**Supplemental Mitigation Monitoring and Reporting Program**
**California State University, Long Beach**

**Housing Expansion Phase 1 – Housing Administration and Commons Building Project**
**Campus Master Plan Update**
**State Clearinghouse No. 2007061092**

## Section 1: Authority

This Supplemental Mitigation Monitoring and Reporting Program (Supplemental MMRP) has been prepared pursuant to the California Environmental Quality Act (CEQA) and the State CEQA Guidelines to provide for monitoring of the mitigation measures required by certification of the Housing Expansion Phase 1 – Housing Administration and Commons Building Project (project) Final Supplemental Environmental Impact Report (EIR). Section 21081.6 of the California Public Resources Code and Section 15091(d) of the CEQA Guidelines require a lead agency to adopt an environmental MMRP when approving a project that adopts findings of significant impacts and incorporates mitigation measures into the project or imposed as conditions of project approval in order to mitigate or avoid significant impacts. The purpose of a MMRP is to ensure that when an EIR identifies measures to reduce potential adverse environmental impacts, those measures are implemented as detailed in the environmental document. A Supplemental EIR has been prepared by the California State University (CSU), Long Beach (CSULB) for the project. The project was originally included in the Campus Master Plan Update EIR, certified by the CSU Board of Trustees in May 2008 (2008 EIR).

This Supplemental MMRP gives the CSU primary responsibility for taking all actions necessary to implement the mitigation measures according to the specifications provided for each measure and for demonstrating that the action has been successfully completed. This report will be kept on file in the office of Physical Planning and Facilities Management at CSULB, 1331 Palo Verde Avenue, Long Beach, CA 90815.

## Section 2: Monitoring Schedule

The Trustees of the CSU and CSULB will be responsible for ensuring compliance with mitigation monitoring required for implementation of the Housing Expansion Phase 1 – Housing Administration and Commons Building Project. Once construction of the facilities has begun and is underway, monitoring of the mitigation measures associated with construction will be carried out by CSULB and/or the contractor(s) implementing the mitigation. Once construction of the facilities has been completed, CSULB will monitor as deemed necessary.

## Section 3: Changes to Mitigation Measures

In May 2008, the CSU Board of Trustees certified the EIR for the CSULB Campus Master Plan Update (2008 EIR) and adopted a Mitigation Monitoring Program for the approved project (2008 MMP). Since then, a Supplemental EIR has been adopted for implementation of the Housing Expansion Phase 1 – Housing Administration and Commons Building Project. This Supplemental MMRP is required to ensure that the new and revised mitigation measures to reduce potential adverse environmental impacts identified in the Supplemental EIR are

implemented. This Supplemental MMRP is intended to supplement the programmatic measures in the 2008 MMP and includes all applicable mitigation measures from the 2008 MMP, as well as any new, revised, and/or renumbered mitigation measures applicable to the Housing Expansion Phase 1 – Housing Administration and Commons Building Project.

## Section 4: Supporting Documentation

Findings and related documentation supporting the findings involving modifications to mitigation measures will be maintained in the Housing Expansion Phase 1 – Housing Administration and Commons Building Project file with the Supplemental MMRP and will be made available to the public upon a written public records request.

## Section 5: Mitigation Monitoring Matrix

The Supplemental MMRP is organized in a matrix format and identifies the required mitigation measures and the time frame for monitoring. The mitigation measures are presented by environmental issue area. The first column identifies the mitigation measure. The second column, entitled "Time Frame/Monitoring Milestone," refers to the timing for implementing mitigation measures and when monitoring would occur. The third column, entitled "Implementing Party," refers to the party that will conduct the monitoring to ensure compliance with the mitigation measure CSULB and/or the contractor(s) working on the project will be responsible for monitoring the mitigation measures. The fourth column, entitled "Enforcement Agency," refers to the agency responsible for ensuring that the mitigation measure is implemented. The fifth column, entitled "Verified Date/Initial", is provided so that once implementation of the measure is complete, the responsible party will verify its implementation.

