

**MITIGATION MONITORING AND REPORTING PROGRAM**  
**SCH# 2016031090**

**OLIVE VIEW-UCLA MEDICAL CENTER**  
**CAMPUS MASTER PLAN**



**PREPARED FOR:**

County of Los Angeles  
900 South Fremont Avenue  
Alhambra, California 91803

**PREPARED BY:**



**SEPTEMBER 2019**

# Mitigation Monitoring and Reporting Program

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CEQA requires agencies that adopt EIRs to take affirmative steps to determine that approved mitigation measures are implemented after project approval.

As part of CEQA's environmental review procedures, Section 21081.6 requires a public agency to adopt a reporting or monitoring program for assessing and ensuring efficacy of any mitigation measures applied to a proposed project. Specifically, the lead or responsible agency must adopt a reporting or monitoring program for mitigation measures incorporated into a project or imposed as conditions of approval. The program must be designed to ensure compliance during project implementation. As stated in Public Resources Code Section 21081.6 (a) (1):

The public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation. For those changes which have been required or incorporated into the project at the request of a responsible agency or a public agency having jurisdiction by law over natural resources affected by the project, that agency shall, if so requested by the lead agency or a responsible agency, prepare and submit a proposed reporting or monitoring program.

CEQA Section 15097 provides general guidelines for implementing mitigation monitoring and reporting programs (MMRPs). Specific reporting and/or monitoring requirements, which are to be enforced during project implementation, shall be defined prior to final approval of the proposal by the responsible decision maker(s). In response to established CEQA requirements and those of Public Resources Code Section 21000 et seq., the MMRP for the proposed project shall be submitted for adoption by the decision makers prior to completion of the environmental review process. Under each identified resource, the mitigation measure(s) identified in the Draft EIR and the implementation and monitoring requirements are discussed. The implementation and monitoring requirements set forth in this MMRP are as follows:

- Party Responsible for Implementation of Mitigation;
- Implementation Phase;
- Party Responsible for Monitoring Implementation;
- Monitoring Activity
- Monitoring Period;
- Monitoring Frequency; and
- Outside Agency Coordination.

Mitigation is required to address significant or potentially significant impact(s) in the following issue areas:

- Air Quality
- Cultural Resources
- Greenhouse Gas Emissions
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Public Services
- Noise
- Transportation and Traffic and
- Utilities

The table below presents the MMRP for the proposed project.

**Mitigation Monitoring and Reporting Program**

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
<b>Air Quality</b>					
<p><b>MM-AQ-1:</b> To reduce VOC emissions during construction, the County (or its contractors) will use low-VOC coatings that go beyond the requirements of SCAQMD Rule 1113, and have a VOC content of 25 grams per liter (g/L) or less during construction Tier I projects.</p>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure use of low-VOC coatings are specified.</li> <li>2. Periodically inspect construction sites, as necessary, to confirm use of low-VOC coatings.</li> </ol>	<p>None</p>
<p><b>MM-AQ-2:</b> To minimize particulate matter and NOx emissions during construction of Tier I projects, the County (or its contractors) will use off-road equipment that meets or exceeds U.S. Environmental Protection Agency Tier 4 off-road emissions standards for equipment rated at 50 horsepower or greater during construction. Such equipment will shall be outfitted with Best Available Control Technology (BACT) devices including, but not limited to, CARB certified Level 3 Diesel Particulate Filter (DPFs) or equivalent.</p>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Use off road equipment that meets or exceeds U.S. Environmental Protection Agency Tier 4 off-road emissions standards</li> </ol>	<p></p>
<p><b>MM-AQ-3:</b> In the event that construction-period emissions under Tier II exceed regional or localized emissions standards in effect at the time that Tier II project details are known, the County (or its contractors) will implement the following measures to achieve emissions reductions:</p> <ul style="list-style-type: none"> <li>• For exceedances of particulate matter or NOX regional or localized significance thresholds, the County (or its contractors) shall:</li> <li>• Use off-road equipment that meets or exceeds U.S. Environmental Protection Agency Tier 4 off-road emissions standards for equipment rated at 50 horsepower or greater during all</li> </ul>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure use/inclusion of emissions reducing construction equipment and technology.</li> <li>2. Periodically inspect construction sites, as necessary, to confirm use of off-road equipment that meets EPA Tier 4 off-road emissions standards and newer trucks that meet CARB's 2019 engine emission standards.</li> <li>3. Review of SCAQMD's Air Quality Analysis Handbook website when constructing Tier II</li> </ol>	<p>None</p>

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<p>phases of construction;</p> <ul style="list-style-type: none"> <li>• Outfit all off-road equipment with Best Available Control Technology (BACT) devices including, but not be limited to, CARB certified Level 3 Diesel Particulate Filters (DPFs)</li> <li>• Require that construction vendors, contractors, and/or haul truck operators commit to using 2010 model year or newer trucks (e.g., material delivery trucks and soil and aggregate import/export) that meet CARB's 2010 engine emission standards of 0.01 gram per brake horsepower-hour (g/bhp-hr) of PM and 0.20 g/bhp-hr of NOX emissions or newer, cleaner trucks; and</li> <li>• In recognition that the Tier II developments would occur after 2035 and that more effective measures would likely be available at that time to reduce pollution emissions, the County (or its contractors) will implement all other current and feasible mitigation that are readily available for deployment at the time a Tier II project's details are known, which may include, but is not limited to, the use of construction equipment with the latest emission control systems/technologies that would result in emission reductions exceeding those achieved by presently available technologies (e.g., Tier 4 off-road equipment and 2010 model year or newer trucks). Such technologies may include zero-emission or near-zero off-road and on-road equipment that are readily available in the SCAB. To stay abreast of the latest available mitigation, the County</li> </ul>					

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<p>will conduct a review of SCAQMD’s Air Quality Analysis Handbook website on an annual basis to ensure that recommended mitigation measures by the District are considered for each future discretionary project.</p>					
<p><b>MM-AQ-4:</b> Prior to issuance of a grading permit for new individual projects occurring under the Tier II development phase that are one acre or larger, the County will shall conduct an air quality analysis of the localized emissions (NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) associated with the maximum daily grading activities for the proposed development. If the localized air quality analysis shows that emissions would exceed SCAQMD’s air quality CEQA localized thresholds for those emissions, mitigation identified in MM-AQ-3 shall will be implemented and/or the maximum-daily grading activities of the proposed development will shall be limited to the extent feasible</p>	<p>County of Los Angeles, project architect, construction contractor</p>	<p>Pre-construction, construction, and operation</p>	<p>County of Los Angeles</p>	<p>1. Conduct air quality analysis for Tier II individual projects that are one acre or larger</p>	<p>None</p>
<p><b>MM-AQ-5:</b> In the event that operational emissions under Tier II exceed regional or localized emissions standards in effect at the time that Tier II project details are known, the County (or its contractors) will implement the following to achieve emissions reductions upon construction:</p> <ol style="list-style-type: none"> <li>1. Increase energy efficiency by at least 10 percent beyond the Title 24 standard in place at the time of construction, unless demonstrated to be infeasible.</li> <li>2. Utilize low VOC coatings (VOC content less than or equal to 25 grams per liter) for periodic painting and facility upkeep.</li> <li>3. Install solar water heaters.</li> </ol>	<p>County of Los Angeles, project architect, construction contractor</p>	<p>Design, pre-construction, construction, and operation</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check project plans and drawings to confirm inclusion of energy conservation design measures.</li> <li>2. Check construction specifications during preparation of construction bid packages to ensure use/inclusion of low VOC coatings and energy conservation materials and equipment.</li> <li>3. Periodically inspect construction sites, as necessary, to confirm compliance with construction specifications.</li> <li>4. Check new campus facilities to confirm implementation of TDM measures.</li> </ol>	<p>None</p>

