EXHIBIT 1: MITIGATION MONITORING AND REPORTING PROGRAM

	MONITORING AND REPORTING PROGRAM				
Adopted Mitigation Measures	**Responsibility for Implementation**	**Mitigation Schedule**	**Mitigation Action**	**Monitoring/ Reporting Responsibility**	**Monitoring Schedule**
A-1 MITIGATION MEASURES AGREED TO BY PROJECT SPONSOR					
CULTURAL AND PALEONTOLOGICAL RESOURCES					
M-CP-N2 (Cathedral Hill with or without Variants):					
Based on a reasonable presumption that archaeological resources may be present within the project site, the following measures shall be undertaken to avoid any potentially significant adverse effects from the proposed project on buried or submerged historical resources. CPMC shall retain the services of a qualified archaeological consultant having expertise in California prehistoric and urban historical archaeology. The archaeological consultant shall undertake an archaeological testing program as specified herein. In addition, the consultant shall be available to conduct an archaeological monitoring and/or data recovery program if required pursuant to this measure. The archaeological consultant's work shall be conducted in accordance with this measure and with the requirements of the project archaeological research design and treatment plan completed for this CPMC campus site[1] at the direction of the Environmental Review Officer (ERO). In instances of inconsistency between the requirement of the project archaeological research design and treatment plan and of this archaeological mitigation measure, the requirements of this archaeological mitigation measure shall prevail. All plans and reports prepared by the consultant as specified herein shall be submitted first and directly to the ERO for review and comment and shall be considered draft reports subject to revision until final approval by the ERO. Archaeological monitoring and/or data recovery programs required by this measure could suspend construction of the proposed LRDP for up to a maximum of 4 weeks. At the direction of the ERO, the suspension of construction can be extended beyond 4 weeks only if such a suspension is the only feasible means to reduce to a less-than-significant level potential	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to retain archaeological consultant to undertake archaeological monitoring program in consultation with ERO.	Project sponsor, archaeologist and ERO.	Complete when Project Sponsor retains a qualified archaeological consultant.

[1] This refers to individual archaeological research design/treatment plans prepared by Archeo-Tec and AECOM for the CPMC LRDP in January 2010 and June 2010. Separate plans were prepared for the Cathedral Hill Campus, Pacific Campus, Davies Campus, and St. Luke's Campus. Each of these plans is on file with the Planning Department, 1650 Mission Street, Suite 400, San Francisco, CA 94103 in Case No. 2005.0555E.

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effects on a significant archaeological resource, as defined in the State CEQA Guidelines, Section 15064.5(a)(c).					
Archaeological Testing Program. The archaeological consultant shall prepare and submit to the ERO for review and approval an archaeological testing plan (ATP). The archaeological testing program shall be conducted in accordance with the approved ATP. The ATP shall identify the property types of the expected archaeological resource(s) that could be adversely affected by the proposed LRDP, the testing method to be used, and the locations recommended for testing. The purpose of the archaeological testing program will be to determine, to the extent possible, the presence or absence of archaeological resources and to identify and evaluate whether any archaeological resource encountered on the site constitutes a historical resource under CEQA.	Project Sponsor/Archaeological consultant, at the direction of the ERO.	Prior to any soil-disturbing activities on the project site.	Prepare and submit draft ATP. Implement ATP.	Archaeological consultant and ERO.	After consultation with and approval by ERO of ATP. Considered complete on finding by ERO that ATP implemented.
At the completion of the archaeological testing program, the archaeological consultant shall submit a written report of the findings to the ERO. If, based on the archaeological testing program, the consultant finds that significant archaeological resources may be present, the ERO in consultation with the consultant shall determine whether additional measures are warranted. Additional measures that may be undertaken include additional archaeological testing, archaeological monitoring, and/or an archaeological data recovery program. If the ERO determines that a significant archaeological resource is present and that the resource could be adversely affected by the proposed LRDP, at the discretion of CPMC either (a) the proposed LRDP shall be redesigned so as to avoid any adverse effect on the significant archaeological resource; or (b) a data recovery program shall be implemented unless the ERO determines that the archaeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible.	Project Sponsor/Archaeological consultant, at the direction of the ERO.	After completion of ATP.	Submit report to ERO of the findings of the ATP.	Archaeological consultant and ERO.	Considered complete on submittal to ERO of report on ATP findings.
Archaeological Monitoring Program. If the ERO in consultation with the archaeological consultant determines that an archaeological monitoring program shall be implemented, the archaeological monitoring program shall, at a minimum, include the following provisions: ► The archaeological consultant, CPMC, and ERO shall meet and consult on the scope of the AMP reasonably prior to commencement of any project-related soil-disturbing activities. The ERO in consultation with the archaeological consultant shall determine what project activities shall be archaeologically monitored. In most cases,	Project Sponsor/ Archaeological Consultant,/ Archaeological Monitor/Contractor(s), at the direction of the ERO.	ERO & Archaeological Consultant meet prior to commencement of soil-disturbing activity. If ERO determines that an AMP is	Implement AMP.	Archaeological consultant and ERO.	Considered complete on findings by ERO that AMP implemented.

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any soil-disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archaeological monitoring because of the risk these activities pose to potential archaeological resources and to their depositional context.		necessary, monitor throughout all soil-disturbing activities.			
► The archaeological consultant shall advise all project contractors to be alert for evidence of the presence of the expected resource(s), of how to identify the evidence of the expected resource(s), and of the appropriate protocol in the event of apparent discovery of an archaeological resource.	Archaeological consultant.		Advises project contractor(s)		
► The archaeological monitor(s) shall be present on the project site according to a schedule agreed upon by the archaeological consultant and the ERO until the ERO has, in consultation with the consultant, determined that project construction activities could have no effects on significant archaeological deposits.					
► The archaeological monitor shall record and be authorized to collect soil samples and artifactual/ecofactual material as warranted for analysis.					
► If an intact archaeological deposit is encountered, all soil-disturbing activities in the vicinity of the deposit shall cease. The archaeological monitor shall be empowered to temporarily redirect demolition/excavation/pile-driving/construction activities and equipment until the deposit is evaluated. If, in the case of pile-driving activity (foundation, shoring, etc.), the archaeological monitor has cause to believe that the pile driving may affect an archaeological resource, the pile-driving activity shall be terminated until an appropriate evaluation of the resource has been made in consultation with the ERO. The archaeological consultant shall immediately notify the ERO of the encountered archaeological deposit. The archaeological consultant shall make a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, and to present the findings of this assessment to the ERO.	Archaeological consultant.		Notify ERO if intact archaeological deposit is encountered.		
Whether or not significant archaeological resources are encountered, the archaeological consultant shall submit a written report of the findings of					

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the monitoring program to the ERO.					
Archaeological Data Recovery Program. The archaeological data recovery program shall be conducted in accordance with an archaeological data recovery plan (ADRP). The archaeological consultant, CPMC, and ERO shall meet and consult on the scope of the ADRP prior to preparation of a draft ADRP. The archaeological consultant shall submit a draft ADRP to the ERO. The ADRP shall identify how the proposed data recovery program will preserve the significant information that the archaeological resource is expected to contain (i.e., the ADRP will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions). Data recovery, in general, should be limited to the portions of the historical property that could be adversely affected by the proposed LRDP. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practical. The scope of the ADRP shall include the following elements: ► *Field Methods and Procedures.* Descriptions of proposed field strategies, procedures, and operations. ► *Cataloguing and Laboratory Analysis*. Description of selected cataloguing system and artifact analysis *procedures.* ► *Discard and Deaccession Policy*. Description of and rationale for field and post-field discard and deaccession policies. ► *Interpretive Program*. Consideration of an on-site/off-site public interpretive program during the course of the archaeological data recovery program. ► *Security Measures.* Recommended security measures to protect the archaeological resource from vandalism, looting, and unintentionally damaging activities. ► *Final Report*. Description of proposed report format and distribution of results. ► *Curation*. Description of the procedures and recommendations for the curation of any recovered data having potential research value,	Archaeological consultant at the direction of the ERO.	If there is determination by the ERO than an ADR program is required.	Prepare an ARDP	Archaeological consultant and ERO.	Considered complete on finding by ERO that ARDP implemented.