| Mitigation Measures | Monitoring Phase or Milestone | Implementing Party | Enforcement Agency | Verified Date/Initial |
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| ***Cultural Resources*** | | | | |
| CR-1. All earth moving construction activity will be monitored by a professional archaeologist and Native American monitor. The archaeological monitor will conduct on-site cultural resources sensitivity training (crew education) as outlined below. If subsurface cultural materials are uncovered, construction work in the immediate vicinity will be halted and the emergency discovery procedures described below will be implemented. | During earth moving construction activity | Qualified Archaeologist; Native American Monitor | CSULB | |
| CR-2. Prior to the beginning of the earth moving construction activities (including initial grading of vegetation removal), the construction crew will be informed of the cultural resources values involved and of the regulatory protections afforded those resources. The crew will also be informed of procedures relating to the discovery of unanticipated cultural resources (as outlined below). The crew will be cautioned not to collect artifacts, and asked to inform a construction supervisor and the onsite archaeological monitor in the event that cultural remains are discovered during the course of construction. The onsite archaeological and Native American monitor will administer supplement briefing to all new construction personnel, prior to their commencement of earth moving construction activities. | Prior to beginning earth moving construction activity | Qualified Archaeologist; Native American Monitor | CSULB | |
| CR-3. In the event archaeological resources are unearthed during excavation activities associated with the project, work will be stopped immediately, and the discovery will be evaluated by a qualified archeologist, pursuant to the procedures set forth at CEQA Guidelines Section 15064.5. | During earth moving construction activity | Qualified Archaeologist | CSULB | |

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| CR-4. In an event that a previously unknown archaeological resource is discovered and disturbance to such a resource cannot be avoided, a Phase-III, or "data recovery," phase of investigation will be required, pursuant to CEQA Guidelines Sect. 15064.5. The Phase-III study will generally consist of a limited scale program of archaeological excavation, radio-carbon dating of organic materials-such as shell midden and faunal remains, laboratory analysis, and report writing designed to assess the importance of the resource in question. Any resources recovered will be properly curated, as appropriate. The Phase III or data recovery plan shall be prepared in consultation with SHPO. | During earth moving construction activity | Qualified Archaeologist | CSULB | |
| CR-5. If human skeletal remains are found at the project site during earth moving activities such as grading or trenching, work will be suspended and the Los Angeles County Coroner's Office will be notified. Standard guidelines set by California law provides for the treatment of skeletal material of Native American origin (California Public Resources Code, Sections 5097.98 et seq.; Health and Safety Code, Section 7050.5 and others). Procedures to be employed in the treatment of human remains are found in, "A professional Guide for the Preservation and Protection of Native American Remains and Associated Grave Goods," published by the California Native American Heritage Commission. | During earth moving construction activity | Qualified Archaeologist | CSULB | |

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| CR-6. Prior to project commencement and the demolition of any buildings or site features within the eligible historic district, CSULB shall ensure that documentation of the property is completed in the form of a documentation that shall comply with the Secretary of the Interior's *Standards for Architectural and Engineering Documentation* (NPS 1990). The documentation shall generally follow the HABS Level III requirements and include digital photographic recordation of the Hillside College Residence Hall Complex, a detailed historic narrative report, and compilation of historic research. As part of this process, the as-built plans and associated documents that remain on the property shall be scanned digitally and incorporated into the final documentation package.<br><br>Photographic documentation shall include:<br>• General views of the site and landscape as a whole<br>• Photographs of each exterior elevation of all eight buildings in the complex<br>• Photographs of the interior of the building to be demolished (existing Hillside Office/Commons)<br><br>The documentation shall be completed by a qualified architectural historian or historian who meets the Secretary of the Interior's Professional Qualification Standards for History and/or Architectural History (NPS 1983). The original archival-quality documentation shall be offered as donated material to the following entities: Library of Congress, South Central Coastal Information Center at CSU Fullerton, CSULB Special Collections and University Archives, University of California, Santa Barbara Special Collections, Long Beach Heritage, and the Los Angeles Conservancy. Completion of this mitigation measure shall be monitored and enforced by the lead agency. | Prior to project commencement and the demolition of any buildings or site features within the eligible Hillside College Residence Hall Complex Historic District | Qualified Architectural Historian or Historian | CSULB | |