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<p>4. Maximize interior day light and utilize high efficiency lighting.</p> <p>5. Increase roof/ceiling insulation beyond the American Society of Heating, Refrigeration and Air Conditioning Engineers Standard 90.1-2010.</p> <p>6. Install weather-based irrigation controllers to reduce outdoor water consumption.</p> <p>7. Implement travel demand reduction measures (TDM) for employees, including, but not necessarily limited to measures such as:</p> <ul style="list-style-type: none"> <li>o Providing bicycle parking for at least five percent of full-time-equivalent campus employees.</li> <li>o Providing preferential carpool spaces within proposed parking structures on the campus.</li> <li>o Provide shuttles for visitors and employees from Metrolink and/or Metro Rail stations to reduce vehicle trips.</li> </ul> <p>8. Incorporate onsite renewable energy production, including installation of photovoltaic cells or other options.</p> <p>9. The County will give preference to vendors that use zero-emission and near-zero emission on-road haul trucks in their vehicle fleet as opposed to diesel-powered trucks.</p>					
<b>Biological Resources</b>					
<p><b>MM-BIO-1:</b> Prior to the commencement of construction activities, a habitat assessment will be done by a qualified bat biologist to identify buildings within the project area that are suitable roosting habitat for bats. The following measures would apply to structures</p>	<p>County of Los Angeles, qualified bat biologist</p>	<p>Pre-construction, May 1-July 30 prior to construction activities</p>	<p>County of Los Angeles, qualified bat biologist</p>	<p>1. Check prior to construction that a qualified biologist is retained to conduct a habitat assessment to identify structures that are suitable for bat roosting.</p> <p>2. Check once prior to construction that</p>	<p>CDFW</p>

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<p>with bat roost potential, as determined by a qualified biologist:</p> <ul style="list-style-type: none"> <li>• To avoid impacts to roosting bats, preconstruction surveys will be conducted prior to work occurring within the vicinity of, or removal of, vacant buildings. A qualified bat biologist will be retained to conduct bat and bat roosting site surveys between May 1 and July 30 prior to commencement of construction activities. This pre-construction survey will be conducted at the non-vacant and vacant buildings determined to be potentially suitable for roosting bats. The survey must occur during maternity season to confirm whether Townsend’s big-eared bat is present in the vacant buildings, the only locations with potential for this species. The survey at the buildings will involve exit counts and acoustic surveys to determine whether a structure supports a nursery or roost and by which species. For the non-vacant buildings, a structure inspection will be performed by a bat biologist to look for bat sign (e.g., guano, wall streaking).</li> <li>• Preconstruction bat surveys will include evening emergence surveys performed at dusk using active full spectrum acoustic monitoring. Work will be performed by qualified biologists who have knowledge of the natural history of the bat species that could occur in the project area and experience conducting surveys and using full spectrum acoustic equipment. During surveys, biologists will avoid unnecessary disturbance of occupied roosts. Evening (i.e., dusk) emergence surveys will consist of at least one biologist stationed</li> </ul>				<p>pre-construction surveys of buildings suitable for roosting bats have been conducted.</p> <ol style="list-style-type: none"> <li>3. If roosting sites or bats are not found, check once to confirm a report confirming their absence has been sent to the CDFW.</li> <li>4. If it is determined that structures in the project area are being used as roost sites, check that a qualified bat biologist has installed exclusion devices and is monitoring the site to confirm no disturbance of roosting structures or trees occurs and no construction work within a 100-foot buffer zone (or an alternative width, as determined in consultation with CDFW) occurs between April 15 and September 15.</li> </ol>	

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<p>on at different vantage points from the structure, watching for emerging bats from a half hour before sunset to 1-2 hours after sunset or until visibility is no longer optimal. Full-spectrum acoustic detectors will be used during emergence surveys to assist in species identification. All emergence surveys will be conducted during favorable weather conditions (i.e., calm nights with temperatures conducive to bat activity [55° F and above] and no precipitation predicted).</p> <ul style="list-style-type: none"> <li>• If roosting sites or bats are not found, a report confirming their absence will be sent to the CDFW, and no further action will be required.</li> <li>• If it is determined that structures in the project area are being used by bats as roost sites, the following protective measures will be implemented: <ul style="list-style-type: none"> <li>• Disturbance of maternity roosting structures or trees (e.g., structure removal, construction equipment operation near roosts, tree trimming or removal) will not occur between April 15 and the following September 15 (the maternity period) to avoid impacts on reproductively active females and active maternity roosts (whether colonial or solitary). The maternity roost will remain undisturbed from the time it is located until the following September 15 or a qualified biologist has determined the roost is no longer active. No construction work will occur at the roost or within a 100-foot-wide buffer zone (or an alternative width, as determined in consultation with</li> </ul> </li> </ul>					

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<p>CDFW) until September 15.</p> <ul style="list-style-type: none"> <li>Exclusion devices may be installed outside of the maternity period (i.e., between September 16 and April 14) to preclude bats from occupying buildings during construction. Exclusionary devices will only be installed by or under the supervision of an experienced bat biologist.</li> <li>A Bat Management Plan (see <b>MM-BIO-2</b>) will be developed if a bat maternity roost, including Townsend’s big-eared bat, is found in the vacant building(s), no construction work within a 250-foot-wide buffer zone (or an alternative width, as determined in consultation with CDFW) will occur between April 1 and September 30.</li> </ul>					
<p><b>MM-BIO-2:</b> A Bat Management Plan will be developed to ensure mortality to bats does not occur. The following items will be included in the plan, at a minimum:                      For each location confirmed to be occupied by bats, the plan will provide details both in text and graphics where exclusion devices will need to be placed, type(s) of exclusion material to be used, the timing for exclusion work, and the timeline and methodology needed to exclude the bats.                      Monitoring activities and schedule will be included, including frequency of monitoring, which structures would need to be monitored, and reporting requirements.                      The plan will be reviewed and approved by CDFW.</p>	<p>County of Los Angeles, qualified bat biologist</p>	<p>Pre-construction</p>	<p>County of Los Angeles, qualified bat biologist</p>	<ol style="list-style-type: none"> <li>Check prior to construction that a qualified biologist is retained to develop a Bat Management Plan (BMP).</li> <li>Check once to confirm the BMP has been submitted and reviewed and approved by CDFW.</li> <li>Check to confirm bat biologist is monitoring roosting sites as well as the installation and implementation of exclusion devices.</li> </ol>	<p>CDFW</p>
<p><b>MM BIO-3:</b> Prior to construction of individual Master Plan projects, a jurisdictional delineation will be conducted within the</p>	<p>County of Los Angeles,</p>	<p>Pre-construction and</p>	<p>County of Los Angeles, qualified</p>	<ol style="list-style-type: none"> <li>Check once to confirm jurisdictional delineation has been conducted for</li> </ol>	<p>Potentially – RWQB, USACE,</p>

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<p>project site for jurisdictional features, including wetlands. If the jurisdictional features are not present, there is no potential for impacts to occur and no further action will be needed. If a jurisdictional feature is found within the project limits, then the following measures would be triggered:</p> <ul style="list-style-type: none"> <li> <b>Full avoidance:</b> This may be possible if the jurisdictional feature is found in portions of the project site that can be avoided. In this instance, Environmental Sensitive Area (ESA) fencing will be placed between the work area and the location of the features. A biologist will be present during the placement of the fencing.                 </li> <li> <b>Impact:</b> If avoidance of jurisdictional features is not feasible, permits/agreements will be obtained from appropriate agencies (i.e., RWQCB, USACE, CDFW) prior to work within the features.                 </li> </ul>	<p>qualified biologist</p>	<p>construction for each individual Master Plan Project</p>	<p>biologist</p>	<p>project site.</p> <ol style="list-style-type: none"> <li>If jurisdictional features are found within the project limits, check periodically to confirm implementation of designated measures and/or necessary permits/agreements are obtained from appropriate agencies.</li> </ol>	<p>CDFW</p>
<p><b>MM-BIO-4:</b> The nesting season for birds will be avoided or preconstruction nesting bird surveys will be conducted if construction activities are carried out during the nesting season. To ensure compliance with the MBTA and similar provisions under Sections 3503, 3503.5, 3505, 3800, and 3801.6 et seq. of the California Fish and Game Code, the County of Los Angeles, through the general contractor, will conduct all vegetation removal during the non-breeding season, between September 1 and February 14, or implement the following: If the removal of vegetation, demolition of buildings, or noise-generating construction activities are scheduled between February 15</p>	<p>County of Los Angeles, construction contractor, qualified biologist</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>Check construction specifications/schedule to confirm whether vegetation removal will occur during non-breeding season.</li> <li>If vegetation removal is scheduled to occur during the breeding season, check to confirm a qualified biologist has been retained and conducts nesting bird surveys.</li> <li>If active nests are detected, check with qualified biologist and inspect construction site to confirm buffer areas are clearly demarcated with stakes and flags.</li> </ol>	

