



# Country Club Replacement Well and 1,2,3-Trichloropropane Removal Water Treatment Plant

## Mitigation Monitoring and Reporting Program

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# **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 the Soquel Creek Water District (SqCWD) Country Club Replacement Well and 1,2,3-Trichloropropane Removal Water Treatment Plant Project. For each mitigation measure required in the Final 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.

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Mitigation Measure	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Compliance Verification Initial	Compliance Verification Date	Compliance Verification Comments
<b>Biological Resources</b>							
<b>BIO-1: Implementation of Roosting Bat Surveys and Protection Plan</b>							
<p>Prior to tree removal or structure demolition, a qualified biologist shall conduct a focused survey of all trees within the project boundaries and the existing well pump enclosure, to determine whether active roosts of special-status bats are present on site. If tree removal or structure demolition is planned for the fall or winter, the survey shall be conducted in September to ensure tree removal would have adequate time to occur outside periods of hibernation and during seasonal periods of bat activity (March 1 to April 15, September 1 to October 15, or in any month when evening temperatures rise above 45 degrees Fahrenheit and/or no more than 0.5 inch of rainfall within 24 hours occurs, as described below). If tree removal is planned for the spring, then the survey shall be conducted during the earliest feasible time in March to allow for suitable conditions for the detection of bats, and subsequent tree removal. Trees containing suitable potential bat roost habitat features shall be clearly marked or identified. If day roosts are found to be potentially present, the biologist shall prepare a site-specific roosting bat protection plan to be implemented by the contractor following SqCWD's approval. The plan shall incorporate the following guidance as appropriate:</p> <ul style="list-style-type: none"> <li>When feasible, removal of trees and structures identified as suitable roosting habitat shall be seasonally timed to avoid disturbance during the hibernation and breeding seasons, including the following:</li> </ul>	1.	Retain a qualified biologist to conduct a focused tree and structure survey for active roosts and review survey results	1.	Prior to tree removal or structure demolition, in September if tree removal or structure demolition is planned for the fall or winter or at the earliest feasible time in March if tree removal is planned for the spring	1.	Once	Soquel Creek Water District
	2.	Review site-specific roosting bat protection plan	2.	Prior to tree removal or structure demolition	2.	Once	
	3.	Field verify compliance with any avoidance requirements, including any necessary pre-construction visual or acoustic emergence surveys, as needed	3.	Prior to and during initial site disturbance activities, as needed, until trees are removed	3.	Periodically	

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	<ol style="list-style-type: none"> <li>1. Between September 1 and about October 15, or before evening temperatures fall below 45 degrees Fahrenheit and/or more than 0.5 inch of rainfall within 24 hours occurs.</li> <li>2. Between March 1 and April 15, or after evening temperatures rise above 45 degrees Fahrenheit and/or no more than 0.5 inch of rainfall within 24 hours occurs.</li> </ol> <ul style="list-style-type: none"> <li>▪ If a tree or structure must be removed during the breeding season and is identified as potentially containing a maternity roost, then a qualified bat biologist shall conduct visual or acoustic emergence surveys or implement other appropriate methods as determined by the bat biologist to further evaluate if the roost is an active maternity roost. If it is determined that an active maternity roost of a colonial roosting species is present, the roost shall not be disturbed during the breeding season (April 15 to August 31). If it is determined to not be an active maternity roost, the tree or structure may be removed under the guidance of the qualified bat biologist.</li> <li>▪ Potential non-colonial hibernation roosts shall only be removed during seasonal periods of bat activity outside the hibernation and breeding seasons. Potential non-colonial roosts that cannot be avoided shall be removed on warm days in late morning to afternoon when any bats present are likely to be warm and able to fly. Appropriate methods as determined by the qualified bat biologist shall be used</li> </ul>						

