works Department will not use herbicides during the breeding season for California red-legged frog. b. The California Department of Transportation and City of Arroyo Grande Public Works Department will conduct surveys for California red-legged frog immediately prior to the start of herbicide use. If found, California red-legged frog will be relocated to suitable habitat far enough from the 			

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	<p>project area that no direct contact with herbicide would occur.</p> <p>c. Giant reed and other invasive plants will be cut and hauled out by hand and painted with glyphosate-based products, such as Aquamaster® or Rodeo®.</p> <p>d. Licensed and experienced California Department of Transportation staff or a licensed and experienced contractor will use a hand-held sprayer for foliar application of Aquamaster® or Rodeo® where large monoculture stands occur at an individual project site.</p> <p>e. All precautions will be taken to ensure that no herbicide is applied to native vegetation.</p> <p>f. Foliar applications of herbicide will not occur when wind speeds are in excess of 3 miles per hour.</p> <p>g. No herbicides will be applied within 24 hours of forecasted rain.</p> <p>h. Application of herbicides will be done by qualified California Department of Transportation staff, City of Arroyo Grande staff, or contractors to ensure that overspray is minimized, application is made in accordance with the label recommendations, and required and reasonable safety measures are implemented. A safe dye will be added to the mixture to visually denote treated sites. Application of herbicides will be consistent with the U.S. Environmental Protection Agency's Office of Pesticide Programs Endangered Species Protection Program county bulletins.</p> <p>i. All herbicides, fuels, lubricants, and equipment will be stored, poured, or refilled at least 60 feet from riparian habitat or water bodies in a location where a spill would not drain directly toward aquatic habitat. The California Department of Transportation and City of Arroyo Grande Public Works Department will ensure that a plan is in place for a prompt and effective response to accidental spills. All workers will be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.</p>			

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MM BIO-4	<p>South-Central California Coast Steelhead. The following measures shall be implemented to reduce potential impacts to South-Central California Coast steelhead:</p> <ol style="list-style-type: none"> 1. Avoid or reduce the area of permanent structures, such as rock slope protection, within the ordinary high-water mark on-site. Selection of the single-span bridge design reduces the need for additional support structures located within the ordinary high-water mark (structures will still be present on the stream banks). Removal of the existing piles within the ordinary high-water mark would result in improvements to steelhead habitat in the vicinity of the bridge. 2. Prior to initiation of stream diversion/dewatering, a qualified biologist shall conduct a worker environmental training program, including a description of steelhead, steelhead critical habitat, its legal/protected status, proximity to the project site, avoidance/minimization measures to be implemented during the project, and the implications of violating Federal Endangered Species Act and permit conditions. 3. In-stream work will take place between June 1 and October 15 in any given year, when the surface water within Arroyo Grande Creek is likely to be at seasonal minimum. Deviations from this work window will only be made with permission from the relevant regulatory agencies. During in-stream work, a qualified biologist who is approved by the National Oceanic and Atmospheric Administration National Marine Fisheries Service and has experience in steelhead biology and ecology, aquatic habitats, biological monitoring (including diversion/dewatering), and capturing, handling, and relocating fish species will be retained. During in-stream work, the biological monitor(s) will continuously monitor placement and removal of any required stream diversions and will capture stranded steelhead and other native fish species and relocate them to suitable habitat, as appropriate. The approved biologist(s) will capture steelhead stranded as a result of diversion/dewatering and relocate steelhead to the nearest suitable in-stream habitat. The approved biologist(s) will note the number of steelhead observed in the affected area, the number of steelhead relocated, and the date and time of the collection and relocation. 4. During in-stream work, if pumps are incorporated to assist in temporarily dewatering the site, intakes will be completely screened with no larger than 0.2-inch (5- 	<p>The construction contractor shall implement measures to reduce potential impacts to South-Central California Coast steelhead.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>