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<p>and August 31, the proponent or construction contractor will retain a qualified biologist experienced with conducting nesting bird surveys who will conduct a nesting bird survey prior to the start of vegetation removal, building demolition, or noise-generating construction activities within any potential nesting habitat (i.e., all vegetation, buildings, etc.). The size of the nesting bird survey area will be determined by a qualified biologist at the time of the survey and include the entire limits of disturbance. It will also include a buffer area if deemed necessary by the biologist. The preconstruction nesting bird survey will be conducted no more than 7 days prior to initiation of vegetation removal, building demolition activities, or noise-generating construction activities. If no active nests are detected during these surveys, no restrictions on project activities will be necessary.</p> <p>If active nests are not found, then no potential for impact to nesting birds (or raptors) will occur and no further action will be needed.</p> <p>If an active nest(s) is observed, then an appropriate buffer (no-construction activity buffer) will be established by the biologist to ensure nest abandonment does not occur due to the construction activities. All no-construction activity buffer areas will be clearly demarcated in the field with stakes and flagging that are visible to construction personnel.</p>					
<p><b>MM-BIO-5:</b> Prior to construction of Master Plan projects that could result in tree removal or pruning, a qualified arborist will inventory native oak trees on the project site in support of an oak tree permit, if required. Oak tree</p>	<p>County of Los Angeles, qualified arborist</p>	<p>Pre-construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. If tree removal is required, check once to confirm qualified arborist has been retained, inventory of native oak trees on the project site has been conducted, and appropriate permits have been obtained.</li> <li>2. Check to ensure qualified arborist is</li> </ol>	<p>Department of Regional Planning</p>

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<p>permit requests require a property owner to file an application with the Department of Regional Planning and provide a filing fee, an oak tree report, site plans for the property, and maps of the surrounding area. The oak tree report will include information about the protection of oak trees that may be adjacent to construction activities that are to remain. The oak tree report will also include the proposed replanting plan, in accordance with the required replacement ratio, for any oak trees that are to be removed.</p>				<p>monitoring construction site as needed to ensure protection of adjacent oak trees. 3. Check as necessary to confirm arborist is implementing oak tree replanting plan in accordance with oak tree permit.</p>	
<p><b>MM-BIO-6:</b> Prior to construction within the eastern portion of the project site that could temporarily affect California sagebrush scrub as identified in Figure 3.3-3 of the Master Plan EIR, a Habitat Mitigation Monitoring Program (HHMP) will be created. The Plan will include, at a minimum, the following requirements: Vegetation monitoring will be performed in the spring-summer, or as specified in the HMMP, within California sagebrush scrub habitat proposed for temporary impact. A list of the native species present will be compiled, and the absolute percent cover of each species will be estimated. This information will set the performance standards and success criteria for the HHMP. The HHMP will provide a map showing the location of each area proposed for impact and the absolute percent cover of each native species within the impact area. Restoration monitoring for five years or until success criteria are met with monitoring every quarter for the first two years and annually thereafter. The monitoring will include annual vegetation sampling beginning after the first year. The</p>	<p>County of Los Angeles, qualified biologist</p>	<p>Pre-construction</p>	<p>County of Los Angeles, qualified biologist</p>	<ol style="list-style-type: none"> <li>1. Check once prior to construction to confirm that a Habitat Mitigation Monitoring Program (HHMP) has been developed.</li> <li>2. Check once to confirm a qualified biologist has been retained to conduct vegetation monitoring as specified in the HHMP.</li> <li>3. Check periodically as necessary to confirm the qualified biologist is conducting monitoring pursuant to the HHMP.</li> </ol>	<p>None</p>

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<p>sampling will occur in the window of March to June, or as specified within the HMMP. The sampling will provide absolute percent cover of native shrubs and forbs/grasses.</p>					
<b>Cultural Resources</b>					
<p><b>MM-CR-1: Train Construction Personnel.</b> Prior to any ground disturbance activities, all construction personnel will be trained regarding the recognition of possible buried cultural and tribal cultural resources during construction ground-disturbing activities. Training will inform all construction personnel of the procedures to be followed upon the discovery of cultural and tribal cultural resources, including Native American burials. Training will also inform all construction personnel that unauthorized resource collection or disturbance may constitute grounds for the issuance of a stop work order and that violators will be subject to prosecution under the appropriate state and federal laws, and violations will be grounds for removal from the project.</p>	<p>County of Los Angeles, qualified archaeologist construction contractor</p>	<p>Pre-construction (ground disturbance)</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check once to confirm the services of a qualified archaeologist has been retained to provide training on cultural resources procedures to construction contractors.</li> <li>2. Check once to confirm contractor training has been provided.</li> </ol>	<p>None</p>
<p><b>MM-CR-2: Cultural Resources Monitoring.</b> Cultural resources monitoring of ground-disturbing activities within undisturbed native soils will be conducted by a qualified archaeologist familiar with the types of cultural and tribal cultural resources that could be encountered within the proposed project area. The monitor will be under the direct supervision of an archaeologist who meets the national standards for archaeology as set by the Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation. Ground-disturbing activities include but are not limited to: auguring, excavation, geotechnical investigations,</p>	<p>Los Angeles County, qualified archaeologist</p>	<p>Pre-construction, construction</p>	<p>Los Angeles County, qualified archaeologist</p>	<ol style="list-style-type: none"> <li>1. Check once prior to construction that a qualified archaeologist has been retained to conduct cultural resources monitoring.</li> <li>2. Check periodically, as necessary, that a qualified archaeologist is monitoring the site during ground disturbance activities pursuant to the mitigation measure requirements.</li> </ol>	<p>None</p>

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<p>vegetation clearing, ground surface leveling, trenching, and conventional mass grading. A single monitor will be assigned to observe two or more simultaneous ground-disturbing activities that occur less than 50 feet away from each other. Additional monitors will be assigned if two or more simultaneous ground-disturbing activities occur more than 50 feet away from each other. Monitors will complete a daily monitoring activity log.</p>					
<p><b>MM-CR-3: Native American Tribal Monitoring.</b> If intact prehistoric cultural resource deposits, as determined by the project archaeologist, and/or tribal cultural resources, in consultation with the Fernandeño Tataviam Band of Mission Indians and the County, are identified during ground-disturbing activities within native soils, Native American tribal monitoring will be conducted by a Native American monitor from the Fernandeño Tataviam Band of Mission Indians. A single tribal monitor will be assigned to observe two or more simultaneous ground-disturbing activities that occur less than 50 feet away from each other. Additional tribal monitors will be assigned if two or more simultaneous ground-disturbing activities occur more than 50 feet away from each other. The tribal monitors will represent the Tribes' interests and will follow the Native American Heritage Commission's Guidelines for Tribal Monitors, which will include completion of a Native American monitoring daily activity log.</p>	<p>Los Angeles County, qualified archaeologist, Native American monitor</p>	<p>Pre-construction, construction</p>	<p>Los Angeles County, qualified archaeologist &amp; Native American monitor</p>	<ol style="list-style-type: none"> <li>1. Check prior to construction that a Native American monitor has been retained to provide monitoring services in the event prehistoric cultural resources are identified during construction.</li> <li>2. Check periodically, as necessary, to confirm that a Native American monitor is monitoring construction activities when prehistoric cultural resources are identified during construction activities. Check periodically as necessary to confirm Native American monitoring daily activity logs are completed pursuant to the mitigation measure.</li> </ol>	<p>Fernandeño Tataviam Band of Mission Indians</p>
<p><b>MM-CR-4: Discovery of Cultural and Tribal Cultural Resources.</b> If cultural resources or tribal cultural resources are encountered during ground-disturbing activities, cultural</p>	<p>County of Los Angeles, qualified archaeologist,</p>	<p>Construction</p>	<p>County of Los Angeles, qualified archaeologist</p>	<ol style="list-style-type: none"> <li>1. Check, as necessary, to confirm that construction activities are diverted pursuant to the mitigation measure and that a qualified archaeologist has</li> </ol>	<p>None</p>

