

Appendix H:
Mitigation Monitoring and Reporting Program

**EMWD Well 204 Initial Study/Mitigated Negative Declaration
Mitigation Monitoring and Reporting Program**

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
BIOLOGICAL RESOURCES			
<p>MM BIO-1: <i>Preconstruction Burrowing Owl Survey.</i> Pre-construction burrowing owl surveys (within 14-days of construction) will be conducted prior to the onset of construction-related activities, which include grading, grubbing, vegetation removal, etc. Pre-construction surveys would follow the guidance outlined in Burrowing Owl Survey Instructions for the Western Riverside MSHCP (2006).</p>	<p>Prior to construction.</p>	<p>Qualified Biologist, EMWD Construction Manager</p>	
<p>MM BIO-2: <i>Preconstruction Nesting Birds Surveys.</i> If vegetation removal is scheduled during the nesting season (typically February 1 to September 1), a preconstruction focused survey for active nests shall be conducted by a qualified biologist (as determined by a combination of academic training and professional experience in biological sciences and related resource management activities) no more than five (5) days prior to the beginning of project-related activities (including but not limited to equipment mobilization and staging, clearing, grubbing, vegetation removal, and grading). Surveys shall be conducted in proposed work areas, staging and storage areas, and soil, equipment, and material stockpile areas. For passerines and small raptors, surveys shall be conducted within a 250-foot radius surrounding the work area (in areas where access is feasible). For larger raptors, such as those from the genus <i>Buteo</i>, the survey area shall encompass a 500-foot radius. Surveys shall be conducted during weather conditions suited to maximize the observation of possible nests and shall concentrate on areas of suitable habitat. If a lapse in project-related work of five (5) days or longer occurs, an additional nest survey shall be required before work can be reinitiated. If nests are encountered during any preconstruction survey, a qualified biologist shall determine if it may be feasible for construction to continue as planned without impacting the success of the nest, depending on conditions specific to each nest and the relative location and rate of construction activities. If the qualified biologist determines construction activities have potential to adversely affect a nest, the biologist shall immediately inform the construction manager to halt construction activities within minimum exclusion buffer of 50 feet for songbird nests, and 200 to 500 feet for raptor nests, depending on species and location. Active nest(s) within the Project Site shall be monitored by a qualified biologist during construction if work is occurring directly adjacent to the established no-work buffer. Construction activities within the no-work buffer may</p>	<p>Prior to construction.</p>	<p>Qualified Biologist, EMWD Construction Manager</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>proceed after a qualified biologist determines the nest is no longer active due to natural causes (e.g. young have fledged, predation, or other non-anthropogenic nest failure).</p>			
CULTURAL RESOURCES			
<p>MM CUL-1: <i>Cultural Resources Treatment and Monitoring Agreement.</i> At least 30 days prior to the start of any ground-disturbing activities, EMWD shall contact the Consulting Tribe(s) to develop Cultural Resource Treatment Monitoring Agreement(s) ("Agreement"). The Agreement(s) shall address the treatment of archaeological resources inadvertently discovered on the project site; project grading; ground disturbance and development scheduling; the designation, responsibilities, and participation of tribal monitor(s) during grading, excavation, and ground disturbing activities; and compensation for the tribal monitors, including overtime, weekend rates, and mileage reimbursements.</p>	<p>Prior to construction.</p>	<p>Tribal Monitor, EMWD Construction Manager</p>	
<p>MM CUL-2: <i>Develop a Cultural Resources Monitoring Plan.</i> Prior to any grading activities, a Cultural Resources Monitoring Plan shall be prepared by a qualified archaeologist in consultation with the Consulting Tribe(s). The plan shall also identify the location and timing of cultural resources monitoring. The plan shall contain an allowance that the qualified archaeologist, based on observations of subsurface soil stratigraphy or other factors during initial grading, and in consultation with the Native American monitor and the lead agency, may reduce or discontinue monitoring as warranted if the archaeologist determines that the possibility of encountering archaeological deposits is low. The plan shall outline the appropriate measures to be followed in the event of unanticipated discovery of cultural resources during project implementation (including during the survey to