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identification of appropriate curation facilities, and a summary of the accession policies of the curation facilities.					
Human Remains and Associated or Unassociated Funerary Objects. The treatment of human remains and of associated or unassociated funerary objects discovered during any soil-disturbing activity shall comply with applicable federal and state laws. This shall include immediate notification of the county coroner of the City and County of San Francisco and, in the event of the coroner's determination that the human remains are Native American remains, notification of the NAHC, which shall appoint an MLD (PRC Section 5097.98). The archaeological consultant, CPMC, and MLD shall make all reasonable efforts to develop an agreement for the treatment of, with appropriate dignity, human remains and associated or unassociated funerary objects (State CEQA Guidelines Section 15064.5[d]). The agreement should take into consideration the appropriate excavation, removal, recordation, analysis, custodianship, curation, and final disposition of the human remains and associated or unassociated funerary objects.	Project Sponsor/Archaeological consultant in consultation with the San Francisco Coroner, NAHC, and MLD.	In the event human remains and/or funerary objects are encountered.	Contact San Francisco County Coroner. Implement regulatory requirements, if applicable, regarding discovery of Native American human remains and associated/unassociated funerary objects.	Archaeological consultant and ERO.	Considered complete on notification of the San Francisco County Coroner and NAHC, if necessary.
Chinese and Japanese Archaeological Sites. In the event of discovery of a potentially CRHR-eligible Overseas Chinese or Japanese archaeological deposit, the appropriate descendent representative organization, that is, the Chinese Historic Society of America or the National Japanese American Historical Society, shall be notified and shall be allowed the opportunity to monitor and advise further mitigation efforts, including archaeological identification, evaluation, interpretation, and public interpretive efforts.	Project Sponsor/ Archaeological consultant in consultation with Chinese Historic Society of America or National Japanese American Historical Society.	In the event of discovery of potentially CRHR-eligible Overseas Chinese or Japanese archaeological deposit.	Contact Chinese Historic Society of America or National Japanese American Historical Society and implement any further mitigation advised.	Archaeological consultant and ERO.	Considered complete upon notification of appropriate organization and implementation of any further mitigation advised.
Final Archaeological Resources Report. The archaeological consultant shall submit a draft final archaeological resources report (FARR) to the ERO that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological testing/monitoring/data recovery program(s) undertaken. Information that may put any archaeological resource at risk shall be provided in a separate removable insert within the final report.	Project Sponsor/Archaeological consultant at the direction of the ERO.	After completion of archaeological data recovery, inventorying, analysis, and interpretation.	Submit a Draft FARR.	Archaeological consultant and ERO.	Considered complete on submittal of FARR.
Once approved by the ERO, copies of the FARR shall be distributed as follows: California Archaeological Site Survey Northwest Information	Archaeological consultant at the	Written certification	Distribute FARR.	Archaeological consultant and	Considered complete on

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Center (NWIC) shall receive one copy, and the ERO shall receive one copy of the transmittal of the FARR to the NWIC. The Major Environmental Analysis Division (MEA) of the Planning Department shall receive two copies (bound and unbound) of the FARR and one unlocked, searchable PDF copy on a compact disk. MEA shall receive a copy of any formal site recordation forms (California Department of Parks and Recreation Form 523 series) and/or documentation for nomination to NRHP/CRHR. In instances of high public interest in or high interpretive value of the resource, the ERO may require a different final report content, format, and distribution than that presented above.	direction of the ERO.	submitted to ERO that required FARR distribution has been completed.		ERO.	distribution of FARR.
Mitigation Measure M-CP-N2 (Davies [near-term] and St. Luke's with or without project variants)					
This mitigation measure is identical to Mitigation Measure M-CP-N2 for the Cathedral Hill Campus.	See M-CP-N2	See M-CP-N2	See M-CP-N2	See M-CP-N2	See M-CP-N2
Mitigation Measure M-CP-N3 (Cathedral Hill and St. Luke's with or without variants and Davies [near-term])					
For each of the CPMC campuses where earthmoving activities would occur in the Colma Formation, slope debris and ravine fill sediments, and older native sediments (as identified in the applicable geotechnical reports for each campus), CPMC shall implement the following measures:					
• Before the start of any earthmoving activities, CPMC shall retain a qualified paleontologist or archaeologist 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.	Project Sponsor/Paleontological or Archaeological Consultant	Prior to soil disturbing activities.	Train construction personnel regarding possibility of encountering fossils.	Paleontological or Archaeological Consultant and ERO	Considered complete once training is held.
• If paleontological resources are discovered during earthmoving activities, the construction crew shall immediately cease work near the find and notify CPMC and the San Francisco Planning Department. CPMC shall retain a qualified paleontologist to evaluate the resource and prepare a recovery plan in accordance with SVP guidelines.[2] The recovery plan may include a field survey, construction monitoring, sampling and data recovery	Project Sponsor/Paleontological Consultant	During soil disturbing activities.	Project Sponsor to retain Paleontological Consultant if paleontological resources are	Paleontological Consultant and ERO.	Considered complete upon implementation of recovery plan and approval by ERO.

2 Society of Vertebrate Paleontology. 1996. Conditions of Receivership for Paleontologic Salvage Collections (final draft). *Society of Vertebrate Paleontology News Bulletin* 166:31–32.

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procedures, museum storage coordination for any specimen recovered, and a report of findings. Recommendations in the recovery plan that are determined by the City to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered.			found. The paleontologist to evaluate and prepare a recovery plan, and		
Mitigation Measure M-CP-N4 (Cathedral Hill, Davies (near-term) and St. Luke's)					
This mitigation measure is identical to Mitigation Measure M-CP-N2, above.	See M-CP-N2	See M-CP-N2	See M-CP-N2	See M-CP-N2	See M-CP-N2
TRANSPORTATION AND CIRCULATION					
Mitigation Measure MM-TR-29 (Cathedral Hill)					
CPMC shall ensure that the transit delay impact related to the Cathedral Hill Campus project on the 49-Van Ness-Mission is reduced to a less-than-significant level by financially compensating the SFMTA for the cost of providing the service needed to accommodate the project at proposed levels of service. The financial contribution shall be calculated and applied in a manner that is consistent with the SFMTA cost/scheduling model. The amount and schedule for payment and commitment to application of service needs shall be set forth in a Transit Mitigation Agreement between CPMC and SFMTA.	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to enter into Transit Mitigation Agreement regarding financial compensation to SFMTA for cost of providing service needed to accommodate project at proposed	Project Sponsor and SFMTA	Considered complete when Transit Mitigation Agreement is final and signed by CPMC and SFMTA and payment is made.

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			levels of service.		
Mitigation Measure MM-TR-30 (Cathedral Hill) CPMC shall ensure that the transit delay impact related to the Cathedral Hill Campus project on the 38/38L-Geary is reduced to a less-than-significant level by financially compensating the SFMTA for the cost of providing the service needed to accommodate the project at proposed levels of service. The financial contribution shall be calculated and applied in a manner that is consistent with the SFMTA cost/scheduling model. The amount and schedule for payment and commitment to application of service needs shall be set forth in a Transit Mitigation Agreement between CPMC and SFMTA.	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to enter into Transit Mitigation Agreement regarding financial compensation SFMTA for cost of providing service needed to accommodate project at proposed levels of service.	Project Sponsor and SFMTA	Considered complete when Transit Mitigation Agreement is final and signed by CPMC and SFMTA and payment is made.
Mitigation Measure MM-TR-31 (Cathedral Hill) CPMC shall ensure that the transit delay impact related to the Cathedral Hill Campus project on the 19-Polk is reduced to a less-than-significant level by financially compensating the SFMTA for the cost of providing the service needed to accommodate the project at proposed levels of service. The financial contribution shall be calculated and applied in a manner that is consistent with the SFMTA cost/scheduling model. The amount and schedule for payment and commitment to application of service needs shall be set forth in a Transit Mitigation Agreement between CPMC and SFMTA.	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to enter into Transit Mitigation Agreement regarding financial compensation to SFMTA for cost of providing service needed to accommodate project at proposed levels of service.	Project Sponsor and SFMTA	Considered complete when Transit Mitigation Agreement is final and signed by CPMC and SFMTA and payment is made.
Mitigation Measure MM-TR-44 (Cathedral Hill): Loading Dock Restrictions and Attendant To minimize the potential disruptions to intersections operations and safety, CPMC shall schedule delivery trucks longer than 46 feet in length to only arrive and depart between 10 p.m. and 5 a.m., when traffic	Project Sponsor	Monitoring and documentation during 6 months	Project Sponsor to monitor and document truck	Project Sponsor, ERO, and SFMTA	Monitoring and documentation considered