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<p>and tribal monitors are empowered to divert ground-disturbing activities within 50 feet of the discovery until a qualified archaeologist can evaluate whether the resource is a unique archaeological resource or historical resource as defined in Public Resources Code Section 21083.2 and/or 14 C.C.R. Section 15064.5, or, in consultation with the Tribe, a tribal cultural resource as defined in Public Resources Code Section 21074. Work may continue in other areas. Tribal monitors will cooperate with the qualified archaeologist to locate all cultural materials exposed during ground-disturbing activities. All cultural resources recovered will be documented on California Department of Parks and Recreation Series 523 Forms.</p>	<p>Native American monitor, construction contractor</p>		<p>&amp; Native American monitor</p>	<p>been contacted to evaluate cultural resources when they are encountered during ground-disturbing activities, Check, as necessary, to confirm that the qualified archaeologist and tribal monitors have located all cultural materials exposed during ground-disturbing activities and that all recovered cultural resources are documented on California DPR 523 forms.</p>	
<p><b>MM-CR-5: Treatment of Cultural and Tribal Cultural Resources.</b> If the qualified archaeologist determines that the discovery is a historical resource (as defined in MM CR-4) of an archaeological nature, or, in consultation with the Tribe and the County, a tribal cultural resource, then the mitigation standards of 14 C.C.R 15126.4(b) which specifies that</p>	<p>County of Los Angeles, qualified archaeologist, Native American tribe</p>		<p>County of Los Angeles, qualified archaeologist &amp; Native American tribe</p>	<p>1. Check, as necessary during construction, that identified cultural or tribal cultural resources are preserved in place, or if preservation in place is not feasible, that a treatment plan is developed by a qualified archaeologist. Check to confirm that plan is submitted to the County Department of Public Works prior to</p>	<p>Appropriate Native American tribe, South Central Coastal Information Center (SCCIC)</p>

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<p>preservation in place will be the preferred manner of mitigation.</p> <p>If preservation in place is not feasible, a cultural and/or tribal cultural resources treatment plan will be prepared pursuant to 14 C.C.R 15126.4(b) and the Secretary of the Interior’s Standards and Guidelines for Archaeology and Historic Preservation. The treatment plan will include (i) provisions for assessment and treatment of the resources identified; (ii) reporting of results in a timely manner; and (iii) the opportunity for the Tribe to engage in the recovery of material and (iv) to provide comments on the draft report. The Tribe will be afforded the opportunity to review the plan prior to implementation. The plan will be submitted to the Los Angeles County Department of Public Works prior to the treatment of the historical resource, unique archaeological resource, or tribal cultural resource.</p> <p>A preliminary draft monitoring compliance report will be submitted within three months of the end of project construction activity. The report will be prepared by a qualified archaeologist and include documentation and interpretation of resources identified or recovered. Interpretation will include full evaluation of the eligibility of the resources identified for listing on the California Register of Historical Resources (CRHR). All surface and subsurface artifacts and features will be mapped and described in the report. The Tribe will be afforded the opportunity to provide comments for inclusion in the final report. The final report will be filed at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. One copy of the final report will be</p>				<p>treatment of the resource and that the appropriate tribe has been afforded an opportunity to review the plan prior to implementation.</p> <p>2. Check, as necessary, to confirm that a preliminary draft monitoring compliance report has been prepared by a qualified archaeologist pursuant to the mitigation measure requirements and is submitted three months prior to the end of construction. Check to confirm that the tribe has been provided an opportunity to provide comments for inclusion in the report. Check, as necessary, to confirm a copy of the final monitoring compliance report has been submitted to the South Central Coastal Information Center (SCCIC) at California State University, Fullerton and that one copy has been provided to the appropriate tribe.</p>	

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provided to the Tribe.					
<p><b>MM-CR-6: Human Remains.</b> In accordance with California Health and Safety Code Section 7050.5, if human remains are encountered no further disturbance will occur within 50 feet of the find(s) until the Los Angeles County Coroner has made the necessary findings as to origin. Further, pursuant to California Public Resource Code Section 5097.98(b) remains will be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the Los Angeles County Coroner determines the remains to be Native American, the Native American Heritage Commission must be contacted within 24 hours. The Native American Heritage Commission must then identify the most likely descendant(s) (MLD). The MLD will make recommendations concerning the treatment of the remains within 48 hours as provided in Public Resources Code 5097.98. If the County cannot come to an agreement with the MLD, Public Resources Code Section 5097.98(e) requires the County to “reinter the human remains and items associated with Native American human remains with appropriate dignity on the property in a location not subject to further and future subsurface disturbance.”</p>	County of Los Angeles, construction contractor	Pre-construction and during construction	County of Los Angeles	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-CR-10 have been.</li> <li>2. Check, as necessary during construction, to confirm that in the event that human remains are uncovered, construction has been halted in the area of discovery and the area protected per State Health and Safety Code Section 7050.5. Confirm that the County coroner has been notified to determine the origin and disposition of the human remains pursuant to PRC Section 5097.98.</li> <li>3. Check during construction, as necessary, to confirm the NAHC has been notified within 24 hours and all coordination protocol listed under this mitigation measure has been followed, in the event that the coroner determined the remains to be Native American.</li> </ol>	County Coroner, Native American Heritage Commission
<b>Geology/Soils</b>					
<p><b>MM-GEO-C1:</b> All recommendations included in the preliminary Geotechnical Evaluation prepared for the proposed project (see Appendix F.1 of this EIR) will be followed. A detailed subsurface geotechnical evaluation will be performed to address site-specific conditions at the locations of the planned</p>	County of Los Angeles, project architect/designer, construction contractor	Design, Pre-construction, construction	County of Los Angeles	<ol style="list-style-type: none"> <li>1. Check once prior to design that a qualified geotechnical engineer has been retained to perform a detailed subsurface geotechnical evaluation to address site-specific conditions at the locations of the planned improvements and provide detailed recommendations</li> </ol>	None

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<p>improvements and provide detailed recommendations for design and construction.</p> <p>The geotechnical evaluation will include the following measures to mitigate potential fault rupture, seismic ground shaking, ground failure, and liquefaction hazards identified under Impacts <b>GEO-1</b> and <b>GEO-2</b>.</p> <p><i>Fault Rupture:</i> Future geologic investigations to evaluate the location and relative activity of potentially active fault splays at the project site and the feasibility of locating future site improvements will be conducted by geologic consultants prior to design of structure locations. Fault investigations will be conducted by a California State Certified Engineering Geologist and reviewed by the CGS. Appropriate building setback zones will be established in locations deemed not feasible for construction of occupied structures.</p> <p><i>Seismic Ground Shaking:</i> Structural elements of future improvements will be designed to resist or accommodate appropriate site-specific ground motions and conform to the current seismic design standards, including those set forth by the 2013 California Building Code (CBC) and the County of Los Angeles building regulations.</p> <p><i>Ground Failure:</i> Assessment of liquefaction potential at the project site will be evaluated by subsurface geotechnical exploration prior to detailed design and construction of project improvements and will be incorporated into the design, as appropriate. Structural design will be developed to reduce the potential impacts of liquefaction, including the incorporation of techniques such as structural design, in-situ ground modification, or</p>				<p>for design and construction.</p> <ol style="list-style-type: none"> <li>2. Check once during project design to confirm a geotechnical evaluation has been conducted.</li> <li>3. Check design plans to ensure conformance with geotechnical evaluation recommendations.</li> <li>4. Periodically inspect construction sites, as necessary, to confirm compliance with plans.</li> </ol>	

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<p>supporting foundations with piles at depths designed specifically for seismically induced settlement.</p> <p><i>Landslides:</i> A detailed assessment of the landslide and mudflow potential in areas of project improvements will be performed prior to design and construction of improvements and incorporated into the design, as appropriate. Methods for construction in areas with a potential liquefaction hazard may include excavation of potentially unstable material for a more stable slope configuration; reduction of landslide driving forces by removal of earth materials at the top of the landslide; construction of a buttress and/or stabilization fills; construction of retaining walls, installation of rock bolts on the face of the slope, or installation of protective wire mesh on the slope face; the construction of debris impact walls at the toe of the slope to contain rock fall debris; and/or supporting foundations with piles at depths designed specifically for seismically induced settlement. Graded slopes created for future project site developments will also be designed to reduce the potential for landslides or mudflows. The geotechnical evaluation will include the following measures to mitigate unstable soil impacts identified under Impact <b>GEO-3</b>.</p> <p><i>Groundwater:</i> Excavations for foundations in areas with shallow perched groundwater may need to be cased/shored and/or dewatered to maintain stability of the excavations and adjacent improvements and provide access for construction. All recommendations included in the preliminary geotechnical evaluation pertaining to groundwater will be followed. Onsite infiltration of storm water related to Low Impact Development</p>					