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| CR-7. CSULB shall prepare and implement an interpretive program for the Hillside College Historic District. The interpretive program shall focus on the historic district's architectural and developmental legacy, and shall feature interpretative/commemorative materials:<br>• On-site display of historic photographs, historic architectural plans and drawings, historic narrative, and other interpretive materials as available and deemed appropriate. These materials will be installed in a publicly-accessible space in the new HRL office or commons building.<br>• Online display of historic photographs, historic architectural plans and drawings, historic narrative, and other interpretive materials as available and deemed appropriate. These materials will be publicly accessible on the CSULB website, on an existing page dedicated to the history of the University.<br>• Incorporation of commemorative materials and historical information into regular on-campus orientation and tours for educational purposes.<br>Completion of this mitigation measure shall be overseen by a qualified architectural historian or historian who meets the Secretary of the Interior's Professional Qualification Standards for History and/or Architectural History (NPS 1983), and monitored and enforcement by the lead agency. | One time post-construction | Qualified Architectural Historian or Historian | CSULB | |

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| CR-8. A project-specific cultural resources monitoring and discovery plan (CRMDP) shall be prepared, which shall specify monitoring methods, personnel, and procedures to be followed in the event of a discovery. The monitoring plan shall identify what activities require monitoring, describe monitoring procedures, and outline the protocol to be followed in the event of a find. Criteria shall be outlined, and triggers identified when further consultation is required for the treatment of a find. Key staff shall be identified, and the process of notification and consultation shall be specified within the CRMDP. A curation plan shall also be outlined within the CRMDP. All work shall be conducted under the direction of a qualified archaeological Principal Investigator who meets the Secretary of the Interior's standards for archaeology. | Prior to beginning earth moving construction activity | Qualified Archaeologist | CSULB | |
| CR-9. Archaeological monitoring shall be conducted by a qualified archaeological monitor who is working under the guidance of an archaeologist who meets the SOI Professional Qualification Standards for Archaeology (48 Federal Register 44738). Native American monitoring shall be conducted by a qualified Native American monitor representing the tribe or tribes traditionally and culturally affiliated with the geographic area of the proposed project. It is recommended that the tribal cultural monitor maintain logs of all activities monitored, and that this documentation be made available to all consulting Native American parties. Ground-disturbing activities include, but are not limited to, geotechnical boring, boring, trenching, grading, excavating, and the demolition of building foundations. The archaeological monitor shall observe ground-disturbing activities in all areas with potential to contain significant cultural deposits. If discoveries are made during ground disturbing activities, additional work may be required in accordance with the terms specified in the CRMDP. | During ground-disturbing activities, including, but not limited to, geotechnical boring, boring, trenching, grading, excavating, and the demolition of building foundations | Qualified Archaeologist; Native American Monitor | CSULB | |

