

**MITIGATION MONITORING AND REPORTING  
PLAN**

**for**

**HATTON CANYON**

**SEWER REPLACEMENT PROJECT**



**CARMEL AREA WASTEWATER DISTRICT**

**October 2018**

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**MITIGATION MONITORING AND REPORTING PROGRAM**  
**for the Hatton Canyon Sewer Replacement Project**

**INTRODUCTION**

Section 21081.6 of the California Public Resources Code and Section 15091(d) and Section 15097 of the California Environmental Quality Act (CEQA) Guidelines require public agencies “to adopt a reporting or monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” This Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Hatton Canyon Sewer Replacement Project (Project). This MMRP is based on the mitigation measures included in the Final Initial Study/Mitigated Negative Declaration (IS/MND).

Mitigation Monitoring and Reporting Program – Hatton Canyon Sewer Replacement Project

Issue Area	Mitigation Measures	Timing of Implementation	Implementation Responsibility	Verification Responsibility
Biological Resources – Special Status Plant Species	<p><u>Mitigation Measure BIO-1</u></p> <p>The contractor shall document all Monterey pine and coast live oak trees removed during construction. Following construction, all Monterey pine and coast live oak trees six inches dbh or greater that are removed shall be replaced at a 1:1 success ratio and a Revegetation Plan shall be prepared by a qualified biologist and submitted to the District for approval prior to the initiation of grading. The plan shall include, but is not limited to, a detailed description of restoration areas, source material and planting specifications, and a monitoring program that describes annual monitoring efforts which incorporate success criteria and contingency plans if success criteria are not met.</p>	During and After Construction	Construction Contractor, Qualified Biologist	Construction Manager, Carmel Area Wastewater District
Biological Resources – Special Status Plant Species	<p><u>Mitigation Measure BIO-2</u></p> <p>The following measures shall be employed to avoid potential impacts to Monterey pine and coast live oak trees within or adjacent to the proposed project area during construction:</p> <p>Trees six inches dbh or greater located within or adjacent to the construction area that are not scheduled for removal shall be protected from damage by construction equipment by the use of temporary fencing in combination with wrapping of trunks with protective materials where ever there may be construction present. Fencing shall consist of chain link, heavy duty snowdrift or plastic mesh, hay bales, or field fence. Fencing shall not be attached to the tree but free standing and self-supporting so as not to damage trees. Fencing shall be rigidly supported both vertically and horizontally and shall stand a minimum of height of six feet above grade. Fenced areas and the trunk protection materials shall remain in place during the entire construction period</p> <p>Trenching construction located adjacent to trees should be done by hand where practical and any roots greater than 1.5 inches in diameter should be bridged or pruned appropriately.</p> <p>Any roots of trees that must be cut should be cut by manually digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment.</p> <p>Any roots of trees that are damaged during grading or excavation should be exposed to sound tissue and cut cleanly with a saw.</p> <p>If significant roots are identified that must be removed that will destabilize or negatively affect the trees, the Construction Manager will be notified immediately and a determination for removal will be assessed and made as required by law for treatment of the area that will not risk death, decline or instability of the tree consistent with the implementation of appropriate</p>	Prior to and During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District

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	<p>construction design approaches to minimize affects, such as hand digging, bridging or tunneling under roots, etc.</p> <p>Deposit of fill, soil compaction, parking of vehicles or heavy equipment, stockpiling of construction materials, and/or dumping of materials is not to be allowed adjacent to trees, especially within fenced areas.</p> <p>Any necessary pruning shall be conducted so as not to unnecessarily injure the tree. General principles of pruning include placing cuts immediately beyond the branch collar, making clean cuts by scoring the underside of the branch first.</p>			
<p>Biological Resources – Special Status Wildlife Species</p>	<p><u>Mitigation Measure BIO-3</u></p> <p>A qualified biologist shall conduct an Employee Education Program for construction crew and District staff prior to construction activities. A qualified biologist shall meet with the construction crew at the onset of construction at the proposed project area to educate the construction crew on the following: 1) the appropriate access route in and out of the construction area and review proposed project boundaries; 2) how a biological monitor will examine the area and agree upon a method that will ensure the safety of the monitor during such activities, 3) the special-status species that may be present; 4) the specific mitigation measures that will be incorporated into the construction effort; 5) the general provisions and protections afforded by the USFWS and the CDFW and the penalties for non-compliance; and 6) the proper procedures if a special-status animal is encountered within the proposed project site.</p>	<p>Prior to Construction</p>	<p>Qualified Biologist</p>	<p>Construction Manager, Carmel Area Wastewater District</p>
<p>Biological Resources – Special Status Wildlife Species</p>	<p><u>Mitigation Measure BIO-4</u></p> <p>A representative shall be appointed by the District who will be the contact source for any employee or contractor who may inadvertently kill or injure a special-status species or find one dead, injured, or trapped. The representative shall notify the qualified biologist immediately to notify the appropriate regulatory agency (USFWS and/or CDFW). The representative shall be identified during the Employee Education Program and his/her contact information shall be provided to the qualified biologist.</p>	<p>Prior to Construction</p>	<p>Carmel Area Wastewater District; District Representative</p>	<p>Construction Manager, Carmel Area Wastewater District</p>
<p>Biological Resources – Special Status Wildlife Species</p>	<p><u>Mitigation Measure BIO-5</u></p> <p>A qualified biologist shall conduct pre-construction surveys for woodrat nests within the Proposed Project Area and within a buffer zone of 25 feet from the proposed project Area. All woodrat nests shall be flagged for avoidance of direct construction impacts where feasible. Nests that cannot be avoided shall be manually deconstructed. Deconstruction includes clearing the vegetation from around the nest prior to dismantling to encourage the dispersal of</p>	<p>Prior to Construction</p>	<p>Qualified Biologist</p>	<p>Construction Manager, Carmel Area Wastewater District</p>