occur following vegetation removal and monitoring during ground-disturbing activities). The plan shall identify avoidance as the preferred manner of mitigating impacts to cultural resources. The plan shall establish the criteria utilized to evaluate the historic significance (per CEQA) of the discoveries, methods of avoidance consistent with CEQA Guidelines Section 15126.4(b)(3), as well as identify the appropriate data recovery methods and procedures to mitigate the effect of the project if avoidance of significant historical or unique archaeological resources is determined to be infeasible. The plan shall also include reporting of monitoring results within a timely manner, disposition of artifacts, curation of data, and dissemination of reports to local and state repositories, libraries, and interested professionals. A qualified archaeologist and Consulting Tribe(s) tribal monitor shall attend a pre-grade meeting with EMWD staff, the contractor, and appropriate subcontractors to discuss the</p>	<p>Prior to construction.</p>	<p>Archaeologist, EMWD Construction Manager</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>monitoring program, including protocols to be followed in the event that cultural material is encountered.</p>			
<p>MM CUL-3: <i>Tribal Monitoring Agreements.</i> A qualified archaeological monitor and a Consulting Tribe(s) monitor shall be present for ground-disturbing activities associated with the Project, and both the project archaeologist and Tribal Monitor(s) will make a determination as to the areas with a potential for encountering cultural material. At least seven business days prior to project grading, EMWD shall contact the tribal monitors to notify the Tribe of grading/excavation and the monitoring program/schedule, and to coordinate with the Tribe on the monitoring work schedule. Both the archaeologist and the tribal monitor shall have the authority to stop and redirect grading activities in order to evaluate the nature and significance of any archaeological resources discovered within the project limits. Such evaluation shall include culturally appropriate temporary and permanent treatment pursuant to the Cultural Resources Treatment and Monitoring Agreement, which may include avoidance of cultural resources, in-place preservation, data recovery, and/or reburial so the resources are not subject to further disturbance in perpetuity. Any reburial shall occur at a location predetermined between EMWD and the Consulting Tribe(s), details of which shall be addressed in the Cultural Resources Treatment and Monitoring Agreement in MM CUL-1. Treatment may also include curation of the cultural resources at a tribal curation facility, as determined in discussion among EMWD, the project archaeologist, and the tribal representatives and addressed in the Cultural Resources Treatment and Monitoring Agreement referenced in MM CUL-1.</p>	<p>During construction.</p>	<p>Tribal Monitor, Archaeologist, EMWD Construction Manager</p>	
<p>MM CUL-4: <i>Evaluation of Discovered Artifacts.</i> All artifacts discovered at the development site shall be inventoried and analyzed by the project archaeologist and tribal monitor(s). A monitoring report will be prepared, detailing the methods and results of the monitoring program, as well as the disposition of any cultural material encountered. If no cultural material is encountered, a brief letter report will be sufficient to document monitoring activities.</p>	<p>During construction.</p>	<p>Tribal Monitor, Archaeologist, EMWD Construction Manager</p>	
<p>MM CUL-5: <i>Disposition of Inadvertent Discoveries.</i> In the event that Native American cultural resources are recovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries with the tribe. EMWD shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as part of the required mitigation for impacts to cultural resources, and</p>	<p>During construction.</p>	<p>Tribal Monitor, Archaeologist, EMWD Construction Manager</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>adhere to the following:</p> <ol style="list-style-type: none"> 1) Preservation-in-place is the preferred option; preservation-in-place means avoiding the resources and leaving them in the place where they were found with no development affecting the integrity of the resource. 2) If preservation-in-place is not feasible, on-site reburial of the discovered items as detailed in the Monitoring Plan required pursuant to MM CUL-2 is the next preferable treatment measure. This shall include measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Native American Tribal Governments. 3) In the event that on-site reburial is not feasible, EMWD will enter into a curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 Code of Federal Regulations 800 Part 79 and therefore would be curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the fees necessary for permanent curation. 			
