

Appendix A

Mitigation Monitoring and Reporting Program

MALIBU CIVIC CENTER WASTEWATER TREATMENT FACILITY PROJECT
MITIGATION MONITORING AND REPORTING PLAN

Impact Number	Impact Summary	Mitigation No.	Mitigation Measure (Exact Text)	Monitoring and Reporting Plan			
				Implementation and Reporting		Monitoring and Reporting Actions	Implementation Schedule - Design - Pre-Construction - During Construction - Operation
				Responsible Party	Review & Approval		
AESTHETICS							
A-2	Substantially damage scenic resources including trees, rock outcroppings, and historic buildings within a scenic highway	MM BIO-3	Refer to MM BIO-3 , below.				
BIOLOGICAL RESOURCES							
BIO-1	Substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations or by CDFW or USFWS	MM BIO-1	<p>MM BIO-1. To reduce impacts to special-status species and their habitats to a less than significant level, the following avoidance and minimization measures shall be implemented:</p> <ul style="list-style-type: none"> All work areas shall be approved by the Project Engineer in consultation with an approved biologist. No new areas of disturbance for lay down areas, parking, staging, or other support areas shall be developed. Previously disturbed areas will be utilized to support these work zones. Work areas shall be clearly marked in the field to prevent impacts outside of the designated work areas. 	City of Malibu Construction Consultant/Contractor	City of Malibu	<ol style="list-style-type: none"> Confirm that measure is in the construction specifications for the project Project Engineer to sign off on work areas Confirm that no new disturbed areas be created in support of work zones Verify that work areas are clearly marked 	<ol style="list-style-type: none"> Pre-Construction During Construction
		MM BIO-2	<p>MM BIO-2. The drilling contractor shall prepare a Fraction Mitigation Contingency Plan for the Malibu Creek crossing that would include, at a minimum, the following elements for the protection of biological resources: 1) design protocols shall require a geotechnical engineer or qualified geologist to make recommendations regarding the suitability of the formations to be bored to minimize the potential for the inadvertent release of drilling fluids into the creek; 2) definition of how such releases of drilling fluids would be detected in a timely manner; 3) identification of steps to be implemented in the event of a drilling fluid release; and 4) a reporting protocol to ensure that all appropriate notifications are made to agencies.</p> <p>NOT APPLICABLE TO THE MODIFIED PROJECT.</p>	City of Malibu Drilling contractor	City of Malibu	<ol style="list-style-type: none"> Confirm that measure is in the design protocols and construction specifications for the project Review and approve Fraction Mitigation Contingency Plan Verify that Malibu Creek Crossing is constructed in compliance with the Fraction Mitigation Contingency Plan 	<ol style="list-style-type: none"> Design Pre-Construction Construction
		MM BIO-3	<p>MM BIO-3. Within six months of any site preparation, construction, or other site disturbance associated with the Project, a focused bat roost habitat assessment shall be conducted. The assessment shall include the <u>PCH Pacific Coast Highway bridge, Cross Creek bridge, or County Waterline bridge depending on which bridge option is selected for PL-16</u>, and any mature trees occurring within 100 feet of any element of the Project construction of infrastructure, and trees proposed for removal. The bat maternity season (typically April 1-August 31) shall be avoided to the greatest extent feasible. If the maternity season cannot be avoided, then a focused bat survey, utilizing current ultrasonic technology, shall be conducted by a qualified biologist acceptable to the CDFW and the City. If active maternity roosts are identified, no work will continue in those areas until such time as the City authorizes re-initiation of</p>	City of Malibu Qualified Biologist	City of Malibu	<ol style="list-style-type: none"> Qualified biologist shall perform a focused bat roost habitat assessment City of Malibu approve construction schedule and timing If necessary, qualified biologist to conduct focused bat survey as specified in this measure City of Malibu to consult with CDFW regarding work near active maternity roosts 	<ol style="list-style-type: none"> Pre-Construction During Construction