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| CR-10. After demolition of the existing facilities and prior to construction of the proposed facilities, a limited geoarchaeological trenching program shall be prepared and implemented in order to verify the stratigraphy conclusions of the Extended Phase I study (that the project area is situated on an uplifted Pleistocene marine landform with substantial soil development at the surface; this landform is capped with imported fill and disturbed/redeposited native sediments of variable depths, but generally between 30 and 100 cm deep; this disturbed fill includes shell and a small quantity of out-of-context historic and prehistoric artifacts). If intact archaeological deposits are encountered during the geoarchaeological testing, additional work may be required in accordance with the terms specified in the CRMDP. | After demolition of the Hillside Office/Commons building and prior to construction of the two new buildings | Qualified Geoarchaeologist | CSULB | |
| ***Tribal Cultural Resources*** | | | | |
| TCR-1. In order to identify and treat tribal cultural resources inadvertently uncovered during the course of construction-related excavations, a project-specific CRMDP shall be developed. The monitoring plan will identify what activities require archaeological and Native American monitoring, describe monitoring procedures, and outline the protocol to be followed in the event of a find. Criteria thresholds will be outlined, and triggers identified for when further consultation is required for the treatment of a find. Key staff and tribal contacts will be identified, and the process of notification and consultation will be specified within the CRMDP. A plan for the final disposition of artifacts will also be outlined within the CRMDP. | Prior to beginning earth moving construction activity | Qualified Archaeologist | CSULB | |
| ***Air Quality*** | | | | |
| 1. Exposed surfaces are watered as needed. | During construction of project | Contractor | CSULB | |
| 2. Soils stabilizers are applied to disturbed inactive areas as needed. | During construction of project | Contractor | CSULB | |
| 3. Ground cover is replaced quickly in inactive areas. | During construction of project | Contractor | CSULB | |

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| 4. All stockpiles are covered with tarps or plastic sheeting. | During construction of project | Contractor | CSULB | |
| 5. All unpaved haul roads are watered daily and all access points used by haul trucks are kept clean during the site grading. | During construction of project | Contractor | CSULB | |
| 6. Speed on unpaved roads is reduced to below 15 miles per hour. | During construction of project | Contractor | CSULB | |
| 7. Trucks carrying contents subject to airborne dispersal are covered. | During construction of project | Contractor | CSULB | |
| 8. Grading and other high-dust activities cease during high wind conditions (wind speeds exceeding a sustained rate of 25 miles an hour). | During construction of project | Contractor | CSULB | |
| 9. Diesel particulate filters are installed on diesel equipment and trucks. | During construction of project | Contractor | CSULB | |
| 10. All construction equipment will be properly tuned. | During construction of project | Contractor | CSULB | |
| 11. To reduce emissions from idling, the contractor shall ensure that all equipment and vehicles not in use for more than 5 minutes are turned off, whenever feasible. | During construction of project | Contractor | CSULB | |
| 12. Low VOC-content paint, stucco, or other architectural coatings materials will be utilized to the extent possible. | During construction of project | Construction Manager; Contractor | CSULB | |
| 13. Low VOC-content asphalt and concrete will be utilized to the extent possible. | During construction of project | Construction Manager; Contractor | CSULB | |
| 14. The University will continue to comply with SCAQMD Rule 1403 (Asbestos Emissions from Renovation/Demolition Activities) and other pertinent regulations when working on structures containing asbestos, lead, or other toxic materials. | During construction of project | Construction Manager; Contractor | CSULB | |
| 15. As appropriate, outdoor activities at the campus will be limited during high-dust and other heavy construction activities, including painting. | During construction of project | Construction Manager; Contractor | CSULB | |

