

Redwood Park Tank Project

Mitigation Monitoring and Reporting Program

San Lorenzo Valley Water District

13060 Highway 9

Boulder Creek, California 95006

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Overview

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). The Mitigation Monitoring and Reporting Program (MMRP) is designed to ensure compliance with adopted mitigation measures during project implementation. For each applicable mitigation measure recommended in this Initial Study – Mitigated Negative Declaration, specifications are made herein that identify the action required and the monitoring that must occur. In addition, a responsible party is identified for verifying compliance with individual conditions of approval contained in the Mitigation Monitoring and Reporting Program.

To implement this MMRP, the San Lorenzo Valley Water District (SLVWD) shall designate a Project Mitigation Monitoring and Reporting Coordinator (“Coordinator”). The coordinator shall be responsible for ensuring that the mitigation measures incorporated into the project are complied with during project implementation.



Mitigation Measure/Condition of Approval	Action Required	Timing	Monitoring Frequency	Responsible Agency or Party	Initial	Date	Comments
BIOLOGICAL RESOURCES							
BIO-1 Worker Environmental Awareness Program (WEAP). 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 project area. The specifics of this program shall include identification of the special status species and 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 of the project. All employees shall sign a form provided by the trainer documenting they have attended the WEAP and understand the information presented to them. The form shall be submitted to SLVWD to document compliance.	Review factsheet to confirm information requirements are met. Confirm fact sheet availability/distribution. Verify that all personnel associated with project construction activities in Environmentally Sensitive Areas have attended the WEAP.	Prior to start of construction. During construction period as new workers visit the site, or when construction involves a new area with different species considerations.	Once. Periodically.	San Lorenzo Valley Water District			
BIO-2 Preconstruction Nesting Raptor and Bird Surveys and Avoidance. To avoid impacts to nesting bird species and raptors, all initial ground-disturbing activities and tree removal shall be limited to the time period between September 15 and February 1. If initial ground-disturbing activities and tree removal cannot be limited to this time period, the project contractor shall complete a pre-construction survey to determine if active nests are within the project area limits, or sufficiently close to project activity to be disturbed by construction activities. Surveys shall be conducted by a qualified biologist. Construction activity shall be scheduled so that no	Verify that a qualified biologist has performed a nesting bird pre-construction survey; review results submitted by biologist. If active bird nests are located during the pre-construction survey, qualified biologist establishes appropriate buffer zones and monitors nests.	Prior to start of construction (within 14 days), if during nesting season. Not required outside nesting season. During construction, based on conditions.	Once. Periodically.	San Lorenzo Valley Water District			

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<p>more than 14 days elapse between the pre-construction survey and the commencement of any activity that would potentially disturb trees or shrubs in the nesting zone. Significant delays in project activity would necessitate a new pre-construction survey. The pre-construction survey should determine if birds are breeding and/or nesting in the construction zone or within 300 feet (500 feet for raptors) of the construction zone. Pre-construction nesting bird and raptor surveys shall be conducted during the time of day when birds are active and shall be of sufficient duration to reliably conclude presence/absence of nesting birds and raptors on site and within the designated vicinity.</p> <p>If no nests are found, no further action is required. If nests are found, an avoidance buffer will be established by the qualified biologist. The size of the buffer shall be based upon the species, presence of screening vegetation, the proposed work activity, ambient levels of human activity, and existing disturbances associated with land uses outside of the site to ensure the nesting activity is not disrupted. The avoidance buffer shall be demarcated by the biologist with bright orange construction fencing, flagging, construction lathe, or other means to mark the boundary until the adults and young are no longer reliant on the nest site. The qualified biologist shall monitor construction activities that occur near active nest areas to ensure that no inadvertent adverse impacts affect the nest.</p>							
<p>BIO-3 Western Bumble Bee Preconstruction Surveys and Avoidance. A qualified biologist(s) shall conduct a pre-construction survey within 14 days of the onset of work. The pre-construction survey effort shall be conducted for a minimum of one hour. The purpose of the survey is to identify and completely avoid individuals and colonies of western bumble bee. If bumble bees of any species are</p>	<p>Verify that a qualified biologist has conducted pre-construction surveys for western bumble bee; review results submitted by biologist.</p> <p>Verify that bee colonies are avoided during the active season from March 1 to November 1.</p>	<p>Prior to start of construction.</p> <p>During construction.</p>	<p>Once.</p> <p>As needed.</p>	San Lorenzo Valley Water District			