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volumes on Franklin Street are lower and when there would be a less likely chance that queues would form behind the truck and extend into adjacent intersections. Because some disruption may still occur between 10 p.m. and midnight, CPMC shall monitor and document truck deliveries occurring between 10 p.m. and midnight for a period of 6 months following full building occupancy/program implementation, recording truck size, number of lanes blocked by delivery trucks and for how long, and whether operations at the intersection of Franklin/Geary are temporarily affected and for how long. CPMC shall submit the truck loading report to the Planning Department and SFMTA. Based on the truck loading report and review, the deliveries by trucks longer than 46 feet in length may be modified. An attendant at the loading dock shall also be present to stop on-coming traffic while delivery trucks maneuver into the service loading area.		following full building occupancy/program implementation. Attendant to be present during operations.	deliveries between 10 p.m. and 6 a.m. and prepare truck loading report. Schedule restriction on trucks longer than 46 feet. Attendant to be present to stop oncoming traffic while delivery trucks maneuver into loading area.		complete on finding by ERO and SFMTA that the truck loading report is final. Schedule restriction on trucks longer than 46 feet considered ongoing during project operations, subject to modificiation after review of truck loading report. Attendant considered ongoing during operations,
Mitigation Measure TR-55 (Cathedral Hill)					
CPMC shall develop and implement a Construction Transportation Management Plan (TMP) to anticipate and minimize impacts of various construction activities associated with the Proposed Project. The Plan would disseminate appropriate information to contractors and affected agencies with respect to coordinating construction activities to minimize overall disruptions and ensure that overall circulation is maintained to the extent possible, with particular focus on ensuring pedestrian, transit, and bicycle connectivity. The program would supplement and expand, rather than modify or supersede, any manual, regulations, or provisions set forth by Caltrans, SFMTA, DPW, or other City departments and agencies. Specifically, the plan should: Identify construction traffic management best practices in San Francisco,	Project Sponsor	Prior to and during construction.	Project Sponsor to develop and implement a Construction TMP, for review and approval by MTA, DPW and Planning.	Project Sponsor, ERO, SFDPW, and SFMTA	Development of Construction TMP considered complete upon review and approval. Implementation of Construction TMP considered complete upon completion of construction.

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as well as others that, although not being implemented in the City, could provide valuable information for the project. Management practices include, but are not limited to • Identifying ways to reduce construction worker vehicle trips through transportation demand management programs and methods to manage construction work parking demands. • Identifying best practices for accommodating pedestrians, such as temporary pedestrian wayfinding signage or temporary walkways. • Identifying ways to accommodate transit stops located at sidewalks slated for closure during construction. This may include identifying locations for temporary bus stops, as well as signage directing riders to those temporary stops. • Identifying ways to consolidate truck delivery trips, including a plan to consolidate deliveries from a centralized construction material and equipment storage facility. • Identifying best practices for managing traffic flows on Van Ness Avenue during the nighttime hours for the period when tunnel construction would involve surface construction activities. This may include coordination with Caltrans on appropriate traffic management practices and lane closure procedures. Describe procedures required by different departments and/or agencies in the city for implementation of a Construction TMP, such as reviewing agencies, approval processes, and estimated timelines. For example, • CPMC shall coordinate temporary and permanent changes to the transportation network within the City of San Francisco, including traffic, street and parking changes and lane closures, with the SFMTA. Any permanent changes may require meeting with the SFMTA Board of Directors or one of its sub-Committees. This may require a public hearing. Temporary traffic and transportation changes must be coordinated through the SFMTA's Interdepartmental Staff Committee on Traffic and Transportation (ISCOTT) and would require a public meeting. As part of this process, the Construction Plan may be reviewed by SFMTA's Transportation Advisory Committee (TASC) to resolve internal differences between different transportation modes.					

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• Caltrans Deputy Directive 60 (DD-60) requires TMP and contingency plans for all state highway activities. These plans should be part of the normal project development process and must be considered during the planning stage to allow for the proper cost, scope and scheduling of the TMP activities on Caltrans right-of-way. These plans should adhere to Caltrans standards and guidelines for stage construction, construction signage, traffic handling, lane and ramp closures and TMP documentation for all work within Caltrans right-of-way. Require consultation with other Agencies, including Muni/SFMTA and property owners on Cedar Street, to assist coordination of construction traffic management strategies as they relate to bus-only lanes and service delivery on Cedar Street. CPMC should proactively coordinate with these groups prior to developing their Plan to ensure the needs of the other users on the blocks addressed within the construction TMP for the project. Identify construction traffic management strategies and other elements for the project, and present a cohesive program of operational and demand management strategies designed to maintain acceptable levels of traffic flow during periods of construction activities. These include, but are not limited to, construction strategies, demand management activities, alternative route strategies, and public information strategies. Develop a public information plan to provide adjacent residents and businesses with regularly-updated information regarding project construction, including construction activities, peak construction vehicle activities (e.g., concrete pours), travel lane closures, and other lane closures. The Construction Transportation Management Plan shall be submitted to SFMTA, SFDPW, and the Planning Department for review and approval. ***Mitigation Measure MM-TR-134 (Cathedral Hill)***					

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CPMC shall ensure that the transit delay impact related to the Cathedral Hill Campus project on the 47-Van Ness is reduced to a less-than-significant level by financially compensating the SFMTA for the cost of providing the additional service needed to accommodate the project at proposed levels of service. The financial contribution shall be calculated and applied in a manner that is consistent with the SFMTA cost/scheduling model. The amount and schedule for payment and commitment to application of service needs shall be set forth in a Transit Mitigation Agreement between CPMC and SFMTA.	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to enter into Transit Mitigation Agreement regarding financial compensation to SFMTA for cost of providing service needed to accommodate project at proposed levels of service.	Project Sponsor and SFMTA	Considered complete when Transit Mitigation Agreement is final and signed by CPMC and SFMTA and payment is made.
Mitigation Measure MM-TR-137 (Cathedral Hill) CPMC shall ensure that the transit delay impact related to the Cathedral Hill Campus project on the 3-Jackson is reduced to a less-than-significant level by financially compensating the SFMTA for the cost of providing the service needed to accommodate the project at proposed levels of service. The financial contribution shall be calculated and applied in a manner that is consistent with the SFMTA cost/scheduling model. The amount and schedule for payment and commitment to application of service needs shall be set forth in a Transit Mitigation Agreement between CPMC and SFMTA.	Project Sponsor	Prior to issuance of grading or building permits.	Project Sponsor to enter into Transit Mitigation Agreement regarding financial compensation to SFMTA for cost of providing service needed to accommodate project at proposed levels of service.	Project Sponsor and SFMTA	Considered complete when Transit Mitigation Agreement is final and signed by CPMC and SFMTA and payment is made.
NOISE ***Mitigation Measure M-NO-N1a (Cathedral Hill)*** CPMC shall minimize the impacts of construction noise where feasible by implementing the measures listed below in accordance with the San Francisco Noise Control Ordinance. These measures shall be required in each contract agreed to between CPMC and a contractor under the LRDP and shall be applied to all projects and programs covered by the CPMC LRDP EIR. • Construction equipment shall be properly maintained in accordance	Project Sponsor/Construction Contractor(s)	During construction	Project Sponsor/Construction Contractor(s) to implement specified measures to minimize impacts of construction noise where feasible.	Project Sponsor/Construction Contractor(s); Department of Public Works (work within the public right-of-way); Department of Building	Considered complete upon receipt of final monitoring report at completion of construction.

