INTRODUCTION

This mitigation monitoring and reporting plan summarizes identified mitigation measures, implementation schedule, and responsible parties for the Proposed Project. SMUD will use this mitigation monitoring and reporting plan to ensure that identified mitigation measures, adopted as a condition of project approval, are implemented appropriately. This monitoring plan meets the requirements of CEQA Guidelines Section 14074(d), which mandates preparation of monitoring provisions for the implementation of mitigation assigned as part of project approval or adoption.

Mitigation Implementation and Monitoring

SMUD will be responsible for monitoring the implementation of mitigation measures designed to minimize impacts associated with the Proposed Project. While SMUD has ultimate responsibility for ensuring implementation, others may be assigned the responsibility of actually implementing the mitigation. SMUD will retain the primary responsibility for ensuring that the Proposed Project meets the requirements of this mitigation plan and other permit conditions imposed by participating regulatory agencies.

SMUD will designate specific personnel who will be responsible for monitoring implementation of the mitigation that will occur during project construction. The designated personnel will be responsible for submitting documentation and reports to SMUD on a schedule consistent with the mitigation measure and in a manner necessary for demonstrating compliance with mitigation requirements. SMUD will ensure that the designated personnel have authority to require implementation of mitigation requirements and will be capable of terminating project construction activities found to be inconsistent with mitigation objectives or project approval conditions.

SMUD will be responsible for demonstrating compliance with any agency permit conditions to the appropriate regulatory agency. SMUD will also be responsible for ensuring that its construction personnel understand their responsibilities for adhering to the performance requirements of the mitigation plan and other contractual requirements related to the implementation of mitigation as part of project construction.

In addition to the prescribed mitigation measures, Table A-1 lists each identified environmental resource being affected, the corresponding monitoring and reporting requirement, and the party responsible for ensuring implementation of the mitigation measure and monitoring effort.

Mitigation Enforcement

SMUD will be responsible for enforcing mitigation measures. If alternative measures are identified that would be equally effective in mitigating the identified impacts, implementation of these alternative measures will not occur until agreed upon by SMUD.

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Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
					Implementation	**Monitoring**
Air Quality	b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? — Less than Significant with Mitigation	***Mitigation Measure AQ-1. Implement Applicable SMAQMD Basic Construction Emission Control Practices.*** *SMUD or its designated construction contractors shall comply with the following measures to reduce fugitive dust and construction equipment exhaust emissions:* • *Water all exposed surfaces two times daily. Exposed surfaces include but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.* • *Cover or maintain at least 2 feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Cover any haul trucks that will be traveling along freeways or major roadways.* • *Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.* • *Limit vehicle speed on unpaved roads to 15 miles per hour.* • *Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes (required by California Code of Regulations [CCR] Title 13, Sections 2449[d][3] and 2485). Provide clear signage that posts this requirement for workers at the entrances to the site.* • *Maintain all construction equipment in proper working condition according to manufacturer's specifications. Equipment shall be checked by a certified mechanic and determined to be running in proper condition before it is operated.*	Construction	Construction	SMUD	SMUD
Biological Resources	a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS? — Less Than Significant with Mitigation	***Mitigation Measure BIO-1. Avoid and Minimize Impacts on Nesting Birds Protected by the Migratory Bird Treaty Act and California Fish and Game Code.*** *SMUD shall schedule construction activity including tree removal and tree pruning or trimming required during construction outside of the typical nesting season (February 15–September 15) to the extent feasible. A preconstruction survey for nesting birds shall be conducted no more than 10 days before any tree removal or tree trimming or other construction activity that occurs between February 15 and September 15. The nesting bird survey shall include the designated construction area and a 500-foot buffer. If no active nests are found, no further mitigation is required. If an active nest is found in the construction area or within a tree subject to removal or pruning, a 500-foot nest buffer shall be established around the active nest. No construction activity shall occur within the buffer area of a particular nest until the qualified biologist confirms that the chicks have fledged or until it is determined that the nest is no longer active. An alternative nest buffer distance may be authorized in conversations with CDFW if it is determined that the alternative buffer is sufficient to ensure the nest is not adversely affected by construction activity. A qualified biologist shall monitor the status of any active nests within 500 feet of the construction area at least weekly during the nesting season.*	Prior to and during construction	Prior to and during construction	SMUD	SMUD

Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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Biological Resources	e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? — Less Than Significant with Mitigation	***Mitigation Measure BIO-2. Avoid and Minimize Impacts on Protected Trees.*** *SMUD shall submit a tree permit application to the City Department of Transportation (Urban Forestry Services Division). The tree permit application shall identify all tree removals or tree impacts that are expected to occur as a result of project construction. The application shall also identify mitigation to be implemented for these impacts. Mitigation for impacts on or removal of any Heritage Trees shall be consistent with the replacement ratio required by the City of Sacramento Tree Ordinance (City of Sacramento 1999, or subsequent version if adopted prior to project implementation) and* Sacramento 2030 General Plan*. Replacement trees shall be planted on-site and incorporated into the landscape plan for the project. Tree planting shall comply with the City's landscaping requirements (Sacramento City Code Sections 17.612.010 and 17.612.040).* *Protective fencing with tree protection signs shall be erected around all trees (or tree groups) to be preserved during construction activities. The protective fence should be installed at the limits of the tree protection zone as defined in consultation with the City arborist during the permit application process. This will delineate the tree protection area and prevent unwanted activity in and around the trees and will reduce soil compaction in the root zones of the trees and other damage from heavy equipment. The contractor shall maintain the fence to keep it upright, taut, and aligned at all times. Fencing shall be removed only after all construction activities are complete. Canopy or root pruning of any retained Heritage Trees to accommodate construction and/or fire lane access shall conform to the techniques and standards in the current edition of ANSI A300 (Tree, Shrub and Other Woody Plant Maintenance—Standard Practices) or International Society of Arboriculture Best Management Practices. Heritage Trees to be retained on-site shall be protected from construction-related impacts pursuant to Sacramento City Code Section 12.64.040 (Heritage Trees)*	Prior to and during construction	Prior to and during construction	SMUD	SMUD
Cultural Resources	a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5? — Less Than Significant with Mitigation	***Mitigation Measure CUL-1. Ensure Appropriate Protection Measures for SMUD Headquarters and Site.*** *To ensure the protection and maintenance of the historic integrity of the historically significant Headquarters Building and associated landscape throughout the construction period, specific protection measures and recommendations developed by the staff of Wiss, Janney, Elstner Associates, Inc. (HSR) and AECOM (CLR) shall be implemented and/or followed during project design, as appropriate. The Headquarters Building treatment measures include those outlined in the HSR (Appendix B), as appropriate given the proposed project components and goals (Wiss, Janney, Elstner Associates, Inc. 2014). The landscape treatment measures include those outlined in the CLR (Appendix C), as appropriate given the proposed project components and goals (AECOM 2014a). Protection measures for the proposed project include but are not limited to, the following:* *(1) Qualified conservators shall be consulted to develop protection measures for the Wayne Thiebaud mural and other artwork. Appropriate preservation staff*	Prior to and during construction	Prior to and during construction	SMUD	SMUD