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| 16. If construction activities occur adjacent to classrooms, student dormitories, health facilities and other sensitive receptors the University will either:<br>i. Make findings and notify each sensitive receptor that construction activity will not affect such receptor, or<br>ii. Install and maintain filters on interior ventilation system to reduce intake of pollutants until construction activity ceases. | During construction of project adjacent to classrooms, dormitories, health facilities, or other sensitive receptors | Construction Manager; Contractor | CSULB | |
| 17. The University will exceed Title 24 energy saving requirements on campus by 10% or more on all new or renovation projects by applying a range of techniques and measures that may include planting trees to provide shade and shadow to buildings; use of energy-efficient lighting in buildings and parking lots; use of light-colored roofing materials; installing energy-efficient appliances; installing automatic lighting on/off controls; use of insulation and double-paned glass windows; connecting buildings to central air and water heating and cooling systems, and/or other measures. | During design and implementation of project | Program Manager | CSULB | |
| ***Geology and Soils*** | | | | |
| 1. Paleontological resources have not been identified on the CSULB campus; however, if fossilized shells, plants or bones are discovered during construction of an individual project, work will be suspended in the immediate vicinity of the finds, and the potential significance of the resources will be evaluated by a qualified specialist. | During construction of project | Qualified Paleontologist | CSULB | |
| ***Hydrology and Water Quality*** | | | | |
| 1. The use of reclaimed water for irrigation will continue to be expanded to the extent feasible. | During project design and ongoing | Program Manager | CSULB | |
| 2. The University will continue to implement policies and programs to reduce water use, such as installing low-use water fixtures, waterless urinals, and other features. | During project design and ongoing | Program Manager | CSULB | |
| 3. The University will continue to coordinate with the Long Beach Water Department to reduce water use during water supply shortages. | Ongoing during water supply shortages | Program Manager | CSULB | |

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| ***Noise*** | | | | |
| 1. Muffled construction equipment will be used wherever possible. | During construction of project | Contractor | CSULB | |
| 2. The contractor will ensure that each piece of operating equipment is in good working condition and that noise suppression features, such as engine mufflers and enclosures, are working and fitted properly. | During construction of project | Contractor | CSULB | |
| 3. The contractor will locate noisy construction equipment as far as possible from residential areas. | During construction of project | Contractor | CSULB | |
| 4. Construction hours will be consistent with the City of Long Beach regulations of between 7 a.m. and 7 p.m. on weekdays and between 9 a.m. and 6 p.m. on Saturdays. No construction will take place on Sundays or federal holidays. | During construction of project | Contractor | CSULB | |
| 5. If a sustained high-noise construction activity takes place within 100 feet from classrooms or other noise-sensitive uses on campus, measures will be taken to limit the amount of noise affecting the sensitive receptor. These measures may include scheduling the activity when classes are not in session or the sensitive receptor is not use, providing a temporary barrier of no less than 6 feet in height made of wood or other similar materials; and/or other measures. | During construction of project within 100 feet of classrooms or other noise-sensitive uses | Construction Manager; Contractor | CSULB | |
| ***Transportation*** | | | | |
| 1. A flag person will be employed as needed to direct traffic when heavy construction vehicles enter the campus from Bellflower Boulevard, Palo Verde Avenue, 7th Street, and Atherton Street. | During construction of project, as needed | Construction Manager; Contractor | CSULB | |
| 2. Construction trucks will avoid travel on residential areas to access campus and use the City of Long Beach designated truck routes to travel to and from campus. | During construction of project | Contractor | CSULB | |
| 3. Construction–related truck traffic will be scheduled to avoid peak travel time on the I-405 and I-605 freeways, and State Route 22 (SR-22), as feasible. | During construction of project | Construction Manager; Contractor | CSULB | |
| 4. If major pedestrian or bicycle routes on campus are temporarily blocked by construction activities, alternate routes around construction areas will be provided, to the extent feasible. These alternate routes will be posted on campus for the duration of construction. | During construction of project, as needed | Construction Manager | CSULB | |

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| 5. If any bus stop or other transit facility on campus is obstructed by construction activity, the University, in cooperation with the transit service providers, will temporarily relocate such transit facility on campus as appropriate. | During construction of project, as needed | Construction Manager | CSULB | |
| ***Utilities and Service Systems*** | | | | |
| 1. Demolition and construction inert materials, including vegetative matter, asphalt, concrete, and other recyclable materials will be recycled to the extent feasible. | During construction of project | Contractor | CSULB | |
| 2. Demolition materials that contain hazardous substances will be disposed at certified disposal facilities in strict compliance with all applicable regulations. | During construction of project, as needed | Contractor | CSULB | |