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with manufacturers' specifications and shall be fitted with the best available noise suppression devices (e.g., mufflers, silencers, wraps). All hand-operated impact tools shall be shrouded or shielded, and all intake and exhaust ports on power equipment shall be muffled or shielded. • Construction equipment shall not idle for extended periods (no more than 5 minutes) of time near noise-sensitive receptors. • Stationary equipment (compressors, generators, and cement mixers) shall be located as far from sensitive receptors as feasible. Sound attenuating devices shall be placed adjacent to individual pieces of stationary source equipment located within 100 feet of sensitive receptors during noisy operations to prevent line-of-sight to such receptors, where feasible. • Temporary barriers (noise blankets or wood paneling) shall be placed around the construction site parcels and, to the extent feasible, they should break the line of sight from noise sensitive receptors to construction activities. If the use of heavy construction equipment is occurring on-site within 110 feet of an adjacent sensitive receptor, the temporary barrier located between source and sensitive receptor shall be no less than 10 feet in height. For all other distances greater than 110 feet from source to receptor, the temporary noise barrier shall be no less than 8 feet in height. For temporary sound blankets, the material shall be weather and abuse resistant, and shall exhibit superior hanging and tear strength with a surface weight of at least 1 pound per square foot. Procedures for the placement, orientation, size, and density of acoustical barriers shall be reviewed and approved by a qualified acoustical consultant. When temporary barrier units are joined together, the mating surfaces shall be flush with each other. Gaps between barrier units, and between the bottom edge of the barrier panels and the ground, shall be closed with material that would completely close the gaps, and would be dense enough to attenuate noise.				Inspection (work within CPMC-owned project sites).	
Mitigation Measure M-NO-N1b (Cathedral Hill) A community liaison shall be designated by CPMC. The community liaison shall be available to manage and respond to noise complaints from	Project Sponsor	During demolition, excavation, and	Project Sponsor to retain community liaison who will (1)	Department of Public Works (work within the	Considered complete upon receipt of final

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nearby sensitive receptors. The community liaison shall keep a log of all relevant and appropriate complaints and responses to those complaints through a website that can be accessed and viewed by the public. The log or a copy of the log shall also be available upon request to any affected citizen or their representative. The community liaison shall produce a weekly and six-week schedule of construction operations and shall provide this schedule in advance and upon request to any affected citizens or their representatives. Contact information for the community liaison shall be posted in a location that is clearly visible to the nearby receptors most likely to be disturbed. The community liaison shall be responsible for ensuring that reoccurring noise complaints are evaluated by a qualified acoustical consultant to determine and implement appropriate noise control measures that would be taken to meet applicable standards. The community liaison shall contact nearby noise-sensitive receptors and shall advise them of the construction schedule.		construction	manage and respond to noise complaints (2) log all complains and responses (3) prepare weekly and six-week schedule of construction operations and (4) ensure that reoccurring noise complaints are evaluated by qualified acoustical consultant to determine and implement appropriate noise control measures.	public right-of-way); Department of Building Inspection (work within CPMC-owned project sites); Project Sponsor and ERO	monitoring report at completion of construction.
Mitigation Measure M-NO-N1c (Cathedral Hill) A construction noise management plan shall be prepared by a qualified acoustical consultant. The noise management plan shall include, but shall not be limited to, the following tasks: • A detailed evaluation of nighttime tunnel construction at noise-sensitive receptors shall be prepared. The evaluation shall include calculations of construction noise levels based on detailed information regarding construction methods and duration. If it is determined that construction noise levels would exceed City noise ordinance standards, a qualified acoustical consultant shall review and approve additional mitigation measures to minimize prolonged sleep disturbance (e.g., using acoustical treatments to existing buildings, such as upgraded weatherstripping or determining the feasibility of constructing a cantilevered overhang along temporary barriers around the construction area to reduce construction noise levels at elevated receptors).Long-term (24-hour) and short-term (15-minute) noise measurements shall be conducted at ground level and elevated locations to represent the noise exposure of noise-	Project Sponsor/Acoustical Consultant	Prior to and during demolition, excavation, and construction	Project Sponsor to retain Acoustical Consultant to prepare and implement a construction noise management plan.	Project Sponsor/Acoustical Consultant and ERO.	Considered complete upon receipt of final monitoring report at completion of construction.

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sensitive receptors adjacent to the construction area. The measurements shall be conducted for at least 1 week during the onset of each of the following major phases of construction: demolition, excavation, and structural steel erection. Measurements shall be conducted during both daytime and nighttime hours of construction, with observations and recordings to document combined noise sources and maximum noise levels of individual pieces of equipment. If noise levels from construction activities are found to exceed City standards (daytime [80 dB at a distance of 100 feet] or nighttime [5 dB over ambient]) and result in complaints that are lodged with the community liaison, additional noise mitigation measures shall be identified. These measures shall be prepared by the qualified acoustical consultant. These measures shall identify the noise level exceedance created by construction activities and identify the anticipated noise level reduction with implementation of mitigation. These measures may include, among other things, additional temporary noise barriers at either the source or the receptor; operational restrictions on construction hours or on heavy construction equipment where feasible; temporary enclosures to shield receptors from the continuous engine noise of delivery trucks during offloads (e.g., concrete pump trucks during foundation work); or lining temporary noise barriers with sound absorbing materials. Measures such as these have been demonstrated to be effective in keeping construction noise levels within 80 dB at a distance of 100 feet.					
Mitigation Measure M-NO-N1 (Davies [near-term]) This mitigation measure is similar to Mitigation Measures M-NO-N1a, M-NO-N1b, and M-NO-N1c for the Cathedral Hill Campus but differs in that evaluation of interior construction noise levels at on-site receptors by a qualified acoustical consultant shall be required if the number of complaints to the community liaison becomes excessive and warrants further action.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c. ERO shall review logs provided by community liaison to determine whether number of complaints warrant further action.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.
Mitigation Measure M-NO-N1 (St. Luke's Campus with or without Variants)					

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Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
This mitigation measure is identical to Mitigation Measures M-NO-N1a, M-NO-N1b, and M-NO-N1c for the Cathedral Hill Campus.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.	See M-NO-N1a, M-NO-N1b, and M-NO-N1c.
Mitigation Measure M-NO-N3a (Cathedral Hill Campus) CPMC shall retain the services of a qualified acoustical consultant to measure the sound levels of operating exterior equipment within 30 days after installation. If exterior equipment meets daytime and nighttime sound level standards, no further action is required. If exterior equipment does not meet sound level standards, CPMC shall replace and/or redesign the exterior equipment to meet the City's noise standards. Results of the measurements shall be provided to the Hospital Facilities Management/Engineering and the City to show compliance with standards.	Project Sponsor/Acoustical Consultant	Measurement of sound levels within 30 days after installation of exterior equipment.	Project Sponsor/Acoustical Consultant to measure sound levels of exterior equipment and replace and/or redesign if it exceeds sound level standards.	Project Sponsor/Acoustical Consultant, Hospital Facilities Management/Engineering, and Department of Building Inspection (DBI).	Considered complete upon DBI review and approval of compliance with standards.
Mitigation Measure M-NO-N3b (Cathedral Hill Campus with or without Variants) Bay doors [forthe loading dock on Franklin Street] shall be required to be closed during Aduromed operations, to the extent feasible.	Project Sponsor	During operations.	Project Sponsor to close bay doors during Aduromed operations.	Project Sponsor; ERO	Considered ongoing during project operations.
Mitigation Measure M-NO-N3c (Cathedral Hill Campus with or without Variants) In the event that it is determined to be infeasible for bay doors to be closed during Aduromed operation, a noise-absorptive material shall be applied (prior to initiation of Aduromed operations with open bay doors) to the entire ceiling structure of the loading dock area to reduce noise levels from Aduromed operations. The material shall have a minimum Noise Reduction Coefficient of 0.75.	Project Sponsor	Prior to operation.	Project Sponsor to apply noise-absorptive material to entire ceiling structure of loading area.	Project Sponsor and DBI.	Considered complete upon DBI's review and acceptance of noise absorptive material.
Mitigation Measure M-NO-N3d (Cathedral Hill Campus with or without Variants) Noise attenuators shall be included on kitchen exhaust fans located on Level 5 of the Cathedral Hill Hospital adjacent to patient rooms, or the sound power levels of the exhaust fans shall be limited. Hospital Facilities Management/Engineering shall review the effectiveness of attenuators.	Project Sponsor	Prior to operation.	Project Sponsor to install noise attenuators on kitchen exhaust fans on Level 5 of Cathedral Hill Hospital.	Project Sponsor and Hospital Facilities Management/Engineering; OSHPD (interior noise standards within the hospital are governed by	Considered complete upon ERO confirmation of issuance of OSHPD permit. .

