

# **Mitigation Monitoring and Reporting Program**

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CEQA requires that a reporting or monitoring program be adopted for the conditions of project approval that are necessary to mitigate or avoid significant effects on the environment (Public Resources Code 21081.6). This Mitigation Monitoring and Reporting Program is intended to track and ensure compliance with adopted mitigation measures during the project implementation phase. For each mitigation measure recommended in the Initial Study/Mitigated Negative Declaration (IS/MND), specifications are made herein that identify the action required, the monitoring that must occur, and the agency or department responsible for oversight.

Carmel Area Wastewater District  
**Carmel Valley Manor Sewer Main Extension**

Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Compliance Verification		
					Initial	Date	Comments
<b>Biological Resources</b>							
<b>BIO-1 Worker Environmental Awareness Program</b>							
<p>Prior to initiation of construction activities (including staging and mobilization) all personnel associated with project construction shall attend a Worker Environmental Awareness Program (WEAP) training, conducted by a qualified biologist, to aid workers in recognizing special-status resources that may occur in the construction area. The specifics of this program shall include identification of the special-status species and their habitats, a description of the regulatory status and general ecological characteristics of special-status resources, and review of the limits of construction and mitigation measures required to reduce impacts to biological resources within the work area. A fact sheet conveying this information shall also be prepared for distribution to all contractors, their employers, and other personnel involved with construction. All employees shall sign a form provided by the trainer indicating they have attended the WEAP and understand the information presented to them. The form shall be submitted to CAWD to document compliance.</p>	<p>Retain a qualified biologist to conduct WEAP training for recognizing special-status resources in the project area.            Require the construction contractor to submit a form signed by construction employees certifying WEAP attendance and understanding.</p>	<p>Prior to construction</p>	<p>Once</p>	<p>Carmel Area Wastewater District (CAWD)</p>			
<b>BIO-2 Western Bumble Bee Preconstruction Survey</b>							
<p>A qualified biologist(s) shall conduct a pre-construction survey prior to the onset of work activities at the pump station site. The pre-construction survey effort shall be conducted for a minimum of one hour. If bumble bees of any species are observed, they shall be photographed for identification following the USFWS guidance in Appendix A Standardized</p>	<p>Retain a qualified biologist to conduct pre-construction surveys for western bumble bees.            Include language in the construction contract requiring the avoidance of bee colonies between March 1 and November 1.</p>	<p>Prior to construction</p>	<p>Once</p>	<p>CAWD</p>			

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<p>Bee Photography in the Survey Protocols for the Rusty Patched Bumble Bee (<i>Bombus affinis</i>) (USFWS 2019d). If construction begins between March 1 and November 1, the ground shall also be searched during the survey for active bumble bee colonies. No capture or handling of bumble bees shall be conducted, and western bumble bee shall be avoided. Foraging bees shall be allowed to leave work areas undisturbed, and bee colonies shall be avoided during the active season from March 1 through November 1.</p>							
<b>BIO-3 Spill/Debris Prevention</b>							
<p>All refueling, maintenance, and staging equipment and vehicles shall occur at far from the Carmel River, riparian habitat, and the ephemeral drainage/ditch as feasible, and in a location from which a spill would not drain directly toward these habitats (e.g., on a slope that drains away from the water), or in a containment structure. Prior to the onset of work, a plan shall be developed for prompt and effective response to any accidental spills. All workers shall be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur. Should any debris or equipment from the work area fall into the river or riparian corridor it shall be removed immediately.</p>	<p>Include, in the construction contract, a requirement that refueling, maintenance, and staging of equipment occur as far from the Carmel River, riparian habitat, and the ephemeral drainage/ ditch as feasible. Approve a plan, prepared by the construction contractor, for the effective response to accidental spills.</p>	<p>During construction contract negotiations</p> <p>Prior to the onset of construction</p>	Once	CAWD			
<b>BIO-4 Wildlife Entrapment Prevention</b>							
<p>To prevent the inadvertent entrapment of individuals, all excavated, steep-walled holes or trenches shall be covered at the end of each workday with plywood or similar materials. If this is not possible, one or more escape ramps constructed of earth fill or wooden planks (no</p>	<p>Include a requirement in the construction contract that trenches be covered at the end of each workday and inspected prior to filling. Cover trenches at the end of each workday or provide escape ramps, and</p>	<p>During construction contract negotiations</p>	Once	CAWD			