<p>MM CUL-6: <i>Non-Disclosure of Reburial Locations.</i> It is understood by all parties that unless otherwise required by law, the site of any reburial of culturally sensitive resources shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, pursuant to the specific exemption set forth in California Government Code 6254(r), parties, and Lead Agencies will be asked to withhold public disclosure information related to such reburial.</p>	<p>During and after construction.</p>	<p>EMWD Construction Manager</p>	
<p>MM CUL-7: <i>Human Remains.</i> If Native American human remains are encountered, Public Resources Code Section 5097.98 and California Health and Safety Code Section 7050.5 will be followed. If human remains are encountered no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to California Public Resources Code Section 5097.98(b), remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the Riverside County Coroner determines the remains to be Native American, the coroner shall contact the NAHC within 24 hours. Subsequently, the</p>	<p>During construction. District staff shall conduct periodic inspections in the field during construction to ensure measure compliance.</p>	<p>EMWD Construction Contractor</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>NAHC shall identify the person or persons it believes to be the "most likely descendant." The most likely descendant shall then make recommendations and engage in consultations concerning the treatment of the remains as provided in Public Resources Code Section 5097.98.</p>			
GEOLOGY			
<p>MM GEO-1: <i>Prepare Geotechnical Report.</i> Prior to obtaining an encroachment permit from the City of Perris, EMWD shall prepare a geotechnical report that details any design features for the proposed shed, fencing, well, wellhead treatment facility, and any related infrastructure. In addition, the investigation should evaluate the potential for liquefaction to occur onsite in accordance with the recommendations of the California Geological Survey. If portions of the site area identified as liquefiable, mitigation measures will be recommended by the project geotechnical consultant, which the project proponent shall implement in order to reduce the potential for liquefaction related distress to the proposed structures to less than significant.</p>	<p>The Geotechnical Report shall be reviewed and approved by the District prior to issuance of grading permits.</p> <p>The geotechnical engineers for the project shall sign a title block on the grading and drainage plans stating that the recommendations of the Project's geotechnical report have been followed in the approved plans that he or she is signing.</p> <p>District staff shall review and approve of the geotechnical report prior to issuance of grading permits.</p>	<p>Licensed Engineer, Project Manager</p>	
<p>MM GEO-2: <i>Conduct Paleontological Sensitivity Training for Construction Personnel.</i> The Applicant shall retain a professional paleontologist, who meets the qualifications set forth by the Society of Vertebrate Paleontology, shall conduct a Paleontological Sensitivity Training for construction personnel prior to commencement of excavation activities. The training would include a handout and would focus on how to identify paleontological resources that may be encountered during earthmoving activities, and the procedures to be followed in such an event; the duties of paleontological monitors; notification and other procedures to follow upon discovery of resources; and, the general steps a qualified professional paleontologist would follow in conducting a salvage investigation if one is necessary.</p>	<p>During construction.</p>	<p>Paleontologist, EMWD Construction Manager.</p>	
<p>MM GEO-3: <i>Monitor Construction Excavations for Paleontological Resources is required at all depths and strata's below five (5) feet.</i> The Applicant shall retain a qualified paleontological monitor, who would work under the guidance and direction of a professional paleontologist, who meets the qualifications set forth by the Society of Vertebrate Paleontology. The paleontological monitor shall be present during all construction excavations including, but not limited to grading, trenching, boring, and clearing/grubbing). Multiple earth-moving construction activities may require multiple paleontological monitors. The frequency of</p>	<p>During construction.</p>	<p>Paleontologist, EMWD Construction Manager.</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>monitoring shall be based on the rate of excavation and grading. Paleontological monitoring levels can be reduced if appropriate, at the discretion of a professional qualified paleontologist.</p>			
<p>MM GEO-4: <i>Cease Ground-Disturbing Activities and Implement Treatment Plan if Paleontological Resources Are Encountered.</i> In the event that paleontological resources and or unique geological features are unearthed during ground-disturbing activities, ground-disturbing activities shall be halted or diverted away from the vicinity of the find so that the find can be evaluated. A buffer area of at least 50 feet shall be established around the find where construction activities shall not be allowed to continue until appropriate paleontological treatment plan has been approved by the Applicant and the City. Work shall be allowed to continue outside of the buffer area. The Applicant and City shall coordinate with a professional paleontologist, who meets the qualifications set forth by the Society of Vertebrate Paleontology, to develop an appropriate treatment plan for the resources. Treatment may include implementation of paleontological salvage excavations to remove the resource along with subsequent laboratory processing and analysis or preservation in place. At the paleontologist's discretion and to reduce construction delay, the grading and excavation contractor shall assist in removing rock samples for initial processing.</p>	<p>During construction.</p>	<p>Paleontologist, EMWD Construction Manager</p>	
<p>MM GEO-5: <i>Prepare Report Upon Completion of Monitoring Services.</i> Upon completion of the above activities, the professional paleontologist shall prepare a report summarizing the results of the monitoring and salvaging efforts, the methodology used in these efforts, as well as a description of the fossils collected and their significance. The report shall be submitted to the Applicant, the City, the Natural History Museum of Los Angeles County, and representatives of other appropriate or concerned agencies to signify the satisfactory completion of the project and required mitigation measures.</p>	<p>During construction.</p>	<p>Paleontologist, Project Manager</p>	
<p>HYDROLOGY AND WATER QUALITY</p>			
<p>MM HYD-1: <i>Requirements for Contractors to Implement BMPs and Best Available Technologies.</i> EMWD would require contractors to implement BMPs and best available technologies to reduce potential impacts to water quality that would result from construction activities. To reduce or eliminate construction-related water quality impacts before the onset of construction activities, EMWD would obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Construction Permit. Construction activities would comply with the conditions of the permit including preparation of a storm water pollution prevention plan,</p>	<p>Before and during construction.</p>	<p>Project Contractor, EMWD Construction Manager</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>implementation of BMP's, and monitoring impacts, if any, to water quality. As part of this process, multiple BMP's should be implemented to provide effective erosion and sediment control. BMP's to be implemented as part of this mitigation measure may include, but not be limited to, the following:</p> <ul style="list-style-type: none"> • Temporary erosion control measures such as silt fences, staked straw bales, silt/sediment basins and traps, check dams, sandbag dikes, and temporary re-vegetation or other groundcover shall be employed for disturbed areas. • Storm drain inlets on the site and in downstream offsite areas shall be protected from sediment with the use of BMP's acceptable to EMWD, local jurisdictions and the California Regional Water Quality Control Board, Santa Ana Region. • Dirt and debris shall be swept from the construction zone on a regular basis, particularly before predicted rainfall events. • No disturbed surfaces shall be left without erosion control measures in place from early fall to early spring (October 15 and April 15). 			