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				OSHPD standards). ERO shall review to confirm issuance of a duly reviewed OSHPD permit.	
Mitigation Measure M-NO-N3e (Cathedral Hill Campus) Delivery of oxygen to the proposed Cathedral Hill Campus shall not be scheduled during hours when church activities are typically taking place. Communication shall be established between the adjacent churches and CPMC, and a mutually acceptable time for delivery of oxygen shall be determined.	Project Sponsor	During operations.	Project Sponsor to establish communication between churches adjacent to the oxygen delivery area to determine acceptable time for delivery.	Project Sponsor; ERO	Considered ongoing during project operations.
Mitigation Measure M-NO-N3 (Davies [near-term]) CPMC shall retain the services of a qualified acoustical consultant to conduct an additional site-specific noise study to evaluate and establish the appropriate ambient noise levels at the Davies Campus for purposes of a detailed HVAC and emergency generator noise reduction analysis. The recommendations of the acoustical consultant shall include specific equipment design and operations measures to reduce HVAC and emergency generator noise to acceptable levels for exterior and interior noise levels as specified in the San Francisco Noise Control Ordinance.	Project Sponsor/Acoustical Consultant	Prior to operation.	Project Sponsor to retain Acoustical Consultant to conduct an additional site-specific noise study at the Davies Campus.	Project Sponsor and ERO.	Considered complete upon finding by ERO that site-specific noise study finalized and recommendation is implemented.
Mitigation Measure M-NO-N3 (St. Luke's Campus) This mitigation measure is identical to Mitigation Measure M-NO-N3 for the Davies Campus and Mitigation Measure M-NO-N3a for the Cathedral Hill Campus.	See M-NO-N3 for Davies and M-NO-N3a for Cathedral Hill.	See M-NO-N3 for Davies and M-NO-N3a for Cathedral Hill.	See M-NO-N3 for Daviesand M-NO-N3a for Cathedral Hill.	See M-NO-N3 for Davies and M-NO-N3a for Cathedral Hill.	See M-NO-N3 for Davies and M-NO-N3a for Cathedral Hill.
Mitigation Measure M-NO-N4 (Cathedral Hill Campus) CPMC shall obtain the services of a qualified acoustical consultant to perform a detailed interior-noise analysis and develop noise-insulating features for the habitable interior spaces of the proposed Cathedral Hill Hospital that would reduce the interior traffic-noise level inside the hospital to 45-dB L_{dn}. Interior spaces of the hospital shall be designed to	Project Sponsor/Acoustical Consultant	Prior to building construction.	Project Sponsor/Acoustical Consultant to perform detailed interior-noise analysis of	Project Sponsor/Acoustical Consultant and OSHPD (interior noise standards within the hospital	Considered complete upon ERO's confirmation of an OSHPD approved permit

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include insulating features (e.g., laminated glass, acoustical insulation, and/or acoustical sealant) that would reduce interior noise levels to 45 dB L_{dn} or lower.			Cathedral Hill Hospital and incorporate noise-insulating features in final design plans.	are governed by OSHPD standards). ERO shall review to confirm issuance of a duly reviewed OSHPD permit.	for design that includes noise-insulating features.
Mitigation Measure M-NO-N4 (St. Luke's Campus)					
CPMC shall obtain the services of a qualified acoustical consultant to perform a detailed interior-noise analysis and develop noise-insulating features for the habitable interior spaces of the proposed St. Luke's Replacement Hospital that would reduce the interior traffic-noise level inside the hospital to 45-dB L_{dn}. Interior spaces of the hospital shall be designed to include insulating features (e.g., laminated glass, acoustical insulation, and/or acoustical sealant) that would reduce interior noise levels to 45 dB L_{dn} or lower.	Project Sponsor/Acoustical Consultant	Prior to building construction.	Project Sponsor/Acoustical Consultant to perform detailed interior-noise analysis of St. Luke's Replacement Hospital and incorporate noise-insulating features in final design plans	Project Sponsor/Acoustical Consultant and OSHPD (interior noise standards within the hospital are governed by OSHPD standards). ERO shall review to confirm issuance of a duly reviewed OSHPD permit.	Considered complete upon ERO's confirmation of an OSHPD approved permit for design that includes noise-insulating features
Mitigation Measure M-NO-N5 (Cathedral Hill, Davies [near-term], St. Luke's Campuses)					
CPMC shall minimize the impacts of construction noise and vibration where feasible by implementing the measures listed below. These measures shall be required in each contract agreed to between CPMC and a contractor under the LRDP and shall apply to all projects and programs covered by this EIR. Construction equipment generating the highest noise and vibration levels (vibratory rollers) shall operate at the maximum distance feasible from sensitive receptors. Vibratory rollers shall operate during the daytime hours only to ensure that sleep is not disrupted at sensitive receptors near the construction area. A community liaison shall be available to respond to vibration complaints from nearby sensitive receptors. A community liaison shall be designated. Contact information for the community liaison shall be	Project Sponsor/Construction Contractor(s)/Acoustical Consultant	During demolition, excavation, and construction	Project Sponsor/Construction Contractor(s) to (1) implement measures to reduce construction noise and vibration impacts and (2) retain community liaison to response to vibration complaints. Project Sponsor to retain Acoustical Consultant to prepare and	Project Sponsor/Construction Contractor(s)/Acoustical Consultant and ERO.	Considered complete upon ERO's approval of vibration monitoring plan and receipt of final monitoring report at completion of construction.

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
posted in a conspicuous location so that it is clearly visible to the nearby receptors most likely to be disturbed. The community liaison shall manage complaints resulting from construction vibration. Reoccurring disturbances shall be evaluated by a qualified acoustical consultant to ensure compliance with applicable standards. The community liaison shall contact nearby noise-sensitive receptors and shall advise them of the construction schedule. To further address the nuisance impact of project construction, a construction vibration management plan shall be prepared by a qualified acoustical consultant retained by CPMC. The vibration management plan shall include but shall not be limited to the following tasks: • A community liaison shall be designated. This person's contact information shall be posted in a location near the project site that it is clearly visible to the nearby receptors most likely to be disturbed. The community liaison shall manage complaints and concerns resulting from activities that cause vibration. The severity of the vibration concern shall be assessed by the community liaison and, if necessary, evaluated by a qualified noise and vibration control consultant. • The preexisting condition of all buildings within a 50-foot radius and historical buildings within the immediate vicinity of proposed construction activities shall be recorded in the form of a preconstruction survey. The preconstruction survey shall determine conditions that exist before construction begins and shall be used to evaluate damage caused by construction activities. Fixtures and finishes within a 50-foot radius of construction activities susceptible to damage shall be documented (photographically and in writing) before construction. All buildings damaged shall be repaired to their preexisting conditions. • As part of the vibration management plan, vibration levels shall be monitored at the nearest interior location of adjacent uses, including Daniel Burnham Court, containing vibration sensitive equipment to monitor potential impacts from the project site. In the event that measured vibration levels exceed 65 VdB and disturb the operation of sensitive medical equipment, additional			implement vibration management plan.		

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
measures shall be implemented to the extent necessary and feasible, including restriction of construction activities, coordination with equipment operators, and/or installation of isolation equipment.					
AIR QUALITY					
Mitigation Measure M-AQ-N1a (Cathedral Hill, Davies [near-term], St. Luke's)					
The following mitigation measures shall be implemented during construction activities to avoid short-term significant impacts to air quality: **BAAQMD Basic Control Measures** • Water all active construction areas at least twice daily. • Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least 2 feet of freeboard. • Pave, apply water three times daily, or apply (nontoxic) soil stabilizer on all unpaved access roads, parking areas, and staging areas at construction sites. • Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at construction sites. • Sweep street daily (with water sweepers) if visible soil material is carried into adjacent public streets. **Optional Control Measures** • Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site. • Install wind breaks, or plant trees/vegetative wind breaks at windward sides of construction areas. • Suspend excavation and grading activity when winds (instantaneous gusts) exceed 20 mph. • Limit the area subject to excavation, grading, and other construction activities at any one time.	Project Sponsor/Construction Contractor(s)	During demolition, excavation, and construction.	Construction Contractor to implement control measures.	Project Sponsor and ERO.	Considered complete upon receipt of final monitoring report at completion of construction.