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MM BIO-5	<p>millimeter) wire mesh to prevent steelhead and other sensitive aquatic species from entering the pump system. Pumps will release the diverted water so that suspended sediment will not re-enter the stream. The form and function of pumps used during the dewatering activities will be checked daily, at a minimum, by a qualified biological monitor to ensure a dry work environment and minimize adverse effects to aquatic species and habitats.</p> <p>Western Pond Turtle. Prior to construction, a biologist determined qualified by the California Department of Transportation shall survey the Biological Study Area and capture and relocate any western pond turtles, if present, to suitable habitat upstream of the Biological Study Area. Observations of these or other special-status species shall be documented on California Natural Diversity Database forms and submitted to the California Department of Fish and Wildlife upon project completion. If western pond turtle or other special concern aquatic species are observed during construction, they will likewise be relocated to suitable upstream habitat by the qualified biologist.</p>	Survey and relocation results shall be submitted to the City of Arroyo Grande.	Prior to and during construction activities	Project Applicant
MM BIO-6	<p>Nesting Migratory Birds. The following measures shall be included at appropriate times to reduce potential impacts to nesting migratory birds:</p> <ol style="list-style-type: none"> 1. Prior to construction, when feasible, tree removal will be scheduled to occur from September 16 through February 14, outside of the typical nesting bird season, to avoid potential impacts to nesting birds. 2. If construction activities are proposed during the typical nesting season (February 15 to September 15), a nesting bird survey will be conducted by qualified biologists no more than two weeks prior to the start of construction to determine presence/absence of nesting birds within the project area and immediate vicinity. The California Department of Transportation will be notified if federally listed nesting bird species are observed during the surveys and will facilitate coordination with the U.S. Fish and Wildlife Service, if necessary, to determine an appropriate avoidance strategy. Likewise, coordination with California Department of Fish and Wildlife will be facilitated by the City of Arroyo Grande Public Works Department if necessary to devise a suitable avoidance plan for state-listed nesting bird species. If raptor nests are observed within the project area during the preconstruction nesting bird surveys, the nest(s) shall be designated an Environmental Sensitive Area and protected by a minimum 500-foot avoidance buffer until the breeding season ends 	The construction contractor shall implement measures to reduce potential impacts to nesting migratory birds; survey results shall be submitted to the City of Arroyo Grande.	Prior to and during construction activities	Project Applicant

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MM BIO-7	<p>or until a qualified biologist determines that all young have fledged and are no longer reliant upon the nest or parental care for survival. Similarly, if active passerine nests are observed within the project area during the preconstruction nesting bird surveys, the nest(s) shall be designated an Environmentally Sensitive Area and protected by a minimum 250-foot avoidance buffer until the breeding season ends or until a qualified biologist determines that all young have fledged and are no longer reliant upon the nest or parental care for survival. Resource agencies may consider proposed variances from these buffers if there is a compelling biological or ecological reason to do so, such as protection of a nest via concealment due to site topography.</p> <p>Roosting Bats. The following measures shall be included at appropriate times to reduce potential impacts to roosting bats:</p> <ol style="list-style-type: none"> 1. Prior to construction, a visual survey will be conducted by a qualified biologist, at dawn and at dusk, to identify potential roosting bat activity. This survey shall be conducted between 2 and 4 weeks prior to bridge and/or tree removal activities. If roosting bat activity is identified during the preconstruction survey process, the City of Arroyo Grande will coordinate with the California Department of Fish and Wildlife regarding the biological significance of the bat population and appropriate measures that could be used to exclude bats from roosting under the bridge. Measures may include, but are not limited to, the installation of exclusionary devices by a qualified individual. 2. If it is determined that a substantial impact to individual bat species or a maternity roost will occur, then the City of Arroyo Grande will compensate for the impact through the development and implementation of a mitigation plan in coordination with California Department of Fish and Wildlife. 	<p>The construction contractor shall implement measures to reduce potential impacts to roosting bats; survey results shall be submitted to the City of Arroyo Grande.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>
MM BIO-8	<p>Arroyo Willow. The following measures shall be included at appropriate times to reduce potential impacts to Arroyo Grande Creek:</p> <ol style="list-style-type: none"> 1. Prior to initiation of any construction activities, including vegetation clearing or grubbing, sturdy high-visibility fencing will be installed to protect the arroyo willow thickets adjacent to the designated work areas. This fencing will be placed so that unnecessary adverse impacts to the adjacent habitats are avoided. No construction work (including storage of materials) will occur outside of the 	<p>The construction contractor shall implement measures to reduce potential impacts to arroyo willow.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>