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<p>to minimize the potential harm to bats during tree or structure removal. For trees, such methods may include using a two-step tree removal process. This method is conducted over two consecutive days and works by creating noise and vibration by cutting non-habitat branches and limbs from habitat trees using chainsaws only (i.e., no excavators or other heavy machinery) on the first day with the remainder of tree removal occurring on the second day.</p>							
<p><b>BIO-2: Implementation of Nesting Bird Surveys and Avoidance Buffers</b></p>							
<p>To avoid disturbance of nesting and special-status birds or migratory species protected by the Migratory Bird Treaty Act and California Fish and Game Code Sections 3503, 3503.5, and 3513, activities related to the project, including but not limited to vegetation and/or tree removal, shall occur outside of the bird breeding season (February 1 through August 30) if feasible. If ground disturbance, vegetation removal, or heavy equipment work must begin within the breeding season, then a pre-construction nesting bird survey shall be conducted no more than 14 days prior to the start of construction. The pre-construction nesting bird survey shall be conducted by a qualified biologist within the disturbance footprint and a 300-foot buffer, using binoculars where access is limited.</p> <p>If nests are found, an avoidance buffer shall be established by a qualified biologist. The buffer shall be established on the project site to ensure nesting activity is not disturbed by project construction activity and shall be determined by the qualified biologist based on the species'</p>	1.	Retain a qualified biologist to conduct a preconstruction nesting bird survey and review survey results	1.	Within 14 days prior to initial ground disturbance if ground disturbance, vegetation removal, or heavy equipment work begins between February 1 and August 30	1.	Once	Soquel Creek Water District
	2.	Field verify compliance with any avoidance requirements, as needed	2.	During initial site disturbance activities, as needed, until nests are inactive	2.	Weekly, as needed	

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known tolerances, the proposed work activity, and existing disturbances associated with land uses outside of the site. The buffer shall be demarcated by the biologist on the project site with bright construction fencing, flagging, construction lathe, or other means to mark the boundary. All construction personnel shall be notified as to the existence of the buffer zone and to avoid entering the buffer zone during the nesting season. No construction activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting has completed, and the young have fledged the nest, or the nest has become otherwise inactive. Encroachment into the buffer shall occur only at the discretion of the qualified biologist. If construction activities at the project site cease for more than 14 days during the bird nesting season, an additional survey shall be conducted for the work area. If active nests are located, the aforementioned buffer zone measures shall be implemented.							
<b>Cultural Resources</b>							
<b>CR-1: Unanticipated Archaeological Resources</b>							
In the unlikely event archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 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 the find is prehistoric, then a local Native American representative shall also be contacted to participate in the evaluation of the find. Impacts to the find shall be avoided to the extent feasible; methods of avoidance may	<ol style="list-style-type: none"> <li>1. Retain an archaeologist meeting the Secretary of Interior's Professional Qualifications Standards, if needed</li> <li>2. Field verify required evaluation of the identified resource</li> <li>3. If avoidance is infeasible, prepare plan to reduce impacts to less than significant</li> </ol>	During ground-disturbing activities, as needed and if cultural resource is identified	As needed	Soquel Creek Water District			

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include, but shall not be limited to, capping, or fencing, or project redesign. If necessary, the archaeologist may be required to prepare a treatment plan for archaeological testing in consultation with the local Native American representative. If the discovery proves to be eligible for the California Register of Historical Resources 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.	and conduct required consultation, if needed						
<b>Geology and Soils</b>							
<b>GEO-1: Prepare and Implement a Paleontological Mitigation and Monitoring Plan</b>							
<p>Prior to initial ground-disturbing construction activity, SqCWD shall retain a Qualified Paleontologist to design a Paleontological Mitigation and Monitoring Program (PMMP). The PMMP shall include Worker Environmental Awareness Program training to be delivered at a preconstruction meeting for all on-site construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction personnel. A qualified professional paleontologist is defined by the Society of Vertebrate Paleontology (2010) standards as an individual preferably with an M.S. or Ph.D. in paleontology or geology who is experienced with paleontological procedures and techniques, who is knowledgeable in the geology of California, and who has worked as a paleontological mitigation project supervisor for a least two years. The PMMP shall include the requirement for monitoring by a qualified paleontological monitor for excavations that have the potential</p>	1. Retain a Qualified Paleontologist	1. Prior to initial ground-disturbing construction activities	1. Once	Soquel Creek Water District			
	2. Review and approve Paleontological Mitigation and Monitoring Program	2. Prior to initial ground-disturbing construction activities	2. Once				
	3. Verify implementation of Worker Environmental Awareness Program training	3. Prior to initial ground-disturbing construction activities	3. Once				
	4. Verify presence of qualified paleontological monitor during ground disturbing activities in native soils greater than five feet in depth	4. During ground-disturbing construction activities	4. Periodically				

