

# Appendix H

---

## Mitigation, Monitoring, and Reporting Program

## E Reservoir Replacement and Pump Station Project

### MITIGATION MONITORING AND REPORTING PROGRAM

The California Public Resources Code, Section 21081.6, requires that a lead or responsible agency adopt a mitigation monitoring and reporting plan when approving or carrying out a project when a Mitigated Negative Declaration identifies measures to reduce potential environmental impacts. As lead agency for the project, Vista Irrigation District is responsible for adoption and implementation of the mitigation monitoring and reporting program.

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	Planning	Pre-Construction	During Construction	Post-Construction		Monitor	Report		
<i>Biological Resources</i>									
<b>MM-BIO-1 Pre-Construction Nesting Birds Surveys and Reporting.</b> To avoid impacts to breeding and nesting birds in accordance with the Migratory Bird Treaty Act and California Fish and Game Code, construction activities shall take place outside of the nesting season; nesting season is March 1 (January 1 for raptors) through September 15. If construction cannot take place outside the nesting season, a breeding/nesting bird survey shall be conducted by a qualified biologist within 72 hours prior to ground-disturbing activities to determine if active nests of bird species protected by the Migratory Bird Treaty Act and/or the California Fish and Game Code are present in the impact area or within 300 feet of the impact area. If active nests are found, an avoidance buffer shall be established (typically 50 to 300 feet, depending on the species) until the nest is vacated and juveniles have fledged, as determined by the biologist, and there is no evidence of a second attempt at nesting. Limits of construction to avoid an active nest shall be established in the field with flagging, fencing, or other appropriate barriers and construction personnel shall be instructed on the sensitivity of nest areas. A survey and monitoring report documenting the pre-construction survey results and implemented avoidance	x	x	x		Vista Irrigation District				

## E Reservoir Replacement and Pump Station Project

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	Planning	Pre-Construction	During Construction	Post-Construction		Monitor	Report		
measures shall be submitted.									
<i>Cultural Resources</i>									
<p><b>MM-CUL-1</b> Prior to the start of construction, a worker environmental awareness training program (WEAP) shall be implemented at the construction kickoff meeting to inform construction workers of the cultural sensitivity of the general area and of the types of artifacts that are commonly found during construction in the region. In the event that unanticipated discoveries are encountered during future project undertakings, all activity shall cease within 50 feet of the find until a qualified archaeologist can determine the significance of the find and appropriate mitigation. Examples of prehistoric resources may include: stone tools and manufacturing debris; milling equipment such as bedrock mortars, portable mortars, and pestles; darkened or stained soils (midden) that may contain dietary remains such as shell and bone; and human remains. Historic resources may include: burial plots; structural foundations; mining spoils piles and prospecting pits; cabin pads; and trash scatters consisting of cans with soldered seams or tops, bottles, cut (square) nails, and ceramics; paleontological resources. The WEAP training shall also inform construction personnel on what to do in the event of a discovery.</p> <p>In the event that unanticipated archaeological resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring in the immediate vicinity of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the California Environmental Quality Act (CEQA) (14 CCR 15064.5[f]; California Public Resources Code Section 21082) the archaeologist may record the find to</p>		x	x		Vista Irrigation District				

## E Reservoir Replacement and Pump Station Project

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	Planning	Pre-Construction	During Construction	Post-Construction		Monitor	Report		
	appropriate standards (thereby addressing any data potential) and allow work to continue. If the archaeologist observes the discovery to be potentially significant under CEQA or Section 106 of the National Historic Preservation Act, additional efforts may be warranted as recommended by the qualified archaeologist.								
<b>MM-CUL-2</b> In accordance with Section 7050.5 of the California Health and Safety Code, if potential human remains are found, all work in the immediate vicinity shall be suspended and the county coroner shall be immediately notified of the discovery. The coroner shall provide a determination within 48 hours of notification. No further excavation or disturbance of the identified material, or any area reasonably suspected to overlie additional remains, shall occur until a determination has been made. If the county coroner determines that the remains are, or are believed to be, Native American, they shall notify the Native American Heritage Commission (NAHC) within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendent (MLD) from the deceased Native American. Within 48 hours of their notification, the MLD will recommend to the lead agency their preferred treatment of the remains and associated grave goods.			x		Vista Irrigation District				
<i>Noise</i>									
<b>MM-NOI-1 Construction Noise Reduction.</b> The Vista Irrigation District (VID) and/or its construction contractor shall comply with the following measures during construction: 1. Construction activities shall not occur between the hours of 7:00 p.m. and 7:00 a.m. Monday through Saturdays, or on Sundays or national holidays. In the event that construction is required to extend beyond these times, extended hours permits shall be required. 2. Equipment (e.g., portable generators) shall be shielded from sensitive uses		x	x		Vista Irrigation District				