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			the work in consultation with CDFW.			5. City of Malibu to approve re-initiation of work in such areas	
		MM BIO-4	MM BIO-4. A biological monitor, approved by the City, shall be present for all construction activities within ESHA and activities related to auguring activities at Malibu Creek or any other jurisdictional feature, or placing piping on the PCH- Pacific Coast Highway bridge or County Waterline Bridge over Malibu Creek. Within five days prior to any work being initiated at a work site for the first time, or in the event work is stopped at a given work site for more than five days and is re-initiated, the biological monitor shall complete a preconstruction survey to ensure wildlife species unlikely to escape on their own are not present, ensure that construction is not intruding into any environmentally sensitive areas, and that no special-status biological resources are being impacted. The biological monitor shall track compliance with the EIR biological mitigation measures and any other permit conditions that may pertain to biological resources. The monitor shall keep a daily activity log and provide the daily logs to the City Biologist on a weekly basis. Any and all violations or notable events shall be reported to the City immediately.	City of Malibu Biological monitor	City of Malibu	1. Conduct biological monitoring 2. Confirm that biological monitoring has occurred 3. Review biological monitoring logs on a weekly basis	1. Pre-Construction 2. During Construction
		MM BIO-5	MM BIO-5. Construction activities shall avoid the nesting season for birds, generally accepted to be February 1 (January 1 for raptors) through September 15. Should avoidance be infeasible, beginning 30 days prior to construction, a qualified biologist, approved by the City, shall conduct weekly surveys for nesting birds in all work zones and a 500 foot buffer area, with the final survey being no less than five days from the start of construction. If there is a delay of more than five days between when the nesting bird survey is performed and vegetation removal or other construction begins, it will be necessary to reconfirm whether any new nesting has occurred between the time the first nesting bird survey was performed and ground disturbance. Standard buffers for active nests are 300 feet for passerine species and 500 feet for raptors. If an active nest is identified, an appropriate buffer will be established, as determined by a qualified biologist, in consultation with CDFW, based on the sensitivity of the species and the nature of the construction activity. The contractor will be notified of active nests and directed to avoid any activities within the buffer zone until the nests are no longer considered to be active by the qualified biologist.	City of Malibu Qualified Biologist	City of Malibu	1. Confirm that weekly bird surveys were conducted in the 30 days prior to construction if construction occurs during nesting season 2. Confirm that bird survey was completed if construction is delayed as described in this measure 3. Confirm that appropriate buffers are established and clearly marked if active nests are found 4. Confirm and maintain record of notification to contractor of active nest status and avoidance requirements	1. Pre-Construction 2. During Construction
		MM BIO-6	MM BIO-6. Any work resulting in materials that could potentially be discharged into jurisdictional features will adhere to strict BMPs and the requirements set forth in regulatory agency (ACOE, RWQCB, or CDFW) permits/agreements to prevent potential pollutants from entering any	City of Malibu Construction Consultant/Contractor	City of Malibu	1. Verify that work is consistent with the project's SWPPP and/or WQMP	1. During Construction

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			jurisdictional feature. Applicable BMPs to be applied will be included in SWPPP and/or WQMP. At a minimum, barriers (straw bales or sedimentation fences) will be erected between the construction site or bore sites and Winter Canyon Creek (part of Phase 1 project) and Malibu Creek prior to construction or drilling, as appropriate, to prevent released material from reaching Winter Canyon Creek (part of Phase 1 project) or Malibu Creek and associated habitats.				
		MM BIO-7	MM BIO-7. To the extent feasible, all trees that must be removed to enable construction of facilities shall be removed outside the breeding seasons for birds and bats. The City will retain a tree removal specialist to remove all trees during times when birds and bats are not breeding. In order to further minimize impacts to potentially occurring bats, a two-step process for removal of any tree that cannot be avoided shall be implemented. This will involve removing all branches less than two inches in diameter from trees that will be removed, to create a disturbance that will encourage bats to choose another roosting site after foraging for that night. The following day the tree would be completely removed.	City of Malibu	City of Malibu	1. Confirm that trees are removed only outside bird and bat breeding season 2. Confirm that tree removal occurs consistent with MM BIO-3 and MM BIO-4 , above	1. Pre-Construction 2. During Construction
		MM BIO-17	MM BIO-17. All construction activities that occur within or adjacent to an ESHA (including augering work at the near Malibu Creek crossing at Cross Creek Road and piping placement on the PCH Pacific Coast Highway bridge or County Waterline bridge will have a biological construction monitor present. All construction activities that occur within 100 feet of an ESHA will be evaluated by a biologist to determine if biological monitoring of the construction activity is warranted. Biological construction monitoring would occur as needed to ensure that no direct or indirect impacts to ESHAs occur. At a minimum, a daily monitoring log would be prepared documenting construction compliance with the biological EIR mitigation measures, and any other subsequent measures that may be added.	City of Malibu Biological monitor	City of Malibu	1. Confirm measure is incorporated into project specifications 2. Identify areas where work will occur within, adjacent to, or within 100 feet of an ESHA 3. Verify presence of biological monitor as consistent with this measure 4. Verify daily monitoring log 5. Confirm that any additional mitigation measures are implemented as appropriate	1. During Construction
BIO-2	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by CDFW or USFWS.		Refer to MM BIO-1, MM BIO-2, MM BIO-4, MM BIO-6, and MM BIO-17 , above.				
BIO-3	Substantial adverse effect on federally protected wetlands through direct removal, filling, hydrological interruption, or other means.		Refer to MM BIO-1, MM BIO-2, MM BIO-4, MM BIO-6, and MM BIO-17 , above.				
BIO-4	Interfere substantially with movement of		Refer to MM BIO-1, MM BIO-2, MM BIO-4, MM BIO-6, MM BIO-7				