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2.	<p>specified project limits. The fencing will remain in place during the entire construction period, be monitored periodically by a qualified biologist, and be maintained as needed by the contractor.</p> <p>Prior to construction, the City of Arroyo Grande Public Works Department will prepare a comprehensive Habitat Mitigation and Monitoring Plan that provides for a 1:1 restoration ratio for temporary impacts and a 3:1 enhancement ratio for permanent impacts, unless otherwise directed by regulatory agencies. To the extent feasible, mitigation activities will be implemented within the project area and/or the Arroyo Grande Creek riparian corridor and areas in and adjacent to the project area that support invasive plant species, contain agricultural trash, and have erosion. These areas provide the most optimal mitigation opportunities on-site. Areas within the disturbance area where landscape trees and shrubs would be removed may also provide opportunities for planting native trees and riparian species. Any revegetation will be conducted using only native plant species. The final Habitat Mitigation and Monitoring Plan will identify the specific mitigation sites and it will be implemented immediately following project completion.</p>			
MM BIO-9	<p>Arroyo Grande Creek. The following measures shall be included at appropriate times to reduce potential impacts to Arroyo Grande Creek:</p> <ol style="list-style-type: none"> Prior to construction, the City of Arroyo Grande Public Works Department will obtain a Section 404 Permit from the United States Army Corps of Engineers, a Section 401 Water Quality Certification from the Regional Water Quality Control Board, and a Section 1602 Streambed Alteration Agreement from the California Department of Fish and Wildlife for project-related impacts that will occur in areas under state and federal jurisdiction. Prior to construction, the City of Arroyo Grande Public Works Department will retain a qualified biological monitor(s) to monitor construction and ensure compliance with the avoidance and minimization efforts outlined within all the project environmental documents. At a minimum, monitoring will occur during initial ground disturbance activities and vegetation removal within the Arroyo Grande Creek corridor. Monitoring may be reduced to part time once initial disturbance and vegetation removal activities are complete. The duration of monitoring should be at least 	<p>The construction contractor shall implement measures to reduce potential impacts to Arroyo Grande Creek.</p>	<p>Prior to and during construction activities</p>	<p>Project Applicant</p>

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	<p>once per week throughout the remaining construction phases, unless specified otherwise by permitting agencies.</p> <p>3. Prior to construction, all personnel will participate in an environmental awareness training program conducted by a qualified biologist. The program shall include a description of the sensitive aquatic resources and federally designated critical habitat within the project area and the boundaries within which the project may be accomplished. If appropriate, the biologist may train and designate a representative of the City of Atascadero or other designee to provide training to subcontractors or personnel who will be on-site for short durations during the project.</p> <p>4. Construction activities within jurisdictional areas will be conducted during the dry season when stream flows will be at annual lows (June 1–October 15) in any given year, or as otherwise directed by the regulatory agencies. Deviations from this work window can be made with permission from the relevant regulatory agencies.</p> <p>5. Prior to initiation of any construction activities, including vegetation clearing or grubbing, sturdy high-visibility fencing will be installed to protect the jurisdictional areas adjacent to the designated work areas. This fencing will be placed so that unnecessary adverse impacts to the adjacent habitats are avoided. No construction work (including storage of materials) will occur outside of the specified project limits. The fencing will remain in place during the entire construction period, be monitored periodically by a qualified biologist, and be maintained as needed by the contractor.</p> <p>6. Prior to construction, the contractor will prepare a Hazardous Materials Response Plan to allow for a prompt and effective response to any accidental spills. Workers will be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.</p> <p>7. Prior to construction, a Storm Water Pollution Prevention Plan will be prepared for the project. Provisions of this plan will be implemented during and after construction as necessary to avoid and minimize erosion and stormwater pollution in and near the work area.</p> <p>8. During construction, erosion control measures (e.g., silt fencing, fiber rolls, and barriers) will remain available on-site and will be utilized as necessary to prevent erosion and sedimentation in jurisdictional areas. No synthetic plastic mesh products will be used for erosion control and use of these materials on-site is prohibited. Erosion control</p>			