## E Reservoir Replacement and Pump Station Project

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	Planning	Pre-Construction	During Construction	Post-Construction		Monitor	Report		
	<p>using local temporary noise barriers or enclosures or shall otherwise be designed or configured to minimize noise at nearby noise-sensitive receptors.</p> <p>3.All noise-producing equipment and vehicles using internal combustion engines should be equipped with mufflers; air-inlet silencers, where appropriate; and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed “package” equipment (e.g., arc-welders, air compressors) should be equipped with shrouds and noise control features that are readily available for that type of equipment.</p> <p>4.All mobile or fixed noise-producing equipment used on the project facilities that are regulated for noise output by a local, state, or federal agency should comply with such regulation while in the course of project activity.</p> <p>5.Idling equipment should be kept to a minimum and moved as far as practicable from noise-sensitive land uses.</p> <p>6.Electrically powered equipment should be used instead of pneumatic or internal-combustion-powered equipment, where feasible.</p> <p>7.Material stockpiles and mobile equipment staging, parking, and maintenance areas should be located as far as practicable from noise-sensitive receptors.</p> <p>8.The use of noise-producing signals, including horns, whistles, alarms, and bells, should be for safety warning purposes only.</p> <p>9.Residences within 500 feet of the construction site should be notified of the construction schedule in writing at least 3 calendar days prior to construction. VID or its contractor(s) shall designate a noise disturbance point of contact who would be responsible for responding to complaints regarding construction noise. The point of contact should make reasonable effort to investigate the cause of the complaint and, if indeed related to construction noise attributed to the</p>								

## E Reservoir Replacement and Pump Station Project

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	Planning	Pre-Construction	During Construction	Post-Construction		Monitor	Report		
project, see that reasonable measures are implemented to help address the problem. A contact number for the noise disturbance point of contact should be conspicuously placed on construction site fences and written into the construction notification schedule sent to nearby residences.									
<p><b>MM-NOI-2 Blasting Requirements.</b> Blasting for rock excavation shall be only be used by the contractor upon receipt of approval by Vista Irrigation District and after other non-explosive techniques have been exhausted, such as rock breaking attachments (both with and without pre-drilling), hydro-fracturing, and expansive chemical agents. If blasting is required for rock excavation, Vista Irrigation District or its contractor shall prepare a blasting plan that will reduce impacts associated with construction-related noise, drilling operations and vibrations related to blasting. The blasting plan shall be site specific, based on general and exact locations of required blasting and the results of a project-specific geotechnical investigation. The blasting plan shall include a description of the planned blasting methods, an inventory of receptors potentially affected by the planned blasting, and calculations to determine the area affected by the planned blasting. Noise calculations in the blasting plan shall account for blasting activities and all supplemental construction equipment. The final blasting plan and pre-blast survey shall meet the requirements provided below.</p> <ul style="list-style-type: none"> <li>Prior to blasting, a qualified geotechnical professional shall inspect and document the existing conditions of facades and other visible structural features or elements of the nearest residential buildings. Should this inspector determine that some structural features or elements appear fragile or otherwise potentially sensitive to vibration damage caused by the anticipated blasting activity, the maximum per-delay charge weights and other related blast parameters shall be re-evaluated to establish</li> </ul>		x	x		Vista Irrigation District				

## E Reservoir Replacement and Pump Station Project

Mitigation Measure	Time Frame of Mitigation				Monitoring Reporting Agency	Time Frame for Verification Frequency to		Date of Completion	Date of Verification
	<i>Planning</i>	<i>Pre-Construction</i>	<i>During Construction</i>	<i>Post-Construction</i>		<i>Monitor</i>	<i>Report</i>		
<p>appropriate quantified limits.</p> <ul style="list-style-type: none"> <li>• All blasting shall be performed by a blast contractor and blasting personnel licensed to operate per appropriate regulatory agencies.</li> <li>• Each blast shall be monitored and recorded with an air-blast overpressure monitor and groundborne vibration accelerometer that is located outside the closest residence to the blast. This data shall be recorded, and a post-blast summary report shall be prepared and be available for public review or distribution as necessary.</li> <li>• Blasting shall not exceed 1 inch per second peak particle velocity (PPV) (transient or single-event), or a lower PPV determined by the aforesaid inspector upon completion of the pre-blast inspection, at the façade of the nearest occupied residence</li> <li>• To ensure that potentially impacted residents are informed, the applicant will provide notice by mail to all property owners within 500 feet of the project at least 1 week prior to a scheduled blasting event.</li> <li>• Drilling operations associated with blasting preparations shall be performed in a manner consistent with adherence to guidance that emulates Sections 36.408, 36.409, and 36.410 of the San Diego County Code Noise Ordinance.</li> </ul>									