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<p>guidelines will be evaluated during the detailed design phase of the project. Further study, including subsurface exploration, will also be performed during the detailed design phase of planned improvements to evaluate the presence of seepage and/or perched groundwater, and to evaluate the potential for stormwater infiltration at the site, and the potential impacts on design and construction of project improvements. Techniques such as casing, shoring, and/or construction dewatering will be incorporated.</p> <p><i>Collapsible Soils/Settlement:</i> Assessment of soil settlement will be performed prior to detailed design and construction or project improvements and techniques will be developed, as appropriate, to reduce impacts related to settlement. Surface reconnaissance and subsurface evaluation will be performed. Site-specific geotechnical evaluations will also be performed to assess the settlement potential of onsite natural soils and undocumented fill, which may include drilling of exploratory borings or test pits and laboratory testing of soils, where appropriate, to evaluate site conditions.</p> <p>Examples of possible mitigation measures for soils with the potential for settlement could include removal of the compressible/collapsible soil layers and replacement with compacted fill, surcharging to induce settlement prior to construction of improvements, allowing for a settlement period after or during construction of new fills, and specialized foundation design, including the use of deep foundation systems to support structures. Various in-situ soil improvement techniques are also available, such as dynamic compaction (heaving</p>					

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<p>tamping) or compaction grouting.                      The geotechnical evaluation will include the following measures to mitigate the expansive and corrosive soils hazards identified under Impact GEO-4.  <i>Expansive Soils:</i> Assessment of the potential for expansive soils will be performed during the design phase of the project through subsurface exploration and mitigation techniques such as over-excavation and replacement with non-expansive soils, soil treatment, moisture management, and/or specific structural design for expansive soil conditions will be developed, as appropriate, to reduce impacts to expansive soils.</p>					
<p><b>MM-GEO-C2:</b> A Storm Water Pollution Prevention Program incorporating BMPs for erosion control will be prepared prior to the start of construction in accordance with governing agencies. Long-term erosion management practices and drainage provisions will also be incorporated into the design and maintenance of the project following development of site improvements. BMPs may include surface drainage measures for erosion due to water, such as the use of erosion prevention mats or geofabrics, silt fencing, sandbags and plastic sheeting, and temporary drainage devices. Positive surface drainage will be accommodated at project construction sites to allow surface runoff to flow away from site improvements or areas susceptible to erosion. Wetting of soil surfaces and/or covering exposed ground areas and soil stockpiles will also be considered during construction operations, as appropriate, to reduce wind-related erosion (see air quality impacts and mitigation measures). Project design will address reducing concentrated</p>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check once prior to construction, that a Storm Water Pollution Prevention Program has been prepared.</li> <li>2. Periodically inspect construction site, as necessary, to ensure that Storm Water Pollution Prevention Program measures are implemented.</li> </ol>	<p>None</p>

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run-off conditions that could cause erosion and affect the stability of the project.					
<p><b>MM-GEO-C3:</b> Due to the moderate paleontological potential of the Pacoima Formation, monitoring will be conducted during all earthmoving activities affecting native sediments of the Pacoima Formation to reduce potential impacts to a less-than-significant level. Excavations will be monitored by a qualified paleontological monitor under the supervision of the qualified paleontologist.</p> <p>Additionally, periodic paleontological spot checks should initially be conducted when excavation exceeds depths of five feet into areas mapped as Quaternary alluvium to determine if older, paleontologically sensitive sediments are present. If present, full time monitoring will be implemented.</p> <p>Monitoring may be reduced if some of the potentially fossiliferous units described herein are, upon exposure and examination by qualified paleontologic personnel, determined to have a low potential for containing fossil resources.</p> <p>The paleontologic monitors will be equipped to salvage fossils as they are unearthed to avoid construction delays and remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The monitor will have authority to temporarily divert grading away from exposed fossils to recover the fossil specimens professionally and efficiently and collect associated data. All efforts to avoid delays in project schedules will be made. To prevent construction delays, paleontological monitors will be equipped with the necessary tools for</p>	<p>County of Los Angeles, qualified paleontologist and paleontologist monitor</p>	<p>During construction</p>	<p>County of Los Angeles, qualified paleontologist</p>	<ol style="list-style-type: none"> <li>1. Check prior to construction that a qualified paleontologist and paleontological monitor have been retained.</li> <li>2. Check periodically, as necessary, to confirm paleontological monitoring of earthmoving activities, and salvaging and processing of any fossils, is conducted in accordance with the requirements of the mitigation measure.</li> <li>3. Once analysis has concluded, check to ensure that a report of findings with an appended itemized inventory of specimens is submitted to County Department of Public Works, along with confirmation of the curation of recovered specimens into an established, accredited museum repository.</li> </ol>	<p>accredited museum</p>

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<p>the rapid removal of fossils and retrieval of associated data. This equipment will include handheld global positioning system receivers, digital cameras, and cell phones as well as a tool kit with specimen containers, matrix sampling bags, field labels, field tools (e.g., awls, hammers, chisels, shovels, etc.), and plaster kits. At each fossil locality, field data forms will be used to record pertinent geologic data, stratigraphic sections will be measured, and appropriate sediment samples will be collected and submitted for analysis. Fossils collected, if any, will be transported to a paleontological laboratory for processing where they will be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility such as LACM.</p> <p>Following analysis, a Report of Findings with an appended itemized inventory of specimens will be prepared, which, when submitted to the County of Los Angeles Department of Public Works, along with confirmation of the curation of recovered specimens into an established, accredited museum repository, will complete the program to mitigate impacts on paleontological resources.</p>					
<b>Greenhouse Gas Emissions</b>					
<p><b>MM-GHG-C1:</b> The County (or its contractors) will implement the following diesel emission-reduction measures during project construction:</p> <ul style="list-style-type: none"> <li>All equipment and delivery truck idling times will be limited by shutting down equipment when not in use and reducing the maximum idling time to less than 3</li> </ul>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles, construction contractor</p>	<ol style="list-style-type: none"> <li>Check construction specifications during preparation of construction bid packages to all measures listed in MM-GHG-C1 are incorporated.</li> <li>Check to ensure that a report by a certified mechanic of the condition of construction and operations vehicles and equipment is submitted to the</li> </ol>	<p>None</p>

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<p>minutes. Clear signage will be installed at all delivery driveways and loading areas regarding the limitation on idling time.</p> <ul style="list-style-type: none"> <li>• All construction equipment will be maintained and properly tuned in accordance with manufacturers' specifications. Prior to the commencement of construction activities using diesel-powered vehicles or equipment, the County's construction contractors will verify that all vehicles and equipment have been checked by a certified mechanic and determined to be running in proper condition prior to admittance into the project site. A report by the certified mechanic of the condition of the construction and operations vehicles and equipment will be submitted to the County prior to their use.</li> <li>• Alternative-fuel (e.g., biodiesel, electric, compressed natural gas) construction vehicles/equipment (comprising at least 15 percent of the fleet) will be used, to the extent feasible.</li> <li>• Renewable diesel fuel will be used for all diesel-powered heavy construction equipment and on-road vehicles to the extent that it is readily available from a local supplier in the Southern California region.</li> <li>• Local building materials (at least 10 percent) and recycled products, including cement and concrete made with recycled products, will be used, to the extent feasible.</li> <li>• A construction waste management plan will be implemented to divert landfilled waste by requiring the recycling of a</li> </ul>				<p>County prior to their use.</p> <ol style="list-style-type: none"> <li>3. Check prior to construction that a Construction Waste Management Plan requiring the recycling of a minimum of 65 percent of all non-hazardous construction waste has been completed by the construction contractor.</li> <li>4. Periodically inspect construction sites, as necessary, to confirm the implementation of diesel emission-reduction measures.</li> </ol>	

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<p>minimum of 65 percent of all non-hazardous construction waste.</p>					
<p><b>MM-GHG-01:</b> The County will implement the following GHG reduction measures for all new development within the campus:</p> <ul style="list-style-type: none"> <li>• The County (or its contractors) will implement the following water conservation measures, which are in addition to those required by codes and ordinances:                             <ul style="list-style-type: none"> <li>○ Install public bathroom faucet aerators (non-residential &amp; residential over 6 stories) with a flow rate of 0.4 gallons per minute (gpm),</li> <li>○ Install cooling tower conductivity controllers or cooling tower pH conductivity controllers,</li> <li>○ Install rotating sprinkler nozzles for landscape irrigation 0.5 to 1.0 gpm,</li> <li>○ Install drip/subsurface irrigation (i.e., micro-irrigation),</li> <li>○ Implement proper hydro-zoning (i.e., groups plants with similar water requirements together),</li> <li>○ Install zoned irrigation,</li> <li>○ Contour landscaping to minimize precipitation runoff,</li> <li>○ Install drought tolerant plants in 50 percent of total new landscaping,</li> <li>○ Install water conserving turf in 100 percent of new turf added to landscaping, and</li> <li>○ Use recycled water for stationary equipment that requires water cooling, to the extent feasible.</li> </ul> </li> <li>• Install a stormwater retention and</li> </ul>	<p>County of Los Angeles, project architect, construction contractor</p>	<p>Design, pre-construction, construction, post construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check project plans to ensure GHG reduction design measures are incorporated.</li> <li>2. Check construction periodically to ensure compliance with design plans.</li> <li>3. Check with medical center management to ensure a recycled water strategy and implementation plan, a food waste diversion program, an onsite recycling program, and other operational measures identified in MM-GHG-01 are developed and implemented.</li> </ol>	<p>None</p>