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	<p>the animal during dismantling due to lack of sufficient cover, and/or dismantling by hand, allowing animals to escape either along existing woodrat trails or toward other available habitat. If a litter of young is found or suspected, nest materials should be replaced, and the nest left alone for two to three weeks before a recheck to verify that the young are capable of independent survival before proceeding with the next dismantling.</p>			
<p>Biological Resources – Special Status Wildlife Species</p>	<p><u>Mitigation Measure BIO-6</u></p> <p>Construction activities that may directly (e.g., vegetation removal) or indirectly affect (e.g. noise/ground disturbance) nesting raptors and/or other protected bird species will be timed to avoid the breeding and nesting seasons. Specifically, trenching, pipe bursting, and vegetation removal can be scheduled after September 16 and before January 31.</p> <p>If construction activities must occur during the breeding and nesting season (February 1 through September 15), a qualified biologist shall conduct pre-construction surveys for nesting raptors and other protected avian species within 300 feet of the proposed construction activities. Pre-construction surveys should be conducted no more than 7 days prior to the start of the construction activities during the early part of the breeding season (February through April) and no more than 14 days prior to the initiation of these activities during the late part of the breeding season (May through August). Based on the results of these surveys, one or more of the following will occur:</p> <p>If it is determined that nests of raptors or other migratory bird are not present at the site, no additional mitigation is required.</p> <p>If raptors or other migratory bird nests are identified, the qualified biologist would notify the project proponent and an appropriate no-disturbance buffer would be imposed within which no construction activities or disturbance would take place (generally 300 feet in all directions for raptors; other avian species may have species-specific requirements) until the young of the year have fledged and are no longer reliant upon the nest or parental care for survival, as determined by a qualified biologist.</p>	<p>Prior to and During Construction</p>	<p>Carmel Area Wastewater District, Qualified Biologist</p>	<p>Construction Manager, Carmel Area Wastewater District</p>
<p>Biological Resources – Special Status Wildlife Species</p>	<p><u>Mitigation Measure BIO-7</u></p> <p>A qualified biologist will survey the proposed project area and immediately adjacent areas 48 hours before and the morning of the onset of work activities for the presence of CRLF. If any life stage of CRLF is observed, construction activities will not commence until the USFWS is consulted and appropriate actions are taken to allow project activities to continue.</p>	<p>Prior to Construction</p>	<p>Qualified Biologist</p>	<p>Construction Manager, Carmel Area Wastewater District</p>
<p>Biological Resources –</p>	<p><u>Mitigation Measure BIO-8</u></p>	<p>During Construction</p>	<p>Qualified Biologist</p>	<p>Construction Manager,</p>

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Special Status Wildlife Species	During ground disturbing and vegetation removal activities, a qualified biologist shall survey appropriate areas of the construction site daily before the onset of work activities for the presence of CRLF. The qualified biologist shall remain available to come to the site if a CRLF is identified until all ground disturbing activities are completed. If any life stage of the CRLF is found and these individuals are likely to be killed or injured by work activities, the qualified biologist shall be contacted, and work shall stop in that area until the CRLF has moved on its own out of the work area and the USFWS has been contacted. Construction activities will not resume until the USFWS is consulted and appropriate actions are taken to allow project activities to continue.			Carmel Area Wastewater District
Biological Resources – Special Status Wildlife Species	<p><u>Mitigation Measure BIO-9</u></p> <p>After ground disturbing and vegetation removal activities are complete, or earlier if determined appropriate by the qualified biologist, the qualified biologist will designate a construction monitor to oversee on-site compliance with all avoidance and minimization measures. The qualified biologist shall ensure that this construction monitor receives the sufficient training in the identification of CRLF. The construction monitor or the qualified biologist is authorized to stop work if the avoidance and/or minimization measures are not being followed. If work is stopped, the USFWS shall be notified. The qualified biologist and the construction monitor shall complete a daily log summarizing activities and environmental compliance throughout the duration of the proposed project.</p>	During Construction	Qualified Biologist, Designated Construction Monitor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Special Status Wildlife Species	<p><u>Mitigation Measure BIO-10</u></p> <p>To prevent inadvertent entrapment of CRLF and/or Coast Range newt during project construction, all excavated, steep-walled holes or trenches more than two feet deep will be covered at the close of each working day with plywood or similar materials. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals.</p>	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Special Status Wildlife Species	<p><u>Mitigation Measure BIO-11</u></p> <p>Only tightly woven fiber netting or similar material may be used for erosion control at the project site. Coconut coir matting is an acceptable erosion control material. No plastic monofilament matting will be used for erosion control, as this material may ensnare wildlife, including CRLF.</p>	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Special Status	<p><u>Mitigation Measure BIO-12</u></p>	During Construction	Carmel Area Wastewater District,	Construction Manager, Carmel Area