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<p>to impact intact (native) Quaternary old (Pleistocene) marine terrace deposits (Qmt), Aromas Sand (Qar), and Pliocene Purisima Formation (Ppu). Ground disturbing activities less than five feet in depth or into previously disturbed sediments (fill) do not require paleontological monitoring. The duration and timing of the monitoring shall be determined by the Qualified Paleontologist in consideration of the location and extent of ground disturbance. If the Qualified Paleontologist determines that full-time monitoring is not warranted based on the specific geologic conditions at the surface or at depth, the Qualified Paleontologist may recommend that monitoring be reduced to periodic spot-checking or cease entirely. A qualified paleontological monitor is defined as an individual who meets the minimum qualifications per standards set forth by the Society of Vertebrate Paleontology (2010), which includes a Bachelor of Science or Bachelor of Arts degree in geology or paleontology with one year of monitoring experience and knowledge of collection and salvage of paleontological resources. If no resources are discovered during construction, no further mitigation is required. If a paleontological resource is discovered, Mitigation Measure GEO-2 shall be implemented.</p>							



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<b>GEO-2 Fossil Discovery, Preparation, Curation, and Reporting</b>							
<p>If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert construction equipment around the find, when doing so is safe and does not compromise the structural integrity of the construction work, until the find is assessed for scientific significance and collected in a safe and timely manner.</p> <p>Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition, and curated in an approved scientific institution with a permanent paleontological collection along with all pertinent field notes, photos, data, and maps.</p> <p>At the conclusion of laboratory work and museum curation for scientifically significant fossils discovered at the site, a positive findings report shall be prepared describing the results of the paleontological mitigation 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. If no fossils are discovered during the project, a negative findings report shall be prepared to describe the results of the paleontological mitigation monitoring efforts. The final report shall be submitted to SqCWD and responsible agencies (e.g., the County of Santa Cruz). If the monitoring efforts produced fossils, then a copy</p>	1.	Field verify required evaluation of the identified resource	1.	During ground-disturbing construction activities	1.	As needed	Soquel Creek Water District
	2.	If identified resource is a scientifically significant fossil, review and approve positive findings report	2.	After completion of ground-disturbing construction activities	2.	Once, if scientifically significant fossils are found	
	3.	If no scientifically significant fossils are found, review and approve negative findings report	3.	After completion of ground-disturbing construction activities	3.	Once, if no scientifically significant fossils are found	
	4.	Verify submittal of report to appropriate agencies	4.	After completion of ground-disturbing construction activities	4.	Once	

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of the report shall also be submitted to the designated museum repository.							
<b>Noise</b>							
<b>N-1 Construction Noise Reduction Plan</b>							
<p>SqCWD shall implement a Construction Noise Reduction Plan prior to and during construction activities for both the replacement well and water treatment plant. A disturbance coordinator shall be designated for the project to implement the provisions of the plan. At a minimum, the Construction Noise Reduction Plan shall include the following requirements:</p> <ul style="list-style-type: none"> <li>▪ Whenever feasible, construction activities shall be scheduled to avoid operating several pieces of equipment simultaneously.</li> <li>▪ Maximum physical separation, as far as practicable, shall be maintained between construction equipment and adjacent residences.</li> <li>▪ All heavy-duty stationary construction equipment shall be placed so that emitted noise is directed away from the nearest sensitive receivers.</li> <li>▪ All equipment, fixed or mobile, shall be operated with closed engine doors and shall be equipped with properly operating and maintained critical grade mufflers consistent with manufacturers' standards.</li> <li>▪ Portable sound enclosures shall be used for all generators and air compressors that provide at least a 10-dBA reduction in noise levels.</li> <li>▪ The SqCWD shall include construction specification requirements for installation</li> </ul>	1.	Prepare a Construction Noise Reduction Plan	1.	Prior to the start of construction of each project component	1.	Once	Soquel Creek Water District
	2.	Include construction noise measures in construction contractor specifications	2.	Prior to the start of construction of each project component	2.	Once	
	3.	Contact all residents within 100 feet of the project site and offer hotel accommodations for the duration of 24-hour well drilling activities (i.e., well drilling activities that occur continuously for 24 hours or more)	3.	Prior to the start of 24-hour well drilling activities	3.	Once before each period of 24-hour well drilling	
	4.	Provide non-automated telephone number for local residents to submit complaints	4.	Prior to the start of construction	4.	Once	
	5.	Provide written notification of 24-hour well drilling activities for local residents within a 500-foot radius of the project site	5.	Between two weeks and one month prior to well drilling activities	5.	Once	
	6.	Field verify compliance with construction noise reduction measures	6.	During construction	6.	Periodically	