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Additional Construction Mitigation Measures • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered twice daily. • All haul trucks transporting soil, sand, or other loose material off-site shall be covered. • All visible mud or dirt trackout onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. • All vehicle speeds on unpaved roads shall be limited to 15 mph. • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. • Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measures, Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. • Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The air district's phone number shall also be visible to ensure compliance with applicable regulations.					
Mitigation Measure M-AQ-N1b (Cathedral Hill, Davies [near-term], St. Luke's) To reduce exhaust emissions of ROG, NOX, PM10, and PM2.5 by construction equipment at the CPMC campuses, CPMC and its	Project Sponsor/Construction Contractor(s)	During demolition, excavation, and	Construction Contractor(s) to implement control	Project Sponsor and ERO.	Considered complete upon receipt of final

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construction contractor shall implement the following BAAQMD-recommended control measures during construction in both the near term and the long term: • Idling times shall be minimized, either by shutting equipment off when not in use or by reducing the maximum idling time to 2 minutes, to the extent feasible. Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with the manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition before operation.		construction.	measures.		monitoring report at completion of construction.
Mitigation Measure M-AQ-N2 (Cathedral Hill Campus) To reduce risk associated with exhaust emissions of DPM by construction equipment during construction of the Cathedral Hill Campus and all other LRDP sites, CPMC and its construction contractor shall implement the following BAAQMD-recommended control measures during construction: • Where sufficient electricity is available from the PG&E power grid, electric power shall be supplied by a temporary power connection to the grid, provided by PG&E. Where sufficient electricity to meet short-term electrical power needs for specialized equipment is not available from the PG&E power grid, non-diesel or diesel generators with Tier 4 engines (or equivalent) shall be used. • During any construction phase for near-term projects, at least half of each of the following equipment types shall be equipped with Level 3-verified diesel emission controls (VDECs): backhoes, concrete boom pumps, concrete trailer pumps, concrete placing booms, dozers, excavators, shoring drill rigs, soil mix drill rigs, and soldier pile rigs. If only one unit of the above equipment types is required, that unit shall have Level 3 VDECs retrofits. • For long-term projects, which are presumed to begin when Tier 4 equipment would be widely available, all diesel	Project Sponsor/Construction Contractor(s)	During demolition, excavation, and construction.	Construction Contractor(s) to implement control measures.	Project Sponsor and ERO.	Considered complete upon receipt of final monitoring report at completion of construction.

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
equipment of all types shall meet Tier 4 standards.					
Mitigation Measure M-AQ-N8a (Cathedral Hill, Davies [near-term], St. Luke's) This mitigation measure is identical to Mitigation Measure M-AQ-N1a, above.	See M-AQ-N1a	See M-AQ-N1a	See M-AQ-N1a	See M-AQ-N1a	See M-AQ-N1a
Mitigation Measure M-AQ-N8b (Cathedral Hill, Davies [near-term], St. Luke's) This mitigation measure is identical to Mitigation Measure M-AQ-N1b, above.	See M-AQ-N1b	See M-AQ-N1b	See M-AQ-N1b	See M-AQ-N1b	See M-AQ-N1b
Mitigation Measure M-AQ-N9 (Cathedral Hill, Davies [near-term], St. Luke's) CPMC shall implement Mitigation Measure M-AQ-N1a and Mitigation Measure M-AQ-N2, discussed above, to reduce emissions of criteria pollutants from construction equipment exhaust.	See M-AQ-N1a and M-AQ-N2	See M-AQ-N1a and M-AQ-N2	See M-AQ-N1a and M-AQ-N2	See M-AQ-N1a and M-AQ-N2	See M-AQ-N1a and M-AQ-N2
Mitigation Measure M-AQ-N10a (Cathedral Hill Campus) This mitigation measure is identical to Mitigation Measure M-AQ-N2, above.	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2
Mitigation Measure M-AQ-N10b (Davies Campus [near-term]) This mitigation measure is identical to Mitigation Measure M-AQ-N2, above.	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2
Mitigation Measure M-AQ-N10c (St. Luke's Campus) This mitigation measure is identical to Mitigation Measure M-AQ-N2, above.	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2	See M-AQ-N2
PUBLIC SERVICES					
Mitigation Measure M-PS-N2 (Cathedral Hill Campus) This mitigation measure is identical to Mitigation Measure MM-TR-55 for Transportation and Circulation, above.	See M-TR-55	See M-TR-55	See M-TR-55	See M-TR-55	See M-TR-55
BIOLOGICAL RESOURCES					
Mitigation Measure M-BI-N1 (Cathedral Hill) Before any demolition or construction activities occurring during the nesting season (January 15 through August 15) that involve removal of	Project Sponsor/Qualified	Pre-consruction surveys prior to	Pre-construction surveys for nesting	Project Sponsor/Biologist	Considered complete upon

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trees or shrubs, CPMC shall conduct a preconstruction survey for nesting birds at each of its medical campuses. The surveys shall be conducted by a qualified wildlife biologist no sooner than 14 days before the start of removal of trees and shrubs. The survey results shall remain valid for 21 days after the survey; therefore, if vegetation removal is not started within 21 days of the survey, another survey shall be required. The area surveyed shall include the construction site and the staging area for the tree or shrub removal. If no nests are present, tree removal and construction may commence. If active nests are located during the preconstruction bird nesting survey, CPMC shall contact DFG for guidance on obtaining and complying with Section 1801of the California Fish and Game Code, which may include setting up and maintaining a line-of-sight buffer area around the active nest and prohibiting construction activities within the buffer; modifying construction activities; and/or removing or relocating active nests.	Biologist	any construction activities during nesting season. If active nests are found, actions to protect nesting birds to be implemented during construction.	birds to be conducted by a qualified biologist. If an active nest is found close to construction area, CPMC shall contact the California Department of Fish and Game and obtain and comply with a Fish and Game Code Section 1801 agreement concerning the implementation of actions to protect nesting birds..	and ERO	ERO approval of report by biologist and any actions taken to protect nesting birds pursuant to Section 1801 agreement, if necessary.
Mitigation Measure M-BI-N1 (Davies [near-term]) This mitigation measure is identical to Mitigation Measure M-BI-N1 for the Cathedral Hill Campus, above.	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill
Mitigation Measure M-BI-N1 (St. Luke's with or without project variants)) This mitigation measure is identical to Mitigation Measure M-BI-N1 for the Cathedral Hill Campus, above.	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill	See M-BI-N1 for Cathedral Hill
GEOLOGY AND SOILS					
Mitigation Measure M-GE-N4 (Cathedral Hill, Davies [near-term], St. Luke's) CPMC shall implement Mitigation Measure M-HY-N3, as described below.	See M-HY-N3	See M-HY-N3	See M-HY-N3	See M-HY-N3	See M-HY-N3

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Mitigation Measure M-GE-N6 (St. Luke's) The design level geotechnical report for the MOB/Expansion Building, the proposed utility route, and the sewer variant at the St. Luke's Campus shall include an excavation and dewatering program. The program shall include measures to monitor the improvements adjacent to construction for vertical movement. The monitoring shall include an optical survey and installation of inclinometers and groundwater observation wells. Groundwater levels outside the excavation shall be monitored through wells while dewatering is in progress. Should the magnitude of settlement or groundwater drawdown be deemed potentially damaging to surrounding improvements by a licensed engineer, the groundwater outside the excavation shall be recharged through wells or the dewatering program altered to reduce drawdown to an acceptable level.	Project Sponsor	Preparation of excavation and watering program orior to issuance of grading or building permits. Implementation of program during construction.	Project Sponsor to prepare design level geotechnical report for MOB/Expansion Building and monitor construction and, if needed, recharge groundwater through wells or alter dewatering to reduce drawdown.	Project Sponsor/Construction Contractor(s).; ERO	Considered complete upon ERO's approval of geotechnical studies and upon receipt of final monitoring report at completion of construction.
HYDROLOGY AND WATER QUALITY ***Mitigation Measure M-HY-N2 (Cathedral Hill)*** To manage peak flow and discharge volume, CPMC shall prepare and implement a Stormwater Control Plan for each of the near-term projects under the LRDP, focusing on LID strategies and BMPs. In implementing the LRDP, CPMC shall comply with all policies and regulations adopted by the City, including SFPUC's Stormwater Design Guidelines, which require a 25% decrease in the rate and volume of stormwater runoff from the 2-year, 24-hour design storm. Therefore, the design-level drainage plans shall demonstrate that, at a minimum, there will be a 25% decrease in the rate and volume of stormwater runoff to the combined sewer for the 2-year, 24-hour storm as compared to existing conditions. This will be achieved by using LID stormwater BMPs which may include, but not limited to: • green roofs, • cisterns, • bioswales, • bioretention basins, • planter boxes,	Project Sponsor	Preparation of Stormwater Control Plan pior to first permit for construction, as determined by the Planning Department. Implementation of LID strategies and BMPs by incorporating into project during construction.	Project Sponsor to prepare and implement a Stormwater Control Plan.	Project Sponsor , ERO, and SFPUC	Considered complete upon approval of final design.