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Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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		shall be made available to review all phases of work for consistency with resource protection. *(2) Appropriate contributing historic light or other contributing fixtures or features shall be cataloged, salvaged, and taken off-site for refurbishment as necessary.* *(3) Historic finishes and materials shall be protected with appropriate methods.* *(4) Where no work will take place, areas of the building and landscape shall be barricaded to maintain a physical space between active construction work and protected features.* *(5) Contractor activities shall require preparation of "means and methods" procedures ensuring that no protected features are disturbed.* *(6) Training on protection of historical features shall be provided for all construction workers before the beginning of work on-site.* *(7) Infrastructure upgrades (e.g., conduit in walls) shall be installed where they will not affect significant historic fabric.* *(8) In addition to the protective measures, above, cleaning of historic finishes using "the gentlest means possible" as directed by the Standards for Rehabilitation shall be used.* *(9) When features are to be removed for restoration or repair, all items designated to be retained and reinstalled shall be recorded, labeled, and stored.* *(10) Active site protection administration shall be available from the staff of Wiss, Janney, Elstner Associates, Inc. and AECOM, as needed to ensure that protective measures have been satisfactorily implemented.*				
		Mitigation Measure CUL-2. Conduct Peer Review of Design Plans. *A qualified historic preservation specialist shall conduct a third-party review of the proposed design plans (at least 60% design) for both the building and site before the start of construction to ensure that the plans meet the Secretary of the Interior's Rehabilitation Standards. Reviewers shall meet The Secretary of the Interior's Professional Qualifications Standards for Historic Architects [Headquarters Building] and Historic Landscape Architects [the site]. If the review results in a finding that the proposed plans do not meet the standards, design plans for those elements found to be noncompliant shall be updated before the start of construction on those specific elements.*	Prior to construction	Prior to construction	SMUD	SMUD

Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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Cultural Resources	b) Cause a substantial adverse change in the significance of an archaeological resource as defined in §15064.5? — Less Than Significant with Mitigation	***Mitigation Measure CUL-3. Halt Ground-Disturbing Construction Activities if Cultural Materials Are Discovered.*** *The following measures shall be implemented to avoid or minimize potential impacts on cultural materials:* • *In the event that any unanticipated buried cultural deposits are encountered during any phase of project construction, SMUD shall be contacted, all construction work shall be halted within 100 feet of the discovery, and the cultural deposits shall be assessed for significance by a qualified archaeologist. If, through consultation, the discovery is determined to not be significant, work shall be allowed to continue.* • *If a discovery is determined to be significant, a mitigation plan shall be prepared and carried out in accordance with state guidelines. If the resource cannot be avoided, a data recovery plan shall be developed to ensure collection of sufficient information to address archaeological and historical research questions, and the results shall be presented in a technical report that describes field methods, materials collected, and conclusions. Any cultural material collected as part of an assessment or data recovery effort shall be curated at a qualified facility. Field notes and other pertinent materials shall be curated along with the archaeological collection.*	Construction	Construction	SMUD	SMUD
Cultural Resources	c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? — Less Than Significant with Mitigation	***Mitigation Measure PALEO-1. Conduct Construction Personnel Education, Stop Work If Paleontological Resources Are Discovered, Assess the Significance of the Find, and Prepare and Implement a Recovery Plan, as Required.*** *To minimize the potential for destruction of or damage to previously unknown potentially unique, scientifically important paleontological resources during earthmoving activities at the project site, SMUD shall do the following:* • *Before the start of any earthmoving activities, SMUD shall retain a qualified paleontologist to train all construction personnel involved with earthmoving activities, including the site superintendent, regarding the possibility of encountering fossils, the appearance and types of fossils likely to be seen during construction, and proper notification procedures should fossils be encountered.* • *If paleontological resources are discovered during earthmoving activities, the construction crew shall immediately cease work in the vicinity of the find and notify SMUD. SMUD shall retain a qualified paleontologist to evaluate the resource and prepare a recovery plan in accordance with Society of Vertebrate Paleontology guidelines (SVP 1996). The recovery plan may include but is not limited to a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. The recovery plan shall be submitted to the City of Sacramento for review. Recommendations in the recovery plan that are determined by the City of Sacramento to be necessary and feasible shall be*	Construction	Construction	SMUD	SMUD