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<p>and maintenance of temporary sound barriers and/or blankets during construction activities. The temporary sound barriers and/or blankets shall be installed around the construction site boundaries. The temporary barriers/blankets shall have a minimum sound transmission loss of 21 dB and noise reduction coefficient of 0.75. Additionally, the temporary barriers/blankets shall be of sufficient height to intercept the line of sight between the noise-generating source of the construction equipment (i.e., the exhaust) and nearby residential receivers. If temporary blankets are used instead of a barrier, they shall be of sufficient height to extend from the top of the temporary construction fence and drape on the ground or be sealed at the ground. The temporary barriers/blankets shall be a minimum of 11 feet in height. The temporary barriers/blankets shall have grommets along the top edge with exterior grade hooks, and loop fasteners along the vertical edges with overlapping seams, with a minimum overlap of 2 inches.</p> <ul style="list-style-type: none"> <li>▪ The SqCWD shall offer to provide hotel accommodations for all residents within 100 feet of the project site for the duration of 24-hour well drilling activities.</li> <li>▪ A non-automated “hotline” telephone number for registering construction noise complaints shall be posted at construction site and shall be provided to all residences within 630 feet of the project site along with the estimated construction schedule. The disturbance coordinator shall</li> </ul>							

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	<p>determine the cause of noise complaints and institute actions warranted to correct the issue. All complaints shall be logged noting the date, time, complainant's name, nature of the complaint, and any corrective action taken.</p> <ul style="list-style-type: none"> <li>At least two weeks prior to well drilling activities, but no more than one month in advance, written notification shall be provided to residents located within 500 feet of the project site identifying the type, duration, and frequency of 24-hour well drilling construction activities.</li> </ul>						

**Transportation**

**T-1 Address Potential Transportation Safety Conflicts (Voluntary Measure)**

<p>SqCWD shall include a requirement for the western edge of the construction site to be fenced and a prohibition on heavy-duty construction equipment and haul trucks entering/exiting the project site during school pick-up and drop-off times (typically between 7:15 and 8:10 a.m. on weekdays, between 1:45 and 2:30 p.m. on Mondays, Tuesdays, Thursdays, and Fridays; and between 12:00 and 12:40 p.m. on Wednesdays during the school year) in the construction contractor specifications. SqCWD shall also inform Rio del Mar Elementary School and the Pajaro Valley Unified School District of the anticipated construction timeframe at least two weeks in advance of the start of construction activities so that Rio del Mar Elementary School and/or the Pajaro Valley Unified School District may notify parents and guardians of students of the potential for transportation safety conflicts along Baltusrol Drive and Baltusrol Way. In</p>	1.	Include requirements to address potential transportation safety conflicts in construction contractor specifications and verify compliance	1.	Prior to the start of construction for each project component and periodically during construction activities	1.	Once and periodically during construction activities	Soquel Creek Water District
	2.	Inform Rio del Mar Elementary School and the Pajaro Valley Unified School District of the anticipated construction timeframe	2.	At least two weeks prior to the start of construction activities for each project component	2.	Once	
	3.	Inform construction contractor(s) and personnel of potential safety conflicts and communicate the need for elevated safety awareness	3.	At the pre-construction meeting for each project component	3.	Once	

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addition, at the project’s pre-construction meeting(s), SqCWD shall inform its construction contractor(s) and their personnel of the potential safety conflicts associated with school-related parking along Baltusrol Drive and Baltusrol Way.	during school pick-up and drop-off times						