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<p>filtration system.</p> <ul style="list-style-type: none"> <li>● Pursue a net zero water building design for new campus buildings, to the extent feasible.</li> <li>● Develop a recycled water strategy and implementation plan that increases the campus's use of alternative water sources, such as rainwater, greywater, stormwater, and recycled water.</li> <li>● Achieve a minimum solid waste diversion rate of 85 percent by 2035 by implementing measures including, but not necessarily limited, to:                             <ul style="list-style-type: none"> <li>○ Installing a food waste diversion program at the campus,</li> <li>○ Installing an onsite recycling program at the campus,</li> </ul> </li> <li>● Incentivize the use of recycled materials in new and renovated campus buildings</li> <li>● Prioritize the use of food vendors with certifications for sustainable agricultural practices related to water and energy use, to the extent feasible.</li> <li>● Provide plant-based menu options at new and existing campus food facilities, to the extent feasible.</li> <li>● Pursue zero waste certification requirements for the campus, to the extent feasible.</li> <li>● Install Energy Star-rated appliances.</li> <li>● Install electric-only appliances and HVAC (e.g., no natural gas heating or cooling) systems, to the extent feasible. Where natural gas appliances need to be installed, these appliances will meet high-efficiency standards.</li> <li>● Establish an energy and water use data</li> </ul>					

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<p>collection program to benchmark and report energy and water use at the campus, demonstrating an increase in energy and water efficiency over the lifetime of the project.</p> <ul style="list-style-type: none"> <li>● Implement travel demand reduction measures (TDM) for employees, including, but not necessarily limited to measures such as:                             <ul style="list-style-type: none"> <li>○ Providing bicycle parking for at least 5 percent of full-time-equivalent campus employees.</li> <li>○ Providing preferential carpool spaces within proposed parking structures on the campus.</li> </ul> </li> <li>● Dedicate 5 percent of new parking spaces for clean-air vehicles and equip those spaces with electric vehicle charging equipment.</li> <li>● Purchase new zero-emission passenger vehicles for use by the campus.</li> <li>● Install a high-efficiency lighting system that takes advantage of natural daylighting, augmented by daylighting controls and occupancy sensors that turn off the lights in unoccupied spaces.</li> <li>● Maximize the installation of solar systems on new and renovated buildings to the extent these systems are cost-effective.</li> <li>● Install, in proposed new buildings containing more than 10,000 gsf of space, high-performance glazing with a low solar heat gain coefficient value that reduces the amount of solar heat allowed into the building, without compromising natural illumination.</li> <li>● Install cool roofs with an R value (i.e., the</li> </ul>					

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<p>measurement of the effectiveness of thermal insulating materials) of 30 or better on proposed new buildings, to the extent feasible.</p> <ul style="list-style-type: none"> <li>● Implement a net zero carbon building design for all new building developments and building renovations at the campus, to the extent feasible.</li> <li>● Develop an urban heat island mitigation strategy and implementation plan to guide all future development of the campus.</li> <li>● Increase urban tree canopy cover to provide shade to a minimum of 40 percent of the length of sidewalks on all campus streets.</li> <li>● Use electric powered landscaping equipment, rather than fossil-fuel powered landscaping equipment, to the extent feasible.</li> <li>● Focus selection on native plants and trees to provide new, water-wise landscaping that blends the campus with the ecology of the surrounding natural environment.</li> <li>● Provide ongoing sustainability education and training for campus employees.</li> </ul>					
<b>Hazards and Hazardous Materials</b>					
<p><b>MM-HAZ-1: Encountering Contaminated Soils.</b> If odiferous, stained, or discolored soil is encountered near the fire station, USTs, or spray booth a professional environmental consultant specializing in the identification and handling of hazardous materials will be retained by the County to assess the site. Identification of possible hazardous materials</p>	<p>County of Los Angeles, professional hazardous materials environmental consultant</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles, hazardous materials consultant</p>	<ol style="list-style-type: none"> <li>1. Check to confirm that a hazardous materials consultant has been retained prior to construction in the event contaminated soils are encountered during construction.</li> <li>2. If contaminated soils are encountered, check, as necessary, to confirm the hazardous materials consultant has</li> </ol>	<p>Appropriate oversight agencies</p>

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<p>would typically involve soil samples and laboratory analysis. The suspect soil will be isolated, covered, and avoided by construction personnel until analytical results are reviewed by qualified personnel. Soils identified as hazardous or contaminated will be handled, transported, and treated in accordance with all federal, state, and local existing hazardous materials regulations (as mentioned under Section 3.7.2, <i>Regulatory Setting</i>, of this EIR) and based on the professional environmental consultant's recommendations. Only when the site has been released by the professional environmental consultant and the applicable oversight agencies (such as the Los Angeles County Fire Department's Health Hazardous Materials Division) will construction activities be allowed to continue on the affected site.</p>				<p>assessed the site and contaminated soils are handled, transported, and treated in accordance with the hazardous materials consultant's recommendations.</p> <p>3. Confirm that the site has been released by the hazardous materials consultant prior to allowing construction to continue.</p>	
<p><b>MM-HAZ-2: Engineering Controls and Best Management Practices During Construction.</b> To minimize human exposure to potentially contaminated soils during construction, contractors will employ the use of engineering controls and BMPs. Engineering controls and construction BMPs will include, but are not limited to, the following.</p> <ul style="list-style-type: none"> <li>• Contractor employees working on site handling potentially contaminated media will be certified in the Occupational Health and Safety Administration's 40-hour Hazardous Waste Operations and Emergency Response training.</li> <li>• Contractors will water or mist soil as it is being excavated and stockpiled or loaded onto transportation trucks.</li> <li>• Contractors will place any stockpiled soil</li> </ul>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-Construction, construction</p>	<p>County of Los Angeles, construction contractor</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure inclusion of engineering controls and construction BMPs.</li> <li>2. Periodically inspect construction sites, as necessary, to ensure the use of engineering controls and construction BMP measures as listed in MM-HAZ-2.</li> </ol>	

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<p>in areas shielded from prevailing winds or cover stockpiles with staked and/or anchored sheeting.</p>					
<p><b>MM-HAZ-3: Encountering Asbestos-Containing Materials and Lead Based Paint.</b> In order to minimize exposure, prior to demolition activities, a Hazardous Building Materials Survey (HBMS) and evaluations for asbestos-containing materials and lead-based paint will be conducted in buildings that are to be demolished or renovated. Abatement measures will be implemented in accordance with the recommendations of these evaluations. Asbestos surveys will be conducted in accordance with SCAQMD Rule 1403, which specifies that all surveys are to be carried out by a Cal/OSHA-certified asbestos consultant and will follow established survey protocols, notification, and work practice requirements. Lead-based paint surveys will be carried out by California Department of Public Health(CDPH)-certified inspector/assessor. If necessary, a lead abatement plan would be prepared by the CDPH-certified project monitor or supervisor, and demolition activities would be performed by CDPH-certified workers.</p>	<p>County of Los Angeles, Cal/OSHA-certified asbestos consultant, California Department of Public Health(CDPH)-certified inspector/ assessor</p>	<p>Pre-Construction, construction – prior to demolition activities</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Confirm, prior to building demolition or renovation, that a HBMS for asbestos-containing materials and lead-based paint has been completed.</li> <li>2. Check that a lead abatement plan, if required, has been prepared.</li> <li>3. Check to confirm abatement measures have been completed in accordance with survey and plan recommendations.</li> </ol>	<p>California Department of Public Health(CDPH)</p>
<p><b>MM-HAZ-4: Project-Level Hazardous Materials Sites Assessment Prior to Construction Activities.</b> To avoid exposure of construction workers, the public, or the environment to contaminated media, prior to any ground-disturbing activities, contractors will be required to retain a professional environmental consultant specializing in hazardous materials impact assessment to conduct a project-level analysis to determine if there are existing hazardous materials</p>	<p>County of Los Angeles, professional environmental consultant, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure the specifications require the construction contractor to retain a professional environmental consultant specialized in hazardous materials impact assessment and that all measures as listed in MM-HAZ-4 have been specified.</li> <li>2. Check once to confirm that a hazardous materials assessment has been</li> </ol>	