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	native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.		and MM BIO-17 , above.				
BIO-5	Conflict with any local policies or ordinances protecting biological resources.		Refer to MM BIO-4 , MM BIO-7 and MM BIO-17 above	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that trees are removed only outside bird and bat breeding season 2. Confirm that tree removal occurs consistent with MM BIO-3 and MM BIO-4, above 	<ol style="list-style-type: none"> 1. Pre-Construction 2. During Construction
		MM BIO-8	<p>MM BIO-8. To ensure that potential temporary impacts will not affect the health of trees that remain on-site, the following shall be implemented, as applicable:</p> <ul style="list-style-type: none"> • Drainage shall be directed away from the root zones of all native trees. • Poisonous chemicals or materials that could be deleterious to tree health shall be discarded in approved storage containers. • Tree trunks shall not be used as winch supports, anchors, or signposts or for any other function. • The storage of vehicles, building materials, refuse, or excavated soil materials shall not occur within the protected zones of trees. • The use, access, or parking of heavy vehicles or equipment (e.g., backhoes, tractors) shall not occur within the protected zones of trees. 	City of Malibu Contractor	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that measure is incorporated in specifications for the project 2. Identify native trees and their root zones within project area 3. Confirm measures are implemented to direct drainage away from native tree root zones 4. Confirm that construction equipment and materials are stored, handled, and disposed of as required by specifications consistent with this measure 	<ol style="list-style-type: none"> 1. Pre-Construction 2. During Construction
		MM BIO-9	<p>MM BIO-9. Prior to construction along the pipeline alignment and in collection and distribution system areas, a qualified biologist or arborist shall conduct a focused native tree survey in these areas to determine if there are any other protected native trees within the direct impact area. If it is apparent that any protected native trees not previously identified would require removal, these trees shall be reported to the City, and all mitigation measures in the tree protection plan shall be implemented for these trees pursuant to LIP Chapter 5.</p>	City of Malibu Biologist or Arborist	City of Malibu	<ol style="list-style-type: none"> 1. Confirm native tree survey was completed consistent with this measure 2. Confirm that any protected native tree removal occurs consistent with this measure 3. Verify that mitigation measures in tree protection plan are implemented 	<ol style="list-style-type: none"> 1. Pre-Construction
		MM BIO-10	<p>MM BIO-10. Prior to construction, highly visible protective fencing (i.e., Environmentally Sensitive Area fencing) shall be installed around the wastewater treatment facility's limits of disturbance to avoid direct impacts on native trees adjacent to the construction area. In addition, exclusionary fencing shall be installed around the outermost limits of the tree protection zones (i.e., five feet outside of the drip line or 15 feet from the trunk,</p>	City of Malibu Biologist or Arborist	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that this measure is incorporated into specifications for project 2. Verify that protective fencing is installed consistent with this 	<ol style="list-style-type: none"> 1. Pre-Construction 2. During Construction