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Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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		implemented by SMUD or its contractors before construction activities can resume at the site where the paleontological resources were discovered				
Cultural Resources	d) Disturb any human remains, including those interred outside of formal cemeteries? — Less than Significant with Mitigation	***Mitigation Measure CUL-4. Stop Potentially Damaging Work If Human Remains Are Uncovered during Construction, Assess the Significance of the Find, and Pursue Appropriate Management.*** *To minimize the potential for destruction of or damage to previously unknown human remains during earthmoving activities at the project site, SMUD shall implement the following measures:* • *In accordance with the California Health and Safety Code, if human remains are uncovered during ground-disturbing activities, the contractor(s) shall immediately halt potentially damaging excavation in the area of the burial and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she must contact the NAHC by phone within 24 hours of making that determination (Health and Safety Code Section 7050[c]). After the coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD) shall determine the ultimate treatment and disposition of the remains. The responsibilities of SMUD and the City for acting upon notification of a discovery of Native American human remains are identified in PRC Section 5097.9 et seq.* • *Upon the discovery of Native American remains, SMUD shall ensure that the all construction work will stop within 100 feet of the discovery until consultation with the MLD has taken place. The MLD shall have 48 hours to complete a site inspection and make recommendations after being granted access to the site. A range of possible treatments for the remains, including nondestructive removal and analysis, preservation in place, relinquishment of the remains and associated items to the descendants, or other culturally appropriate treatment may be discussed. PRC Section 5097.98(b)(2) suggests that the concerned parties may mutually agree to extend discussions beyond the initial 48 hours to allow for the discovery of additional remains. The following is a list of site protection measures that SMUD shall employ:* *(1) Record the site with the NAHC or the appropriate Information Center.* *(2) Use an open-space or conservation zoning designation or easement.* *(3) Record a document with the county in which the property is located.* • *SMUD or SMUD's authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance if the NAHC is unable to identify an MLD, or if the MLD fails to make a recommendation within 48 hours after being granted access to the site. SMUD or SMUD's*	Construction	Construction	SMUD	SMUD

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Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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		authorized representative may also reinter the remains in a location not subject to further disturbance if he or she rejects the recommendation of the MLD and mediation by the NAHC fails to provide measures acceptable to the landowner. SMUD shall implement mitigation for the protection of the burial remains. Construction work in the vicinity of the burials shall not resume until the mitigation is completed				
Hazards and Hazardous Materials	b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? — Less than Significant with Mitigation.	***Mitigation Measure HAZ-1. Retain a Licensed Professional to Investigate Known or Unknown Hazards and Hazardous Materials and Implement Required Measures, as Necessary.*** *To reduce health hazards associated with potential exposure to hazardous substances, SMUD and/or its construction contractors shall implement the following measures before the start of exterior and interior rehabilitation of the Headquarters Building and construction of building additions and alterations:* • *SMUD shall retain a licensed contractor to remove the UST, oil-water skimmer, and other equipment associated with the hydraulic lift located in the basement of the SMUD Headquarters Building. Such removal shall occur in accordance with Sacramento County Environmental Management Department and RWQCB regulations, including SWRCB regulations outlined in CCR Title 23, Division 3, Chapter 16. These regulations establish separate monitoring requirements for existing USTs; establish uniform requirements for unauthorized release reporting and for repair, upgrade, and closure of USTs; and specify variance request procedures. The appropriate federal, state, and local agencies shall be notified if evidence of previously undiscovered soil or groundwater contamination (e.g., stained soil, odorous groundwater) is encountered during construction activities. SMUD shall retain a qualified environmental professional to conduct follow-up sampling to characterize the contamination and to identify any required remediation that shall be conducted consistent with applicable regulations. The environmental professional shall prepare a report that includes but is not limited to activities performed for the assessment, a summary of anticipated contaminants and contaminant concentrations at the project site, and recommendations for appropriate handling of any contaminated materials during construction. Any contaminated areas shall be remediated in accordance with recommendations made by the Sacramento County Environmental Management Department, Central Valley RWQCB, DTSC, or other appropriate federal, state, or local regulatory agencies.* • *SMUD shall conduct an assessment to identify the contents of the existing electrical transformer located in the basement of the SMUD Headquarters Building. The assessment shall determine whether the existing on-site electrical transformer contains PCBs and whether there are any records of spills from such equipment. If PCBs are identified, the maintenance and/or disposal of the electrical transformer shall be subject to the regulations of the Toxic Substances Control Act under the authority of the Sacramento County*	Prior to and during construction	Prior to and during construction	SMUD	SMUD

Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
					Implementation	**Monitoring**
		Environmental Management Department.				
		Mitigation Measure HAZ-2: Remove and Dispose of On-Site Asbestos-Containing Materials. *Before and during exterior and interior rehabilitation of the Headquarters Building, SMUD shall ensure that asbestos-containing materials are properly removed by a licensed abatement contractor in accordance with EPA and Cal/OSHA standards and ARB Asbestos Rule 902. The licensed abatement contractor shall develop and implement a worker protection program in accordance with OSHA's regulations pertaining to asbestos to minimize worker risk of asbestos exposure. The plan may include but is not limited to the following components:* • *the use of engineering controls and work practices, where feasible, designed to reduce exposure (for example, washing hands before eating and providing shower facilities for use before employees leave the work site);* • *the provision of protective clothing and, where necessary, respiratory protection in accordance with 29 CFR 1910.134; and* • *disposal of wastes from abatement and demolition activities at a landfill(s) licensed to accept such waste.* *Once all abatement measures have been implemented, a Certified Asbestos Consultant shall conduct a clearance examination and provide written documentation to the Sacramento County Environmental Management Department and SMAQMD that testing and abatement have been completed in accordance with all federal, state, and local laws and regulations.*	Prior to and during construction	Prior to and during construction	SMUD	SMUD
Hazards and Hazardous Materials	g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? — Less than Significant with Mitigation.	***Mitigation Measure HAZ-3. Prepare and Implement a Construction Traffic Control Plan.*** *SMUD and/or its construction contractors shall prepare and implement a traffic control plan for construction activities that may affect road rights-of-way, to facilitate travel of emergency vehicles on affected roadways. The traffic control plan shall follow applicable City of Sacramento standards and shall be approved and signed by a professional engineer. Measures typically used in traffic control plans include advertising of planned lane closures, warning signage, a flag person to direct traffic flows when needed, and methods to ensure continued access by emergency vehicles. During project construction, access to the existing surrounding land uses shall be maintained at all times, with detours used as necessary during road closures. The traffic control plan shall be submitted to the City of Sacramento Public Works Department for review and approval before the approval of improvement plans.*	Prior to and during construction	Prior to and during construction	SMUD	SMUD

Table A-1: Mitigation Measures

Checklist Section	Environmental Criteria	Mitigation Measure	Implementation Duration	Monitoring Duration	Responsibility	
					Implementation	Monitoring
Hydrology and Water Quality	a) Violate any water quality standards or waste discharge requirements? f) Otherwise substantially degrade water quality? Less Than Significant with Mitigation	***Mitigation Measure HYDRO-1. Prepare and Implement a Storm Water Pollution Prevention Plan and an Erosion and Sediment Control Plan, and Implement Best Management Practices.*** *The proposed project shall comply with applicable regulations designed to reduce or eliminate construction-related water quality effects, including the NPDES Construction General Permit, stormwater quality improvement plan, and Grading, Erosion, and Sediment Control Ordinance. Before development and issuance of the grading permits, an application for coverage under the Construction General Permit (Order No. 2009-0009-DWQ, as amended by 2010-0014-DWQ and 2012-006-DWQ) and an erosion and sediment control plan shall be submitted to the City. Before construction may begin, a NOI shall be filed with the Central Valley RWQCB and a project-specific SWPPP shall be developed to minimize erosion and transport of sediment, meet water quality objectives identified in the Water Quality Control Plan for the Sacramento and San Joaquin River Basins, and protect beneficial uses. BMPs included in the SWPPP shall include measures such as installing silt fences, covering stockpiled soils, and locating stockpiled soils away from storm drain inlets. Through the stormwater quality improvement plan, City staff will provide guidance on BMPs to reduce sediment in construction site runoff and reduce other pollutants such as litter and concrete wastes through good-housekeeping procedures and proper waste management. The City's process includes having City staff complete inspections to verify that the erosion and sediment control plan and SWPPP are implemented correctly.* *An erosion and sediment control plan shall be developed that includes a site map and a description of BMPs designed to control dust and stabilize the construction site road and entrance, and a description of the methods of storage and disposal of construction materials. Appropriate BMPs for the erosion and sediment control plan may include but are not limited to the following:* • *Schedule work to minimize soil-disturbing activities during the rainy season and schedule major grading operations for the dry season when practical.* • *Cover exposed soil to reduce its exposure to rainfall, reserve existing vegetation where feasible, and apply mulch or hydroseed areas until permanent stabilization is established.* • *Apply water or other dust palliatives to prevent dust nuisance; prevent overwatering that can cause erosion. Alternatively, cover small stockpiles.* • *Install silt fences, sediment basins, sediment traps, check dams, fiber rolls, sand or gravel bag barriers, straw bale barriers, vegetated swales, approved chemical treatment, storm drain inlet protection, or other low impact development measures to minimize the discharge of sediment. Cover all stockpiled soil until it is needed. Cover all soil in haul trucks.* • *Stabilize the construction site entrance to prevent tracking of sediment onto public roads by construction vehicles. Stabilize on-site vehicle transportation routes immediately after grading to prevent erosion and control dust.*	Prior to and during construction	Prior to and during construction	SMUD	SMUD

Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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		• *Remove litter from the construction site at least once daily. Dispose of packing materials immediately in an enclosed container.*				
		Mitigation Measure HYDRO-2. Obtain Coverage under the General Dewatering Permit or Obtain a Project-Specific Dewatering Discharge Permit and Implement Associated Requirements to Meet Discharge Limits. *If dewatering is required as part of project construction, SMUD shall obtain coverage for the proposed project under the General Dewatering Permit (Order No. 5-00-175) or obtain a project-specific dewatering discharge permit from the Central Valley RWQCB before construction, depending on the discharge volume and duration of dewatering activities. Discharges may be covered by the General Dewatering Permit provided that either (1) they are 4 months or less in duration or (2) the average dry-weather discharge does not exceed 0.25 million gallons per day. The General Dewatering Permit specifies standards for testing, monitoring, and reporting; receiving-water limitations; and discharge prohibitions. If a project-specific dewatering discharge permit is required from the Central Valley RWQCB, it shall include specific requirements and establish discharge limits.*	Prior to and during dewatering activities	Prior to and during dewatering activities	SMUD	SMUD
		Mitigation Measure HYDRO-3. Establish a Memorandum of Understanding or Permit for Groundwater Discharges with the City's Department of Utilities. *If dewatering is required during construction, the proposed project shall receive approval from the City of Sacramento Department of Utilities before construction. Any long-term discharges of greater than 7 days must be approved by the City Department of Utilities and the Director of the Department of Utilities through an MOU process. The MOU will specify the type of groundwater discharge, flow rates, and discharge system design, and will include a City-approved contaminant assessment of the proposed groundwater discharge indicating tested levels of constituents and a City-approved effluent monitoring plan to ensure that contaminant levels remain in compliance with state standards or Central Valley RWQCB–approved levels.*	Prior to dewatering activities	Prior to dewatering activities	SMUD	SMUD
Hydrology and Water Quality	c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? d) Substantially alter the existing drainage pattern of a site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	***Mitigation Measure HYDRO-4. Prepare, Submit, and Implement a Final Drainage Plan.*** *Before the approval of the grading plan and building permit, SMUD shall submit a final drainage plan to the City demonstrating that project-related on-site runoff will be appropriately contained in detention basins or managed through other improvements (e.g., source controls using low impact development techniques such as vegetated swales) to reduce flooding. The plans shall include but not be limited to the following items:* • *an accurate calculation of preproject and postproject runoff for the final design scenario, obtained using appropriate engineering methods, that accurately evaluate potential changes to runoff, including increased surface runoff;* • *runoff calculations for the 100-year (0.01-AEP) storm event (and other, smaller storm events as required) and the drainage pipeline sizes based on alignments*	Prior to approval of the grading plan and building permit	Prior to approval of the grading plan and building permit	City of Sacramento Department of Utilities	City of Sacramento Department of Utilities