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<p>conditions in the vicinity of the construction site and potential for existing hazardous materials conditions to affect construction. This assessment will consist of a search for environmental-related information present in publicly accessible databases. The information will be reviewed to determine if the construction footprint or adjacent properties are listed in the databases. If the construction footprint or adjacent properties are listed in the databases, the professional environmental consultant will determine the potential risk to construction workers, the public, or the environment from rehabilitation activities and identify all necessary avoidance, abatement, remediation, cleanup, disposal, monitoring, reporting, notifications, and/or other measures to prevent significant impacts. The contractor will implement all measures as directed by the professional environmental consultant.</p>				<p>conducted prior to ground-disturbing activities.</p> <p>3. Inspect the project site, as necessary, to confirm all necessary measures, as determined by the environmental consultant, to prevent exposure of workers or public to hazardous materials have been implemented.</p>	
<b>Hydrology and Water Quality</b>					
<p><b>MM-HYD-C1:</b> Where groundwater seepage could occur, permanent monitoring wells will be installed during construction within and around the perimeter of each building to monitor the groundwater level and evaluate the performance of the dewatering system. Before starting dewatering operations, a baseline conditions survey will be made of all adjacent foundations and structures to assess the impact of deep excavation dewatering on adjacent structures. All signs of existing distress will be recorded.</p>	<p>County of Los Angeles, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-HYD-C1 have been specified.</li> <li>2. Periodically inspect construction sites, as necessary, to confirm permanent monitoring wells have been installed and that a baseline conditions survey has been performed of all adjacent foundations and structures to assess the impact of deep excavation dewatering on adjacent structures.</li> <li>3. Check construction, periodically as necessary, to confirm that all signs of existing distress have been recorded.</li> </ol>	<p>None</p>

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<p><b>MM-HYD-O1:</b> Irrigation water demands above existing irrigation demands will be met by alternative supply sources to the maximum extent technically and financially feasible. The use of alternative water supply sources for irrigation will be maximized to reduce the use of potable water for irrigation and approximate existing irrigation demands. Alternative water supply sources include, but are not limited to, gray water and harvested rainwater (stormwater).</p>	<p>County of Los Angeles, project architect and engineer</p>	<p>Design, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check final design specifications during preparation of final design bid packages to ensure all measures listed as part of MM-HYD-1 have been specified to be implemented, as practicable.</li> <li>2. Check project plans to confirm alternative water sources have been identified.</li> <li>3. Check construction to confirm compliance with plans.</li> </ol>	<p>None</p>
<p><b>MM-HYD-O2:</b> An O&amp;M Plan will be developed for LID features at the site during the design of the initial development projects and expanded as development progresses and different LID features are added. The plan will consider impacts on water quality and address issues related to Integrated Pest Management (IPM) or organic maintenance practices, including those for hand weeding.</p>	<p>County of Los Angeles</p>	<p>Design, operation</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check once to confirm that an O&amp;M plan is developed during project design.</li> <li>2. Check to confirm the measures in the O&amp;M plan, including those identified in MM-HYD-03, are implemented once projects are operational.</li> </ol>	<p>None</p>
<p><b>MM-HYD-O3:</b> For any proposed LID features located within an area of potential liquefaction, structural design modifications should be included to mitigate the potential impacts of liquefaction on the performance and operation of the LID features and to maintain the water quality performance as originally design. The O&amp;M Plan should include provision for inspection, repair, maintenance, and/or reconstruction after liquefaction events for any LID features located within an area of potential liquefaction.</p>	<p>County of Los Angeles, project architect and engineer, construction contractor</p>	<p>Pre-construction, construction</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check project plans to ensure appropriate design modifications are included to mitigate any potential liquefaction impacts on LID features.</li> <li>2. Check construction specifications during preparation of construction bid packages to ensure all measures as listed in MM-HYD-3 have been specified and structural design modifications are included.</li> <li>3. Check construction site, periodically as necessary, to ensure compliance with plans.</li> </ol>	<p>None</p>
<p><b>Noise</b></p>					
<p><b>MM-NOI-C1: Reduce Construction Noise to the Extent Possible.</b> The County will implement the following noise reduction</p>	<p>County of Los Angeles, construction</p>	<p>Pre-construction and</p>	<p>County of Los Angeles</p>	<ol style="list-style-type: none"> <li>1. Check construction specifications during preparation of construction bid packages to ensure all measures listed</li> </ol>	<p>None</p>

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
<p>measures during construction:</p> <ul style="list-style-type: none"> <li>• Construction activities will be limited to between the hours of 7:00 a.m. to 7:00 p.m. on Monday through Friday or 8 a.m. to 6 p.m. on Saturdays, and will not occur at any time on Sundays or legal holidays. Construction personnel will not be permitted on the job site, and material or equipment deliveries and collections will not be permitted outside of these hours.</li> <li>• To the fullest extent practicable, the quietest available type of construction equipment will be used. Newer equipment is generally quieter than older equipment. The use of electric powered equipment typically is quieter than diesel or gasoline powered equipment, and hydraulic powered equipment typically is quieter than pneumatic power.</li> <li>• Where possible, impact pile driving will be replaced with other piling techniques, such as vibratory pile driving, or vibration-and percussive-free methods (examples include hydraulic press-in piles or cast-in-drilled-hole piles).</li> <li>• All mobile and fixed noise-producing equipment used on the proposed project that is regulated for noise output by a local, state, or federal agency will comply with such regulation while in the course of project activity.</li> <li>• All construction equipment will be properly maintained. Poor maintenance of equipment can cause excessive noise levels.</li> <li>• All construction equipment, stationary and mobile, will be equipped with properly operating and maintained</li> </ul>	<p>contractor</p>	<p>Construction</p>		<p>as part of MM-NOI-C1 have been specified.</p> <p>2. Periodically inspect construction sites, as necessary, to confirm compliance with construction hours, equipment maintenance, and noise-producing construction activity mitigation measures.</p>	

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<p>mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features that meet or exceed original factory specification. Mobile or fixed “package” equipment (e.g., arc welders, air compressors) will be equipped with shrouds and noise control features that are readily available for that type of equipment.</p> <ul style="list-style-type: none"> <li>• All noisy equipment will be operated only when necessary, and will be switched off when not in use.</li> <li>• The use of noise-producing signals, including horns, whistles, alarms, and bells, will be for safety warning purposes only. To the extent practicable, temporary barriers will be employed around the project site and/or around noisy construction equipment. For barriers to be effective they will break the line-of site between the equipment and any noise-sensitive receiver. These barriers may be constructed as follows: <ul style="list-style-type: none"> <li>• From commercially-available acoustical panels lined with sound absorbing material (the sound absorptive faces of the panels will face the construction equipment).</li> <li>• From common construction materials such as plywood and lined with sound absorptive material (the sound absorptive material will face the construction equipment).</li> <li>• From acoustical blankets hung over or from a supporting frame. The blankets will provide a minimum sound transmission class (STC) rating of 28</li> </ul> </li> </ul>					

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<p>and a minimum noise reduction coefficient (NRC) of 0.80 and will be firmly secured to the framework with the sound absorptive side of the blankets oriented toward the construction equipment. The blankets will be overlapped by at least 6" at seams and taped so that no gaps exist. The largest blankets available will be used in order to minimize the number of seams. The blankets will be draped to the ground to eliminate any gaps at the base of the barrier.</p> <ul style="list-style-type: none"> <li>• Construction contractors will ensure that construction employees are trained in the proper operation and use of the equipment.</li> <li>• Storage, staging, parking, and maintenance areas will be located away from sensitive receptors. Where this is not possible, the storage of waste materials, earth, and other supplies will be positioned in a manner that will function as a noise barrier to the closest sensitive receivers.</li> <li>• Stationary noise sources such as generators and compressors will be positioned as far away as possible from noise-sensitive areas.</li> <li>• Construction equipment will be stored on the project site while in use. This will eliminate noise associated with repeated transportation of the equipment to and from the site.</li> <li>• To the extent possible haul roads should not be designated through noise-sensitive areas.</li> </ul>					
<b>MM-NOI-C2: Reduce Construction-</b>	County of	Pre-	County of Los	1. Check construction specifications	None