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			whichever is greater) of the native trees within or adjacent to the construction area that will not be removed but have the potential to be disturbed during construction or grading activities. All tree fencing shall be supervised by a qualified biologist or arborist prior to the commencement of any clearing, grading, or other construction activities. Fencing shall be maintained in place for the duration of all construction. No construction, grading, staging, or material storage shall be allowed within the fenced exclusion areas or within the protected zones of any native trees. This includes around any native trees (if present) potentially occurring within the collection and distribution system areas.			measure 3. Verify that fencing remains intact throughout construction and that disturbance within the fenced area does not occur, consistent with this measure	
		MM BIO-11	MM BIO-11. Any construction-related activity (e.g., pruning) that encroaches into the tree protection zone of a native tree must be done using only hand-held tools. Prior to encroachment into the tree protection zone, the tree must be inspected by a qualified arborist to ensure that the activity will not result in loss or worsen the health of the tree. This includes around any native trees (if present) potentially occurring within the collection and distribution system areas.	City of Malibu	City of Malibu	1. Confirm that this measure is incorporated into project specifications 2. Confirm that tree inspections have occurred consistent with this measure 3. Verify that construction –related activities that encroach into the tree protection zone of native trees are done with hand-held tools	1. Pre-Construction 2. During Construction
		MM BIO-12	MM BIO-12. A qualified arborist or biologist shall monitor native trees that are within or adjacent to the construction area. The monitor shall be present during installation of exclusionary fencing and shall ensure that construction personnel or equipment do not encroach into sensitive areas. The monitor shall also oversee work with hand tools in the protected zone and check the exclusionary fencing weekly to ensure that the fencing remains intact during all construction phases of the Project. This includes directing construction personnel when the fencing needs repair or replacement.	City of Malibu Biologist or Arborist	City of Malibu	1. Confirm monitor oversees installation of fencing 2. Confirm monitor oversees work with handtools in the protected zone 3. Confirm monitor checks fencing weekly during construction	1. Pre-Construction 2. During Construction
		MM BIO-13	MM BIO-13. The proposed wastewater treatment facility design shall avoid removal of and temporary impacts on protected native trees to the maximum extent feasible. If the proposed design does not prevent protected native tree removal or encroachment, then the fewest or least significant impacts shall be selected. Adverse impacts on protected native trees shall be fully mitigated, with priority given to on-site mitigation. The coastal development permit shall include the mitigation requirements as conditions of approval.	City of Malibu	City of Malibu	1. Confirm that design is consistent with measure 2. Confirm coastal develop permit incorporates mitigation for native tree impacts	1. Design 2. Pre-Construction
		MM BIO-14	MM BIO-14. Any California walnut trees that meet the LIP Chapter 5 protection criteria and that are proposed for removal or where development encroaches into the protected zone of the native tree, resulting in loss or	City of Malibu Contractor	City of Malibu	1. Confirm that measure is incorporated into design and project specifications	1. Design 2. Pre-Construction

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			worsened health of the tree, shall be replaced on-site (if suitable habitat is present) at a ratio of 10:1. Seedlings (less than 1 year old) shall be planted in an area of the proposed wastewater treatment facility site where suitable habitat is present.			<ol style="list-style-type: none"> 2. Confirm that design is consistent with measure 3. Verify that correct number of seedlings are planted 	<ol style="list-style-type: none"> 3. Construction
		MM BIO -15	<p>MM BIO-15. If impacts to protected native trees cannot be feasibly avoided, mitigation shall be provided by one of the following methods pursuant to LIP Sections 5.3 and 5.5, and the Native Tree Protection Plan prepared for the Project (Appendix D):</p> <ul style="list-style-type: none"> • Off-Site Mitigation: Planting at least 10 replacement trees for every tree removed (can occur off-site in suitable habitat that is restricted from development or in public parklands). Seedlings (less than 1 year old) shall be planted in an area where there is suitable habitat; OR • In-Lieu Fee Program: For unavoidable impacts resulting in the loss of native trees and native tree habitat, payment of an in-lieu fee shall be provided. The fee shall be paid into the Native Tree Impact Mitigation Fund, which is administered by the Santa Monica Mountains Conservancy. The fee shall be based on the type, size, and age of the trees removed. 	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that measure is incorporated into project specifications 2. Verify that correct number of seedlings are planted and/or correct fees paid to the Native Tree Impact Mitigation Fund 	<ol style="list-style-type: none"> 1. Pre-Construction 2. Construction
		MM BIO-16	<p>MM BIO-16. Pursuant to LIP Chapter 5, Section 5.6.1, each affected protected tree that is not removed, but encroached upon shall be monitored annually for a period of not less than 10 years. An annual monitoring report shall be submitted for review by the City for each of the 10 years. The monitoring report shall include measurements of the tree (i.e., DBH, approximate height, and canopy width) and the relative health of each of the replacement trees, including notes regarding any damage from fire, disease, insects, or other vectors that affect health. If at any time the health of a replacement tree begins to decline beyond recovery, that tree shall be replaced in kind with an equal healthy replacement.</p> <p>Monitoring reports shall be provided to the City annually and at the conclusion of the 10-year monitoring period to document the success or failure of the mitigation. If performance standards are not met by the end of 10 years, the monitoring period shall be extended until the standards are met. If any of the trees is lost or its health or vigor is worsened as a result of the proposed wastewater treatment facility, the impact shall be mitigated through replanting at a ratio of 10:1 on-site, off-site mitigation, or an in-lieu fee (as described above).</p>	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm measure is incorporated into project specifications 2. Confirm that monitoring reports are produced yearly for a minimum of 10 years, for not less than a total of 10 annual reports 3. Verify that any replacement trees that require further replacement are replaced consistent with this measure 4. Confirm that mitigation meets performance measures after 10 years 5. If performance measures not met after 10 years, confirm that monitoring, reporting, and mitigation continues as stipulated in this measure 	<ol style="list-style-type: none"> 1. During Construction 2. Operation