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• blue roofs, • dry wells, and • other detention/storage facilities. In addition, the final design team for the development project shall review and incorporate as many concepts as practicable from *Start at the Source: Design Guidance Manual for Stormwater Quality Protection.* SFPUC shall conduct project design review before the City's project approval occurs, to ensure that the impacts of the LRDP on the combined sewer system have been fully mitigated.					
Mitigation Measure M-HY-N2 (Davies [near-term]) This mitigation measure is identical to Mitigation Measure M-HY-N2 for the Cathedral Hill Campus, above.	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill
Mitigation Measure M-HY-N2 (St. Luke's) This mitigation measure is identical to Mitigation Measure M-HY-N2 for the Cathedral Hill Campus, above.	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill	See M-HY-N2 for Cathedral Hill
Mitigation Measure M-HY-N3 (Cathedral Hill, Davies [near-term], St. Luke's) In compliance with Article 4.1 of the San Francisco Public Works Code and the City's Construction Site Water Pollution Prevention Program, CPMC shall submit a site-specific SWPPP to SFPUC for approval before initiating construction activities in areas draining to the combined sewer system. SFPUC requires implementation of appropriate BMPs from the *California Stormwater Quality Association Stormwater BMP Handbook—Construction*. In accordance with SFPUC's requirements, the SWPPP shall include the following elements: *An erosion and sediment control plan*. The plan shall present a site map illustrating the BMPs that will be used to minimize on-site erosion and the sediment discharge into the combined sewer system, and shall provide a narrative description of those BMPs. Appropriate BMPs for	Project Sponsor/Construction Contractor(s)	Approval of SWPPP prior to issuance of grading or building permits. Implementation of SWPP during construction.	Project Sponsor/Construction Contractor(s) to prepare and implement SWPPP.	Project Sponsor/Construction Contractor(s), SFPUC, and ERO	Considered complete upon receipt of final monitoring report at completion of construction.

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the erosion and sediment control plan may include the following practices: • Scheduling—Develop a schedule that includes sequencing of construction activities with the implementation of appropriate BMPs. Perform construction activities and control practices in accordance with the planned schedule. Schedule work to minimize soil-disturbing activities during the rainy season. Schedule major grading operations for the dry season when practical. Monitor the weather forecast for rainfall and adjust the schedule as appropriate. • Erosion control—Cover exposed excavated walls to reduce their exposure to rainfall. Preserve existing vegetation where feasible; apply mulch or hydroseed areas until permanent stabilization is established; and use soil binders, geotextiles and mats, earth dikes and drainage swales, velocity dissipation devices, slope drains, or polyacrylamide to protect soil from erosion. • Wind erosion—Apply water or other dust palliatives to prevent dust nuisance; prevent overwatering that can cause erosion. Alternatively, cover small stockpiles or areas that remain inactive for 7 or more days. • Sediment control—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 LID measures to minimize the discharge of sediment. Employ street sweeping to remove sediment from streets. Utilize treatment trains where feasible. Cover all stockpiled soil until it is needed. Cover all soil in haul trucks. • Tracking controls—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. Install a tire wash area to remove sediment from tires and under carriages and contain all sediments in the wash area.					

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule

- Litter control—Remove litter at least once daily from the construction site. Dispose of packing materials immediately in an enclosed container.

- *Non-stormwater management BMPs*. These BMPs may include water conservation practices, dewatering practices that minimize sediment discharges, and BMPs for all of the following:
  - paving and grinding activities;
  - identification of illicit connections and illegal dumping;
  - irrigation and other planned or unplanned discharges of potable water;
  - vehicle and equipment cleaning, fueling, and maintenance;
  - concrete curing and finishing;
  - temporary batch plants;
  - implementation of shoreline improvements; and
  - work over water.

  Discharges from dewatering activities shall comply with the requirements of SFPUC's Batch Wastewater Discharge Permit that regulate influent concentrations for various constituents.

- *Waste management BMPs*. These BMPs shall be implemented for:
  - material delivery, use, and storage;
  - stockpile management;
  - spill prevention and control; and
  - management of solid and liquid waste, hazardous waste, contaminated soil, concrete waste, and septic/sanitary waste.

- *BMP inspection, maintenance, and repair requirements.* All BMPs shall be inspected on a regular basis to confirm proper installation and function. BMPs shall be inspected daily during storms, and BMPs that have failed shall be immediately repaired or replaced.

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Sufficient devices and materials (e.g., silt fence, coir rolls, erosion blankets) shall be provided throughout project construction to enable immediate corrective action for failed BMPs. Required BMP maintenance related to a storm event shall be completed within 48 hours of the storm event. The SWPPP shall include checklists that document when the inspections occurred, the results of the inspection, required corrective measures, and when corrective measures were implemented.					
The SWPPP shall demonstrate how treatment control measures (e.g., silt fences, sediment basins, sediment traps, check dams, vegetated swales, infiltration trenches) targeting the project-specific contaminants including sediment, metals, oil and grease, trash and debris, and oxygen-demanding substances would be incorporated into the project. In addition, the SWPPP shall demonstrate that the project has the land area available to support the proposed BMP facilities sized for the required water quality design storm.					
Construction personnel shall receive training on the SWPPP and implementation of BMPs.					
HAZARDS AND HAZARDOUS MATERIALS					
Mitigation Measure M-HZ-N1a (Cathedral Hill, Davies [near-term], St. Luke's)					
Step 1: Preparation of a Site Mitigation Plan					
Before the issuance of site, building, or other permits from the City for development activities involving subsurface disturbance, CPMC shall submit the previously prepared environmental contingency plans to SFDPH for review and approval as site mitigation plans (SMPs) for the Cathedral Hill, Davies, and St. Luke's Campuses. The SMPs shall include the following measures and procedures: • All soil shall be sampled for a suite of common chemicals required by landfills and redevelopment sites accepting imported fill from other sites to provide a chemical profile and identify the soil worker safety and disposal classification. Sample analytical results shall be submitted to SFDPH for review. • Fill shall be sampled and analyzed before excavation to allow	Project Sponsor	Approval of SMPs prior to issuance of site, building, or other permits. Implementation of measures and procedures identified in SMPs during excavation and grading phases of construction.	Project Sponsor/Construction Contractor(s) to prepare a SMP and submit to DPH and Planning Department.	Project Sponsor and DPH	Considered complete with submittal of the closure certification report to DPH and San Francisco Planning Department.

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excavation, loading, and transportation off-site without stockpiling, which would minimize soil handling. • If soil encountered during excavation exhibits the presence of liquid hydrocarbons (such as oil), strong odors, or staining suggesting the presence of hazardous materials, work shall be halted, the area shall be covered in plastic sheeting, stockpiles shall be segregated and covered, and samples shall be collected from the base and walls of the excavation. Once sampling results have returned, the soil shall be treated in accordance with the above outlined procedures. • If groundwater is present and in a volume requiring dewatering, a dewatering contractor shall be retained to design and install a dewatering system to remove and discharge the water to the sanitary sewer system during excavation and construction. The dewatering contractor shall obtain a batch groundwater discharge permit from SFPUC. A groundwater sample shall be collected and analyzed for parameters established by SFPUC before any discharge of groundwater into the sewer system. If required by SFPUC, additional groundwater samples shall be collected monthly from the discharged water for parameters stipulated by SFPUC. If analytes in the groundwater exceed the established SFPUC discharge limits, the groundwater shall be stored in containers and properly treated before discharge. The treatment system, if needed, shall be designed based on the chemicals present in the groundwater. • A licensed tank removal contractor shall be retained to properly remove and dispose of known tanks in accordance with all current regulations and the site-specific and tank-specific procedures outlined in the ECPs for each campus. All the necessary permits from SFFD and SFDPH shall be obtained, and all notifications to BAAQMD shall be made before the tank is removed. The health and safety plan shall be followed, and air monitoring shall be performed during all tank removal activities. If soil staining, odor, and/or elevated organic vapor analyzer readings are observed during tank removal, the affected soil shall be placed on and covered with plastic tarpaulins, separate from any unaffected soil removed from					