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<p><b>Generated Groundborne Vibration to the Extent Possible.</b> The County will implement the following vibration reduction measures during construction:</p> <ul style="list-style-type: none"> <li>Where possible, impact pile driving will be replaced with other piling techniques, such as vibratory pile driving or, preferably, vibration-and percussive-free methods (examples include hydraulic press-in piles or cast-in-drilled-hole piles).</li> <li>To the extent possible, heavy construction equipment will not be operated within 140 feet of onsite or offsite sensitive receptors.</li> </ul>	<p>Los Angeles, construction contractor</p>	<p>construction and construction</p>	<p>Angeles</p>	<p>during preparation of construction bid packages to confirm limits on pile driving and operation of heavy construction equipment near sensitive receptors, as described in this mitigation measure, have been specified.</p> <p>2. Periodically inspect construction sites, as necessary, to confirm compliance with measures limiting the use of pile driving and operation of heavy construction equipment within 140 feet of on-site or off-site sensitive receptors, to the extent practicable.</p>	
<p><b>MM-NOI-01: Design Project Facilities to Ensure All Mechanical Equipment Complies with Chapter XI of the city of Los Angeles Municipal Code.</b> During the architectural and engineering design phase of each new facility (building, central plant, etc.) that would introduce new mechanical equipment to the project site, and prior to the issuance of any building permits for the facility, the County will retain an acoustical consultant to evaluate the design and provide recommendations, as necessary, to ensure that the mechanical equipment complies with Chapter XI of the city of Los Angeles Municipal Code. Such recommendations may include, but are not limited to: changes in equipment locations, upgrades to central plant buildings, rooftop parapet walls, acoustical louvers or screens, or intake and exhaust silencers.</p>	<p>County of Los Angeles, acoustical consultant</p>	<p>Design, construction</p>	<p>County of Los Angeles, acoustical consultant</p>	<p>1. Confirm that an acoustical consultant has been retained.</p> <p>2. Confirm that the acoustical consultant has reviewed equipment specifications for new sound producing mechanical equipment at proposed new facilities for compliance with Chapter XI of the City of Los Angeles Municipal Code.</p> <p>3. Check plans and construction, as necessary, to ensure mechanical equipment that complies with Chapter XI of the City of Los Angeles Municipal Code has been installed.</p>	<p>None</p>
<p><b>Public Services</b></p>					
<p><b>MM-PS-1:</b> The Los Angeles County project manager and construction contractor will regularly notify and coordinate with the</p>	<p>County of Los Angeles, construction</p>	<p>Pre-construction,</p>	<p>County of Los Angeles</p>	<p>1. Check construction specifications during preparation of construction bid packages to confirm notification and</p>	<p>City of Los Angeles Fire Department,</p>

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
LAFD, LASD and LAPD on project construction design, activities, and scheduling, including any on and off campus street or lane closures related to the proposed developments before construction begins.	contractor	construction		coordination requirements with public safety providers, as described in this mitigation measure, have been specified. 2. Check periodically during construction, to ensure coordination and proper notification is given to emergency services providers.	City of Los Angeles Police Department, Los Angeles County Sheriff's Department
<b>MM-PS-2:</b> The Los Angeles County project manager and construction contractor will continue to coordinate with LASD on project design and development under the Master Plan, to ensure LASD is able to plan and staff adequate resources to continue to serve the campus for police protection services.	County of Los Angeles, construction contractor	Design, construction	County of Los Angeles	1. Check periodically, as necessary, to confirm coordination and consultation occurs with LASD during project design. 2. Check to ensure construction bid documents include language detailing the necessity to include coordination with LASD during design and development stages of the project. 3. Check periodically, as necessary, to confirm coordination and consultation occurs with LASD during project construction.	Los Angeles County Sheriff's Department
<b>Transportation/Traffic</b>					
<b>MM-TRAF-1:</b> The County will develop and implement traffic control measures for Master Plan projects that would result in lane or sidewalk closures, removal of parking, or similar traffic disruptions. Temporary traffic control during construction will meet the requirements of the <i>California Manual on Traffic Control Devices (CA-MUTCD)</i> . Daytime closures will be covered by the applications shown in Chapter 6 of the manual. Overnight closures, long-term closures, and detours will require a Traffic Control Plan, which will be prepared as part of the project design package according to CA-MUTCD requirements. The Traffic Control Plan may include, but is not limited to, the elements listed below. Note	County of Los Angeles, construction contractor	Pre-construction, construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-TRAF-1 are specified. 2. Check to confirm a Traffic Control Plan has been developed if overnight or long-term closures or detours are required. 3. Periodically inspect construction sites, as necessary, to confirm project traffic control measures have been implemented, as practicable.	Los Angeles Department of Transportation, City of Los Angeles Fire Department, City of Los Angeles Police Department, Los Angeles County Sheriff's Department

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<p>that some of these elements may not be feasible or appropriate in all circumstances. The project-level environmental analysis will identify the appropriate measures for each project as applicable.</p> <ul style="list-style-type: none"> <li>• Provide a roadway layout that shows the locations of construction activity and surrounding roadways to be used as detour routes, including special signage.</li> <li>• Establish detour routes in coordination with the city of Los Angeles to minimize disturbances to local traffic conditions; review potential detour routes to make sure adequate capacity is available.</li> <li>• Avoid creating additional delay at intersections that are currently operating under congested conditions either by choosing routes that avoid these locations or constructing during non-peak times of day.</li> <li>• Maintain access to existing residences at all times.</li> <li>• Work with LASD, LAFD, and LAPD to coordinate all construction-related plans and minimize disturbances to local EMS providers; ensure that alternative evacuation and emergency routes are designed to maintain response times during construction.</li> <li>• Provide adequate off-street parking areas at designated staging areas for construction-related vehicles.</li> <li>• Work with local and regional transit providers to maintain access and circulation routes to existing stops and stations during construction phases and identify appropriate detours to provide traffic rerouting during construction</li> </ul>					

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while minimizing disturbance to bus services. <ul style="list-style-type: none"> <li>Work with the city of Los Angeles to maintain continuity and operation of existing pedestrian and bicycle facilities during construction.</li> </ul>					
<b>Utilities and Service Systems</b>					
<b>MM-UTL-1:</b> Prior to issuance of a building permit for any future development project under the Master Plan that could result in an increase in wastewater generation, the County will coordinate with the city of Los Angeles Bureau of Sanitation to conduct further detailed gauging and evaluation to identify a specific sewer connection point with sufficient capacity. If the public sewer has insufficient capacity, then the County will be required to build a sewer line to a point in the sewer system with sufficient capacity.	County of Los Angeles	Prior to issuance of building permits	County of Los Angeles	<ol style="list-style-type: none"> <li>Check once prior to issuance of any building permits to confirm that the Los Angeles Bureau of Sanitation has conducted further detailed gauging and evaluation and has identified a sewer connection point with sufficient wastewater capacity for proposed development under the campus Master Plan.</li> <li>Check once prior to issuance of building permits to confirm, that in the event that the public sewer has insufficient capacity, a sewer line is built to a point in the sewer system with sufficient capacity.</li> </ol>	City of Los Angeles Bureau of Sanitation
<b>MM-UTL-2:</b> In conjunction with preparation of a subsequent CEQA environmental document for any future individual development project under the Master Plan that is proposed in the year 2040 or beyond that is defined as a “water-demand project” in Section 15155 of the CEQA Guidelines, the County will request, pursuant to Section 15155, that the water provider determine whether the projected water demand associated with the project was included in the most recently adopted urban water management plan. If required pursuant to Section 15155 and SB 610, the County will request that LADWP prepare a water assessment for the proposed project. The	County of Los Angeles	Environmental project approval and pre-construction	County of Los Angeles	<ol style="list-style-type: none"> <li>Check to confirm that a water supply assessment has been prepared, if required, prior to proceeding with individual development projects that are proposed in year 2040 and beyond.</li> <li>Check construction specifications during preparation of construction bid packages to confirm any required water conservation design measures, as identified in the water supply assessment, are specified.</li> <li>Check project plans to ensure water conservation measures identified in the water supply assessment and construction specifications have been</li> </ol>	Los Angeles Department of Water and Power

<b>Mitigation Measure</b>	<b>Party Responsible for Implementation</b>	<b>Phase</b>	<b>Party Responsible for Monitoring</b>	<b>Monitoring Activity/Period/Frequency</b>	<b>Outside Agency Coordination</b>
County will determine, pursuant to Section 15155, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses.				incorporated. 4. Periodically inspect construction sites to confirm water conservation measures are being constructed in accordance with plans.	