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CULTURAL AND PALEONTOLOGICAL RESOURCES							
AR-1	Create substantial adverse change in the significance of an archaeological resource	MM AR-1	<p>MM AR-1: A certified archaeologist and a culturally-affiliated Native American, with knowledge of cultural resources, shall monitor all initial Project-related ground-disturbing activities in the area of the proposed wastewater treatment facility as well as excavations or other impacts, should they take place, from pipeline construction adjacent to CA-LAN-266, CA-LAN-12715, CA-LAN-1417, or the Humaliwo site, CA-LAN-264. Monitoring should take place on both sides of Malibu Lagoon, specifically from Cross Creek Road east to a point on the other side of the Lagoon opposite the western end of the parking lot at Malibu State Beach, west beyond the Adamson House. This area may need to be extended, if significant materials are discovered during monitoring. In those areas that are not monitored by a certified archaeologist and a culturally-affiliated Native American, if buried cultural resources are uncovered during construction, all work shall be halted in the vicinity of the archaeological discovery until a qualified archaeologist can visit the site of discovery and assess the significance of the archaeological resource. Provisions for the disposition of recovered prehistoric artifacts shall be made in consultation with culturally affiliated Native Americans. The Native American Heritage Commission shall be the final arbiter should disagreement arise over the disposition of the recovered artifacts.</p> <p>In the event of an accidental discovery of human remains in a location other than a dedicated cemetery, the steps and procedures specified in Health and Safety Code Section 7050.5, State CEQA Guidelines Section 15064.5(e), and PRC Section 5097.98 shall be implemented.</p>	City of Malibu Native American cultural monitor Archaeologist	City of Malibu	<ol style="list-style-type: none"> 1. Confirm measure is incorporated into project specifications 2. Confirm that any cultural resources uncovered during construction are treated in accordance with recommendation from archaeologist and Native American cultural monitor 3. Confirm that any cultural resources whose treatment is under dispute is treated in accordance with the recommendations of the Native American Heritage Commission 4. Confirm that any human remains are uncovered during construction are handled in accordance with applicable regulations, as proscribed in this measure 	1. During Construction
		MM AR-2	<p>MM AR-2: Pre-excavation borings shall be installed along the proposed pipeline location in Malibu Road adjacent to CA-LAN-1417. A certified archaeologist and a culturally-affiliated Native American, with knowledge of cultural resources, shall monitor the pre-construction investigation and determine if archaeologically significant artifacts are located in the proposed pipeline location and have the potential to be impacted by project construction.</p> <p>Should archaeologically significant artifacts be discovered, all work in the area shall be halted until a treatment plan can be developed and implemented, following which construction would continue.</p>	City of Malibu Native American cultural monitor Archaeologist	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that measure is incorporated into project specifications 2. Confirm that a treatment plan is developed if archaeologically significant artifacts are discovered 3. Confirm that pre-excavation borings occurs prior to construction and in accordance with the treatment plan, if a treatment plan is developed 	1. Pre-Construction
AR-2	Project would disturb human remains		Refer to MM AR-1 and MM AR-2 , above.				