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
above the tank. All soil sampling and analysis for tank closure shall be performed in accordance with the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, dated August 10, 1990, and any additional SFFD and SFDPH requirements. Any additional measures that the SFDPH determines are required beyond those already identified in the ECPs shall also be incorporated into the SPMs and implemented by CPMC. A copy of the SMPs shall be submitted to the Planning Department to become part of the case file. Step 2: Handling, Hauling, and Disposal of Contaminated Soils (a) Specific work practices: If, based on the results of the soil tests conducted, the SFDPH determines that the soils on the campuses are contaminated at or above potentially hazardous levels, the construction contractor shall be alert for the presence of such soils during excavation and other construction activities on the campuses (detected through soil odor, color, and texture) and shall be prepared to handle, profile (i.e., characterize), and dispose of such soils appropriately (i.e., as dictated by federal, state, and local regulations) when such soils are encountered on the campuses. If excavated materials contain over one percent friable asbestos, they shall be treated as hazardous waste, and shall be transported and disposed of in accordance with applicable federal and state regulations. (b) Dust suppression: Soils exposed during excavation for site preparation and project construction activities shall be kept moist throughout the time they are exposed, both during and after construction work hours. (c) Surface water runoff control: Where soils are stockpiled, plastic sheeting shall be used to create an impermeable liner, both beneath and on top of the soils, with a berm to contain any potential surface water runoff from the soil stockpiles during inclement weather and from air. (d) Soils replacement: If necessary, clean fill or other suitable material(s) shall be used to bring portions of the project site, where contaminated soils have been excavated and removed, up	Project Sponsor/Construction Contractor(s)	During demolition, excavation, and construction.	Project Sponsor/Construction Contractor(s) to handle, haul and dispose contaminated soils as specified in mitigation measure.	Project Sponsor/Construction Contractor(s) and DPH.	Considered complete with submittal of the closure certification report to DPH and San Francisco Planning Department.

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Adopted Mitigation Measures	Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
to construction grade. (e) Hauling and disposal: Contaminated soils shall be hauled off the project site by waste hauling trucks appropriately certified with the State of California and adequately covered to prevent dispersion of the soils during transit, and shall be disposed of at a permitted hazardous waste disposal facility registered with the State of California. Nonhazardous soil shall be sent to other sites to be used as import fill where accepted or shall be transported and disposed of at a licensed Class II or Class III landfill, as appropriate. Soil classified as California hazardous waste shall be transported either out of state to an appropriate licensed facility or to a Class I facility in California. Soil classified as RCRA hazardous waste shall be transported to a Class I landfill facility in California.					
Step 3: Preparation of Closure/Certification Report After construction activities are completed, the project sponsor shall prepare and submit a closure/certification report to the SFDPH for review and approval. The closure/certification report shall include the mitigation measures in the SMPs for handling and removing contaminated soils from the project site, whether the construction contractor modified any of these mitigation measures, and how and why the construction contractor modified those mitigation measures.	Project Sponsor	After construction activities are completed.	Project Sponsor to prepare and submit a closure/certification report to DPH.	Project Sponsor and DPH.	Considered complete upon receipt and approval by DPH of final closure/certification report.
Mitigation Measure M-HZ-N1b Cathedral Hill, Davies [near-term], St. Luke's): Preparation of Unknown Contingency Plan Before the issuance of site, building, or other permit from the city for development activities involving subsurface disturbance, CPMC shall prepare and submit to SFDPH for approval a contingency plan to address unknown contaminants encountered during development activities. This plan, the conditions of which shall be incorporated into the first permit and any applicable permit thereafter, shall establish and describe procedures for implementing a contingency plan, including appropriate notification and site control procedures, in the event unanticipated subsurface hazards or hazardous material releases are discovered during construction. Control procedures shall include, but shall not be limited to, further investigation and, if necessary, remediation of such hazards or releases, including off-campus removal and disposal, containment, or	Project Sponsor	Approval of unknown contingency plan prior to issuance of site, building, or other permits. Implementation of measures and procedures identified in unknown contingency plan	Project Sponsor to prepare and submit a contingency plan to address unknown contaminants encountered during development activities to DPH.	Project Sponsor and DPH.	Considered complete upon approval of contingency plan by DPH and receipt of final monitoring report at completion of construction.

Adopted Mitigation Measures	Responsibility for Implementation	MONITORING AND REPORTING PROGRAM Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
treatment. In accordance with the procedures outlined in the ECPs, measures following the discovery of previously unidentified USTs or other subsurface facilities shall include, but shall not be limited to, the following: • Work at the location of the discovered tank shall be halted, the exposed portion of the tank shall be covered with plastic sheeting, and the area shall be secured while the tank and surrounding soil (if unvaulted) are evaluated. The site superintendent shall be notified, and an appropriate environmental professional shall be brought on-site to evaluate the nature, use, and extent of the tank. The contractor's health and safety plan shall be reviewed and revised, if necessary, and appropriately trained personnel (e.g., HAZWOPER trained) shall be mobilized to address the tank. If the tank is ruptured during discovery, the contractor, at the direction of the environmental professional, shall attempt to contain any contents that have been released to the soil. The top of the tank shall be uncovered to locate an access port, and the tank shall be opened to evaluate the contents. The tank shall be sounded to evaluate its size and the presence and amount of tank contents remaining (if any). A sample of the contents shall be collected, if possible. On determining the nature and use of the tank, the environmental professional and/or contractor shall notify BAAQMD, SFDPH, and SFFD. During all work performed in response to the presence of the tank, the air in the working area shall be monitored for volatile organic compounds, and the tank shall remain covered with the tarpaulin whenever access is not necessary. Tanks discovered in vaults in basements shall be removed after the building above has been demolished. All tanks shall be removed in accordance with the procedures described in the ECPs for the campuses. • If other subsurface facilities containing or associated with hazardous materials, such as oil pits, sumps associated with clarification or neutralization of liquid waste, piping associated with underground tanks, piping that may be composed of asbestos-containing material, and building drainage systems (e.g., waste lines, sewer laterals) are encountered during		during excavation and grading phases of construction.			

Adopted Mitigation Measures	MONITORING AND REPORTING PROGRAM Responsibility for Implementation	Mitigation Schedule	Mitigation Action	Monitoring/ Reporting Responsibility	Monitoring Schedule
demolition and excavation, work in the area shall be halted and the facility be covered in plastic sheeting. If a sump and/or vaults are identified during excavation activities, the facility shall be managed in the same manner as required for underground tanks. If drainage lines or piping are encountered, they shall be observed and evaluated to determine use and composition. If piping contains liquid wastes, these wastes shall be contained as completely as possible, transferred to secure containers, sampled, and subsequently disposed of off-site. If piping is composed of asbestos-containing materials, the material shall be removed, bagged, and disposed of appropriately. If piping is not composed of asbestos-containing materials, it shall be removed and subsequently sent off-site as scrap. Soil adjacent to and in the vicinity of the discovered facilities shall be examined, evaluated, and managed as described for other soils at the campuses.					
In the event unanticipated subsurface hazards or hazardous material releases are discovered during construction, the requirements of this unknown contingency plan shall be followed. The contingency plan shall be amended, as necessary, in the event new information becomes available that could affect the implementation of the plan.					
Mitigation Measure M-HZ-N4a (Cathedral Hill) This mitigation measure is identical to M-HZ-N1a for near-term impacts and requires the preparation of site mitigation plan (SMPs) for the near-term projects at the Cathedral Hill Campus.	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a
Mitigation Measure M-HZ-N4b (Cathedral Hill) This mitigation measure is identical to M-HZ-N1b for near-term impacts and requires the preparation of unknown contingency plans for the near-term projects at the Cathedral Hill Campus.	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b
Mitigation Measure M-HZ-N4c (Davies [near-term]) This mitigation measure is identical to M-HZ-N1a for near-term impacts and requires the preparation of site mitigation plan (SMPs) for the near-term projects at the Davies Campus.	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a

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Adopted Mitigation Measures	**Responsibility for Implementation**	**Mitigation Schedule**	**Mitigation Action**	**Monitoring/ Reporting Responsibility**	**Monitoring Schedule**
Mitigation Measure M-HZ-N4d (Davies [near-term])					
This mitigation measure is identical to M-HZ-N1b for near-term impacts and requires the preparation of unknown contingency plans for the near-term projects at the Davies Campus.	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b
Mitigation Measure M-HZ-N4e (St. Luke's)					
This mitigation measure is identical to M-HZ-N1a for near-term impacts and requires the preparation of site mitigation plan (SMPs) for the near-term projects at the St. Luke's Campus.	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a	See M-HZ-N1a
Mitigation Measure M-HZ-N4f (St. Luke's)					
This mitigation measure is identical to M-HZ-N1b for near-term impacts and requires the preparation of unknown contingency plans for the near-term projects at the St. Luke's Campus.	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b	See M-HZ-N1b

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