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	<p>measures and other suitable Best Management Practices used will be checked to ensure that they are intact and functioning effectively and maintained daily throughout the duration of construction. The contractor will also apply adequate dust control techniques, such as site watering, during construction to protect water quality.</p> <p>9. During construction, water quality monitoring of turbidity will be required while water is flowing.</p> <p>10. During construction, the cleaning and refueling of equipment and vehicles will occur only within a designated staging area and at least 60 feet (20 meters) from the creek banks. At a minimum, equipment and vehicles will be checked and maintained daily to ensure proper operation and avoid potential leaks or spills.</p> <p>11. During construction, trash will be contained, removed from the work site, and disposed of regularly. Following construction, trash and construction debris will be removed from the work areas. Vegetation removed from the construction site will be taken to a certified landfill to prevent the spread of invasive species. If soil from weedy areas (such as areas with poison hemlock or other invasive exotic plant species) must be removed off-site, the top 6 inches (152 millimeters) containing the seed layer in areas with weedy species will be disposed of at a permitted landfill.</p> <p>12. During construction, no pets will be allowed on the construction site.</p>			
Cultural Resources				
MM CR-1	<p>In the event that cultural resources are encountered during project activities, all ground-disturbing activities within a 25-foot radius of the find shall cease and the City of Arroyo Grande shall be notified immediately. Work shall not continue until a 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 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.</p>	<p>Cease ground disturbing activities and immediately notify City of Arroyo Grande.</p>	<p>In the event that cultural resources are encountered during project activities; during ground-disturbing activities on the project site</p>	<p>Project Applicant</p>

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Geology and Soils				
MM GEO-1	All project-related ground disturbance that occurs in previously undisturbed native soils shall be monitored by a qualified paleontological monitor on a full-time basis. However, the frequency of monitoring may be reduced at the discretion of the qualified paleontologist if the disturbed geologic units are determined to have a low potential to yield significant fossil resources upon further examination of the geologic units during grading operations. In the event that a subsurface fossil is discovered within the project area during project activities, all work within the vicinity of the find shall cease until the qualified paleontological monitor can assess the significance of the find. Field data forms shall be used to record pertinent geologic data. Any recovered fossils shall be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and repositied in a designated paleontological curation facility. The qualified paleontologist shall prepare a paleontological mitigation and monitoring report to be filed with the City of Arroyo Grande, as lead agency, and the repository.	Monitoring results shall be submitted to the City of Arroyo Grande.	During project-related ground disturbance that occurs in previously undisturbed native soils	Project Applicant
Hazards and Hazardous Materials				
HAZ-1	Prior to the implementation of any lane/road closures or detour routes, the City and/or its project contractors shall provide notice to all residents, business owners, public facilities, and emergency response providers likely to be affected by the closure and detours, including, but not limited to, the Five Cities Fire Authority and Arroyo Grande Police Department. The notice shall include the following information: dates of construction, temporary lane/road closures and detours, and contact information, including the phone number and email address of the City staff person responsible for responding to and addressing public complaints regarding access. The notice shall be provided at least 2 weeks prior to any planned road closure.	The City of Arroyo Grande and/or its project contractors shall provide notice to those likely to be affected by the closure and detours.	Within 2 weeks prior to the implementation of any lane/road closures or detour routes	Project Applicant, City of Arroyo Grande
Noise				
MM N-1	Noise-generating construction activities shall be limited to the daytime hours of 7:00 a.m. to 9:00 p.m. Monday through Friday and 8:00 a.m. to 5:00 p.m. Saturday through Sunday, excluding legal holidays observed by the City during which no noise-generating construction activities shall be allowed. Any exceptions to this period of time would need to be authorized by the City of Arroyo Grande on a case-by-case basis and would be subject to the City of Arroyo Grande Noise Standards.	The construction contractor shall limit construction activities to daytime hours.	During construction activities	Project Applicant

Mitigation Measure	Requirements of Measure	Compliance Method	Verification Timing	Responsible Party
MM N-2	Internal combustion engines for construction equipment shall be equipped with the muffler recommended by the manufacturer. Internal combustion engines shall not be operated on the job site without the appropriate muffler.	The construction contractor shall use appropriate mufflers.	During construction activities	Project Applicant