NOISE			
<p>MM NOI-1: <i>Implement Noise Control BMPs.</i> Consistent with EMWD noise control practices, the following measures shall be implemented to reduce noise from short-term project activities:</p> <p>(a) Scheduling. Noise levels in excess of 65 db shall be allowed only during daytime operations for brief periods of time. Every reasonable effort shall be made to minimize noise levels during nighttime operations to below the allowed 55 dBA, including, as appropriate, limiting activities near sensitive receptors to daytime hours. The measures to be used in effecting noise suppression shall include, but are not limited to, equipping all internal combustion engines with critical residential silencers (mufflers), sound blankets shielding noise-producing equipment from nearest areas of human occupancy by locating in such positions as to direct greatest noise emissions away from such areas, and conducting operations in the most effective manner to minimize noise generation consistent with the execution of the contract in a timely and economic manner.</p> <p>(b) Noise Control Barriers. Noise control barrier walls and equipment shall be installed as needed to achieve a noise level of 55 db or less at the property lines. Noise control barrier walls shall be designed by a registered civil engineer to minimize</p>	<p>During construction.</p>	<p>EMWD Construction Manager</p>	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>disturbance to persons living or working nearby, and to the general public.</p> <p>(c) Equipment Mufflers and Maintenance. Equip all internal combustion engines with critical residential silencers (mufflers); install sound blankets over equipment; shield noise-producing equipment; and install noise control barrier walls.</p> <p>(d) Idling. Prohibit unnecessary idling of internal combustion engines.</p> <p>(e) Equipment Location. Locate all stationary noise-generating equipment, such as air compressors, as far as practical from existing nearby residences and other noise sensitive land uses.</p> <p>(f) Quiet Equipment Selection. Select quiet equipment, particularly air compressors, whenever possible. Fit motorized equipment with proper mufflers in good working order.</p> <p>(g) Noise Disturbance Coordinator. A noise disturbance coordinator responsible for responding to any local complaints about construction noise shall be designated. The disturbance coordinator shall determine the cause of any noise complaint (i.e., bad muffler) and require that reasonable measures be implemented to correct the problem. Prior to beginning of noise-intensive activities, a telephone number for the noise disturbance coordinator shall be prominently included in the notice to be issued by the EMWD to all adjacent residents who may be affected by the project.</p>			
<p>MM NOI-2: <i>Project Equipment Review and Revision by Acoustic Specialist.</i> Prior to any Project design approval, information regarding equipment sound generation characteristics and sufficiency of buffering or other attenuation measures that demonstrate Project compliance with established noise standards shall be reviewed by a qualified acoustical specialist, and any necessary changes to Project plans shall be made.</p>	Project design.	EMWD Construction Manager	
<p>MM NOI-3: <i>Implement Groundborne Vibration BMPs.</i> To reduce groundborne vibration levels on nearby receptors (within 50 feet of project activities) to acceptable levels, incorporate the following measures:</p> <p>(a) Restrict vibration-generating activity to between the hours of 7:00 AM and 7:00 PM, Monday through Friday. (People are more aware of vibration in their homes during the nighttime hours.) Prohibit such activity on weekends and holidays.</p> <p>(b) Operate earth-moving equipment on the construction lot as</p>	During construction.	EMWD Construction Manager	

Mitigation Measure	Timing	Responsibility	Implemented? (Date, Signature, Notes)
<p>far away from vibration-sensitive sites as possible.</p> <p>(c) Phase demolition, earth-moving and ground-impacting operations (including removal of temporary structures) so as not to occur in the same time period. Unlike noise, the total vibration level produced could be significantly less when each vibration source operates separately.</p> <p>(d) Select demolition methods not involving impact, where possible.</p> <p>(e) Avoid vibratory rollers and packers near sensitive areas.</p> <p>(f) Notify nearby residents and property owners prior to the beginning of vibration-generating activities.</p>			