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Wildlife Species	Because dusk and dawn are often the times when CRLF are most actively foraging and dispersing, all construction activities should cease one half hour before sunset and should not begin prior to one half hour after sunrise.		Construction Contractor	Wastewater District
Biological Resources – Special Status Wildlife Species	<u>Mitigation Measure BIO-13</u> All trash that may attract predators shall be properly contained, removed from the construction site, and disposed of regularly. Following construction, all trash and construction debris shall be removed from work areas.	During and Following Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Sensitive Habitats	<u>Mitigation Measure BIO-14</u> Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations.	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Sensitive Habitats	<u>Mitigation Measure BIO-15</u> Protective fencing shall be placed so as to keep construction vehicles and personnel from impacting riparian vegetation and other sensitive habitats adjacent to the proposed project area outside of work limits. Typically, protective fencing, also referred to as Environmentally Sensitive Area (ESA) fencing, is four (4) feet in height and is made of a highly visible color of polypropylene plastic.	Prior to and During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Biological Resources – Sensitive Habitats	<u>Mitigation Measure BIO-16</u> Cleaning and refueling of equipment and vehicles will occur only within designated staging areas on previously paved or graded parking areas. No maintenance, cleaning or fueling of equipment will occur within wetland, other waters of the U.S., or riparian areas, or within 100 feet of such areas if possible. At a minimum, all equipment and vehicles will be checked and maintained on a daily basis to ensure proper operation and avoid potential leaks or spills. During construction, all project-related spills of hazardous materials within or adjacent to proposed project area will be cleaned up immediately. Spill prevention and clean-up materials will be onsite at all times during construction. Construction materials/debris will also be stored within the designated staging areas. No debris, soil, silt, sand, oil, petroleum products, cement, concrete, or washings thereof will be allowed to enter into, or be placed where they may be washed by rainfall or runoff, into riparian or wetland habitats.	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District



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Biological Resources – Sensitive Habitats	<p><u>Mitigation Measure BIO-17</u></p> <p>Following construction, the area of riparian, wetland, and Monterey pine forest impacted during construction shall be quantified and revegetated. A Revegetation Plan shall be prepared by a qualified biologist and submitted to the District for approval prior to the initiation of construction. The plan shall include the following:</p> <ul style="list-style-type: none"> <li>• a description of the baseline conditions of the habitats impacted;</li> <li>• a detailed description of revegetation areas, sources for plant material, seeding and planting specifications, and any measures required by regulatory permits (such as increased planting ratio to ensure the 1:1 success ratio);</li> <li>• procedures to control non-native species invasion and elimination of existing non-native species within the revegetation areas; and</li> <li>• a monitoring program that describes annual monitoring efforts which incorporate success criteria and contingency plans if success criteria are not met.</li> </ul>	Prior to and Following Construction	Carmel Area Wastewater District, Qualified Biologist	Construction Manager, Carmel Area Wastewater District
Cultural Resources	<p><u>Mitigation Measure CR-1</u></p> <p>If archaeological resources or human remains are unexpectedly discovered during construction, work shall be halted within 50 meters (±160 feet) of the find until it can be evaluated by a qualified professional archaeologist. If the find is determined to be significant, appropriate mitigation measures shall be formulated and implemented, with the concurrence of the District. The County Coroner shall be notified in accordance with provisions of Public Resources Code 5097.98-99 in the event human remains are found and the Native American Heritage Commission shall be notified in accordance with the provisions of Public Resources Code section 5097 if the remains are determined to be of Native American origin.</p>	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District
Transportation	<p><u>Mitigation Measure TR-1</u></p> <p>The construction crew will only access the site via Canada Court or Canyon Drive to the north. Construction vehicles used for mobilization and demobilization of equipment, deliveries or construction materials, and off-hauling of construction materials will not access the project site via Carmel Valley Road during peak commuting hours. In addition, construction vehicles may only turn right when entering the project site via Carmel Valley Road and construction vehicles exiting the project site may only turn right on Carmel Valley Road.</p>	During Construction	Construction Contractor	Construction Manager, Carmel Area Wastewater District

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Tribal Cultural Resources	<p><u>Mitigation Measure TC-1</u></p> <p>Because of their continuing interest in potential discoveries during construction, all listed Native American Contacts shall be notified of any and all discoveries of archaeological resources in the project area.</p>	During Construction	Carmel Area Wastewater District	Construction Manager, Carmel Area Wastewater District
Tribal Cultural Resources	<p><u>Mitigation Measure TC-2</u></p> <p>A representative from the OCEN tribe shall be available during all construction activities.</p>	During Construction	Carmel Area Wastewater District	Construction Manager, Carmel Area Wastewater District