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observed, they shall be photographed for identification following the USFWS guidance in Appendix A of Standardized Bee Photography in the Survey Protocols for the Rusty Patched Bumble Bee (<i>Bombus affinis</i>). If construction begins between March 1st and November 1st, 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>BIO-4 Special Status Bats Preconstruction Surveys and Avoidance. A preconstruction bat emergence survey shall be conducted no more than 14 days prior to the start of construction by a qualified biologist to determine if any trees designated for removal functions as a maternity or temporary roost. Emergence times may vary dependent on species, weather conditions, and time of year and should occur when conditions are favorable (higher temperatures, high humidity, low wind, no precipitation), and timed to capture bat emergence (typically occurring between sunset and midnight).</p> <p>Emergence surveys shall be conducted during the maternity season for bats (May 1 through August 31). During September, bats begin to enter their hibernaculum stage in preparation for colder months and may not emerge from their roosts, and emergence surveys would not be conclusive. If bats are identified roosting in trees to be removed, eviction measures can be implemented for non-maternity roosts. Install exclusion netting (specific for bats to prevent re-entry) or other suitable exclusion methods (as determined by a qualified biologist) at roost openings to allow bats to exit but prevent their re-entry into the roost. Nets or</p>	<p>Verify that a qualified biologist has conducted pre-construction bat surveys; review results submitted by biologist.</p> <p>If construction is required between May 1 and August 31, verify that a qualified biologist has conducted emergence surveys.</p> <p>If maternity bat roosts are identified in trees to be removed, verify that tree removal will occur outside the maternity season (May 1 to August 31).</p> <p>If non-maternity bat roosts are identified in trees to be removed, verify that tree eviction measures have been implemented and tree removal is monitored by a qualified biologist.</p>	<p>Prior to start of construction.</p> <p>During construction.</p> <p>During construction.</p> <p>During construction.</p>	<p>Once.</p> <p>As needed.</p> <p>As needed.</p> <p>As needed.</p>	San Lorenzo Valley Water District			

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exclusion devices would have to be regularly checked to prevent wildlife entrapment. Exclusion devices should be left in place and monitored daily for seven days to confirm the exclusion is successful prior to tree removal. Tree removal should be monitored by a qualified bat biologist in case any further individual relocation is necessary. Removal of trees that have an identified maternity roost shall be scheduled outside the maternity season, and shall follow the procedures outlined above.							
BIO-5 Preconstruction Amphibian Surveys and Avoidance. Immediately prior to initial ground disturbance and vegetation removal, a qualified biologist shall conduct a preconstruction clearance survey of the site for special status amphibians. If California giant salamander and/or Santa Cruz black salamander are observed on site, they shall be relocated to suitable habitat in the immediate vicinity by the qualified biologist. The following additional measures shall be implemented to reduce potential impacts: <ul style="list-style-type: none"> ▪ Vegetation disturbance shall be the minimum necessary to achieve the goals of the project. ▪ All trash shall be removed from the site daily and disposed of properly to avoid attracting potential predators to the site. ▪ No pets shall be permitted on site during project activities. ▪ All vehicles shall be in good working condition and free of leaks. All leaks shall be contained and cleaned up immediately to reduce the potential of soil/vegetation contamination. ▪ All hole and trenches shall be covered at the end of the day or ramped to avoid entrapment. 	<p>Verify that a qualified biologist has conducted a preconstruction clearance survey for special status amphibians; review results submitted by biologist.</p> <p>Verify that vegetation disturbance is minimized.</p> <p>Verify that the site is free of trash and removed.</p> <p>Verify that no pets are on-site.</p> <p>Verify that vehicles are free of leaks, and that spills/leaks are cleaned up and reported.</p> <p>Verify that all holes and trenches are covered at the end of the day.</p>	<p>Prior to start of construction.</p> <p>At all times.</p> <p>At all times.</p> <p>At all times.</p> <p>At all times.</p> <p>At all times.</p>	<p>Once.</p> <p>Periodically.</p> <p>Periodically.</p> <p>Periodically.</p> <p>Periodically.</p> <p>Periodically.</p>	San Lorenzo Valley Water District			

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GEOLOGY AND SOILS							
GEO-1 Geotechnical Investigation Recommendations. The project contractor shall implement the recommendations identified in the geotechnical investigation prepared for the proposed project by Haro, Kasunich, and Associates, Inc. in August 2019.	<p>Verify that the contractor will implement geotechnical recommendations.</p> <p>Field verify that recommendations are in place during construction activities.</p>	<p>Prior to approval of grading plans.</p> <p>Field verify during construction activities.</p>	<p>Once.</p> <p>Periodically.</p>	San Lorenzo Valley Water District			
NOISE							
N-1 Use of Non-Vibratory or Pneumatic Tired Rollers. Construction activities shall use non-vibratory smooth wheel rollers or pneumatic tired rollers instead of vibratory rollers in order to reduce potentially significant groundborne vibration impacts on residences near the project site. Non-vibratory smooth wheel rollers and pneumatic tired rollers do not generate substantial vibration.	<p>Verify that non-vibratory or pneumatic rollers are included in contractor's specifications.</p> <p>Field verify compliance with measure.</p>	<p>Prior to issuance of contractor's specifications.</p> <p>During construction.</p>	<p>Once.</p> <p>Periodically.</p>	San Lorenzo Valley Water District			