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greater 45 degrees) shall be established in the hole. Before such holes or trenches are filled, they shall be thoroughly inspected for any animals. Any wildlife observed shall be allowed to leave the excavation of its own accord. If listed species are observed in excavations, all work shall stop and USFWS and/or CDFW shall be contacted immediately. Take of listed species, including disturbance, handling, or relocating, is illegal without State and/or federal take authorization.	inspect trenches prior to filling. Stop work if listed species are observed in excavation and notify CAWD.	During construction	As needed	Construction contractor			
<b>BIO-5 Trash Disposal</b>							
During project activities, all trash that may attract wildlife shall be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris shall be removed from work areas.	Include a requirement in the construction contract that trash be properly contained and disposed of.	During construction contract negotiations	Once	CAWD			
	Contain, remove, and dispose of trash that may attract wildlife. Remove all trash and debris when construction is complete.	During construction	As needed	Construction contractor			
<b>BIO-6 Nesting Bird Survey</b>							
If construction requires any vegetation trimming or tree removals that are scheduled to occur during the nesting bird season (February 1 through September 1), pre-construction surveys shall be conducted by a qualified biologist no more than one week prior to construction to determine the presence/absence of nesting birds within the project site. The survey shall be repeated if a lapse in construction activity of two weeks or greater has occurred. If active nests are found the qualified biologist shall establish an appropriate buffer, taking into account the species sensitivity and physical location of the nest (line of site to the work area), to be in compliance with CFGC 3503 and	For construction occurring between February 1 and September 1, retain a qualified biologist to conduct pre-construction nesting bird surveys and establish buffers.	Prior to construction	Once	CAWD			
	Conduct pre-construction surveys for nesting birds. Establish an appropriate buffer for any discovered nests. Mark the buffer with high visibility material and remove when the young have fledged and the nest is abandoned.	Within one week prior to construction; repeated if construction lapses for more than two weeks	Once, and as needed	Qualified biologist			

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<p>3503.5. In no cases shall the buffer be smaller than 50 feet for non-raptor bird species and 200 feet for raptor species. To prevent encroachment, the established buffer(s) shall be clearly marked by high visibility material. The established buffer(s) shall remain in effect until the young have fledged or the nest has been abandoned as confirmed by the qualified biologist.</p>							
<b>Cultural Resources</b>							
<b>CR-1 Archaeological and Native American Monitoring</b>							
<p>During ground disturbance of native soils (soils not consisting of artificial fill) for the construction of the project, a qualified archaeologist working under the direction of an archaeologist meeting the Secretary of the Interior’s Professional Qualifications Standards for archaeology (National Park Service 1983) and a locally affiliated Native American monitor shall be retained to observe construction activities within the project site. If, during initial monitoring, the qualified archaeologist determines that the construction activities have little or no potential to impact cultural resources, the qualified archaeologist, in consultation with the Native American monitor, may recommend that monitoring be reduced or eliminated. If cultural resources are identified during initial monitoring, work within 50 feet of the find shall halt and Mitigation Measure CR-2 shall be implemented.</p>	<p>Retain an archaeologist meeting the Secretary of Interior’s Professional Qualifications Standards for archaeology and locally-affiliated Native American monitor to observe construction activities that would disturb native soils.</p>	Prior to construction	Once	CAWD			
	<p>Observe construction activities and recommend monitoring be reduced or eliminated if appropriate.</p>	During construction	Daily, as needed	Qualified archaeologist			
	<p>Halt work, notify CAWD, and establish a 50-foot buffer for identified cultural resources.</p>	During construction monitoring	As needed	Qualified archaeologist			
<b>CR-2 Unanticipated Archaeological Resources</b>							
<p>If archaeological resources are encountered during ground-disturbing activities, work within</p>	<p>Include a requirement in the construction contract to suspend all</p>	During construction contract	Once	CAWD			