Table A-1: Mitigation Measures						
Checklist Section	**Environmental Criteria**	**Mitigation Measure**	**Implementation Duration**	**Monitoring Duration**	**Responsibility**	
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	Less Than Significant with Mitigation	*and finalized detention facility locations;* • *a description of the proposed maintenance program for the on-site drainage system;* • *a detailed description of the pipe improvements on S Street and required coordination with the City; and* • *project-specific standards for installing drainage systems.* *Source control BMPs may include the use of low impact development techniques such as surface swales; replacement of conventional impervious surfaces with pervious surfaces (e.g., porous pavement); disconnection of impervious surfaces; green roofs; and trees planted to intercept stormwater.* *The final drainage plan shall demonstrate to the satisfaction of the City of Sacramento Department of Utilities that 100-year (0.01-AEP) flood flows would be appropriately channeled and contained, such that the risk to people or damage to structures within or downgradient of the project site would not occur and the capacity of the stormwater drainage system would not be exceeded or require expansion.*				
		Mitigation Measure HYDRO-5: Incorporate Stormwater Quality Control Measures to Satisfy the Requirements of the Sacramento MS4 Permit, Including Long-Term Maintenance Requirements. *Before the approval of the grading plan and building permit, SMUD shall utilize the* Sacramento Region Stormwater Quality Design Manual *(May 2014) to identify source-control measures, low impact development development measures, and treatment control measures to satisfy the regulatory requirements of the Sacramento MS4 Permit and thereby reduce runoff pollution associated with the proposed project to the maximum extent practicable. A long-term maintenance agreement or covenant for selected control measures shall be established to ensure ongoing maintenance of facilities.*	Prior to approval of the grading plan and building permit	Prior to Construction, During Operation	SMUD	SMUD
Noise	a) Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? Less Than Significant with Mitigation	***Mitigation Measure NOISE-1. Implement Best Management Practices to Control Construction Noise.*** *SMUD and its construction contractor shall implement the following BMPs to control noise associated with project construction equipment:* • *Fixed/stationary equipment (e.g., generators, compressors, cement mixers) shall be operated in locations that are as far away as possible from existing noise-sensitive receptors. All impact tools shall be shrouded or shielded, and all intake and exhaust ports on powered construction equipment shall be muffled or shielded.* • *All construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations.*	Construction	Construction	SMUD	SMUD

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		• *Equipment engine shrouds will be closed during equipment operation.* • *All motorized construction equipment shall be shut down when not in use.* • *Written notification of heavy construction activities (i.e., heavy earthmoving, building demolition) shall be provided to all noise-sensitive receptor properties located within 500 feet of the project site. Notification shall include the dates and hours during which construction activities are anticipated to occur and contact information, including a daytime telephone number, for the project representative to be contacted in the event that noise levels are deemed excessive. Recommendations to assist noise-sensitive land uses in reducing interior noise levels (e.g., closing windows and doors) shall be included in the notification.* • *Major construction activities (grading, paving, and any other use of heavy equipment) shall be limited to the hours between 7:00 a.m. and 6:00 p.m., Monday through Saturday, and 9:00 a.m. and 6:00 p.m. on Sundays.*				
Transportation and Circulation	g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? — Less than Significant with Mitigation.	***Mitigation Measure TRA-1. Prepare and Implement a Construction Traffic Control Plan.*** *SMUD and/or its construction contractors shall prepare and implement a traffic control plan for construction activities that may affect road rights-of-way, to facilitate travel of emergency vehicles on affected roadways. The traffic control plan shall follow applicable City of Sacramento standards and shall be approved and signed by a professional engineer. Measures typically used in traffic control plans include advertising of planned lane closures, warning signage, a flag person to direct traffic flows when needed, and methods to ensure continued access by emergency vehicles. During project construction, access to the existing surrounding land uses shall be maintained at all times, with detours used as necessary during road closures. The traffic control plan shall be submitted to the City of Sacramento Public Works Department for review and approval before the approval of improvement plans.*	Prior to and during construction	Prior to and during construction	SMUD	SMUD