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<p>50 feet of the find shall be halted and an archaeologist meeting the Secretary of the Interior’s Professional Qualification Standards for archaeology (National Park Service 1983), shall be contacted immediately to evaluate the find. If necessary, the evaluation may require preparation of a treatment plan and archaeological testing for CRHR eligibility. If the discovery proves to be significant under CEQA and cannot be avoided by the project, additional work, such as data recovery excavation, may be warranted to mitigate any significant impacts to historical resources.</p> <p>In the event that archaeological resources of Native American origin are identified during project construction, a qualified archaeologist will consult with CAWD to begin Native American consultation procedures. As part of this process, it may be determined that archaeological monitoring is required. A Native American monitor may also be required in addition to the archaeologist.</p>	<p>work if cultural resources or any artifact or an unusual amount of bone, or shell is encountered during construction until the find can be evaluated by a qualified archaeologist or the appropriate Native American tribe for resources of Native American origins.</p>	<p>negotiations, and as needed during construction</p>					
<b>Geology and Soils</b>							
<b>GEO-1 Paleontological Resources Monitoring</b>							
<p>Prior to the commencement of project construction, a qualified paleontological monitor (i.e., a paleontologist who meets the SVP [2010] standards as a Paleontological Resource Monitor) shall be retained to conduct paleontological monitoring during ground-disturbing activities (including, but not limited to site preparation, grading, excavation, and trenching) of intact (i.e., previously undisturbed) Qoa and Tm geologic units, located along the western half of the proposed pipeline alignment along Carmel Valley Road. Monitoring shall be</p>	<p>Retain qualified paleontologist to observe construction activities (excluding jack and bore horizontal drilling) that would disturb intact soils, and prepare and submit a report summarizing the results of paleontological monitoring to CAWD.</p> <p>Monitor (full time) all ground-disturbing activities (excluding jack and bore horizontal drilling) in native soils</p>	<p>Prior to initiation of construction</p> <p>During construction</p>	<p>Once</p> <p>Daily, as needed</p>	<p>CAWD</p> <p>Qualified paleontologist</p>			

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<p>supervised by a Qualified Paleontologist (i.e., a paleontologist who meets the SVP [2010] standards as a Qualified Professional Paleontologist).</p> <p>Full-time monitoring shall be conducted for all ground-disturbing activities, excluding jack and bore horizontal drilling, that impact native previously undisturbed geologic units mapped at the surface as Pleistocene and early Holocene older alluvium (Qoa) and Miocene Monterey Formation (Tm), which have a high paleontological sensitivity. Additionally, initial part-time monitoring (i.e., spot-checking) shall be conducted for all ground-disturbing activities, excluding jack and bore horizontal drilling, that impact previously undisturbed geologic units mapped at the surface as middle to late Holocene stream channel deposits (Qg) and middle to late Holocene alluvial deposits (Qa) to check for the presence of geologic units of high sensitivity (i.e., Pleistocene and early Holocene older alluvium [Qoa] and Miocene Monterey Formation [Tm]). If Pleistocene and early Holocene older alluvium (Qoa) and Miocene Monterey Formation (Tm) are observed at depth, then full-time monitoring shall be conducted. Ground-disturbing activities that impact previously disturbed sediments only do not require paleontological monitoring. Additionally, jack and bore horizontal drilling does not require monitoring; however, spoils from these sediments should be spot-checked for paleontological resources.</p> <p>The duration and timing of the monitoring shall be determined by the Qualified Paleontologist. If the Qualified Paleontologist determines that full-time or part-time monitoring is no longer warranted, he or she may recommend reducing</p>	<p>with high paleontological sensitivity (Qoa and Tm geologic units).</p> <p>Monitor (part-time) all ground-disturbing activities (excluding jack and bore horizontal drilling) in previously undisturbed Qg and Qa units to check for areas of high sensitivity (Qoa and Tm). Conduct full-time monitoring if Qoa and Tm units are observed.</p>	During construction	Daily, as needed	Qualified paleontologist			
	<p>Spot-check spoils from jack and bore horizontal drilling for paleontological resources.</p>	During construction	Daily, as needed	Qualified paleontologist			
	<p>Recommend reduced monitoring, if appropriate, and reinstate monitoring as needed.</p>	During construction	As needed	Qualified paleontologist			
	<p>Divert construction equipment around any found paleontological resources until the resource is assessed and collected. Notify CAWD of any found resources. Prepare significant fossils for transfer and curation.</p>	During construction	As needed	CAWD, qualified paleontologist			
	<p>Prepare a final report describing the results of monitoring, including a summary of laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. Submit the report to CAWD. If the monitoring efforts produced fossils, submit the report to the designated museum repository.</p>	Upon completion of monitoring activities	Once	CAWD, qualified paleontologist			

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<p>monitoring to periodic spot-checking or may recommend that monitoring cease entirely. Monitoring shall be reinstated if any new ground disturbances of previously undisturbed areas are required, and reduction or suspension shall be reconsidered by the Qualified Paleontologist at that time.</p> <p>If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert construction equipment around the find until it is assessed for scientific significance and collected. Once salvaged, significant fossils shall be prepared to a curation-ready condition and curated in a scientific institution with a permanent paleontological collection (such as the UCMP). Curation fees are the responsibility of the project owner.</p> <p>A final report shall be prepared describing the results of the paleontological monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The report shall be submitted to CAWD. If the monitoring efforts produced fossils, then a copy of the report shall also be submitted to the designated museum repository.</p>							