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PR-1	Directly or Indirectly destroy a unique paleontological resource	MM PR-1	<p>MM PR-1: A qualified paleontologic monitor shall be required in any areas where excavation will occur below a depth of 5 feet. The qualified paleontologic monitor shall retain the option to reduce monitoring if, in his or her professional opinion, the sediments being monitored were previously disturbed. Monitoring may also be reduced if the potentially fossiliferous units, previously described, are not present or, if present, are determined by qualified paleontologic personnel to have a low potential for containing fossil resources.</p> <p>The monitor shall be equipped to salvage fossils and samples of sediments as they are unearthed to avoid construction delays and be empowered to halt or divert equipment temporarily to allow removal of abundant or large specimens. Recovered specimens shall be prepared to a point of identification and permanent preservation, including washing to recover small invertebrates and vertebrates.</p> <p>Specimens shall be curated into a professional, accredited museum repository with permanent retrievable storage. A report of findings, with an appended itemized inventory of specimens, shall be prepared and submitted to the City. The report and inventory, when submitted to the City, will signify completion of the program to mitigate impacts on paleontological resources.</p>	City of Malibu Paleontologic monitor	City of Malibu	<ol style="list-style-type: none"> 1. Confirm that measure is incorporated into project specifications 2. Verify that monitor has resources necessary to salvage fossils and sample sediments as they are unearthed 3. Confirm that specimens are curated into a museum repository meeting the requirements stipulated in the measure 4. Confirm receipt of report of findings and inventory of specimens 	<ol style="list-style-type: none"> 1. During Construction
GEOLOGY AND SOILS							
GEO-2	Expose people or structures to potential substantial adverse effects involving hazards due to ground shaking	MM GEO-1	MM GEO-1: All Project facilities shall be designed to comply with City and state seismic hazard requirements.	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm design is consistent with measure 	<ol style="list-style-type: none"> 1. Design
		MM GEO-2	MM GEO-2: The Project shall conform to all applicable provisions and guidelines set forth by the Uniform Building Code, which sets forth regulations concerning proper design for seismic safety.	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm design is consistent with measure 	<ol style="list-style-type: none"> 1. Design
		MM GEO-3	MM GEO-3: Project operating protocols shall include facility personnel training regarding appropriate response actions following a seismic event. These protocols will include required notification procedures, plant operation modifications, and inspection requirements.	City of Malibu	City of Malibu	<ol style="list-style-type: none"> 1. Confirm project operating protocols are consistent with measure 	<ol style="list-style-type: none"> 1. Operation
GEO-4	Expose people or structures to potential substantial adverse effects involving hazards due to landslides or slope instability	MM GEO-4	MM GEO-4: All earthwork and grading shall meet the requirements of State of California building and structural codes and be performed in accordance with the recommendations in the geotechnical investigation conducted for the Project and the Erosion Control Plan required as part of the LARWQCB NPDES permit.	City of Malibu Construction Consultant/Contractor	City of Malibu	<ol style="list-style-type: none"> 1. Confirm design and project specifications incorporate the recommendations of the geotechnical investigation and Erosion Control Plan 2. Confirm construction occurs in 	<ol style="list-style-type: none"> 1. Design 2. During Construction

Malibu Civic Center Wastewater Treatment Facility Project
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						accordance with specifications	
		MM GEO-5	MM GEO-5: The Project shall comply with guidelines in the City's General Plan, LUP, and LIP Chapter 17, such as those related to fill buttressing, the use of retaining walls, drainage control, and the provision of debris basins and setbacks where appropriate.	City of Malibu	City of Malibu	1. Confirm design complies with the guidelines in the City's General Plan, LUP, and LIP Chapter 17	1. Design
		MM GEO-6	MM GEO-6: Site preparation and earthwork shall be done in accordance with recommendations in geotechnical reports for the Project including recommendations from Geosytec (2014). This would include performing earthwork in accordance with Section 300 of the most recent approved edition of the <i>Standard Specifications for Public Works Construction and Regional Supplemental Amendments</i> .	City of Malibu Construction Consultant/Contractor	City of Malibu	1. Confirm design and project specifications incorporate the recommendations in the geotechnical reports for the Project and Section 300 of the <i>Standard Specifications for Public Works Construction and Regional Supplemental Amendments</i> 2. Verify that site preparation and earthwork is done as required in specifications	1. Design 2. Pre-Construction 3. During Construction
		MM GEO-7	MM GEO-7: Geotechnical investigations shall be conducted to develop slope stabilization criteria for any pipelines that would be constructed in areas that are prone to landslides. In addition, steep slopes shall be evaluated to determine whether detailed geotechnical investigations should be performed. The geotechnical reports shall be submitted to the City for review and approval of the slope stabilization measures as well as the collection and distribution system pipeline installations included in the Project design. Slope stabilization measures may include soil improvements, buttressing of the slopes, or compaction of trench backfill. In addition, erosion control measures, such as water bars, trench dams, and revegetation, shall be identified in the Project's Erosion Control, Landscaping, and Revegetation Plan.	City of Malibu Construction Consultant/Contractor	City of Malibu	1. Confirm geotechnical investigations are conducted 2. Approve slope stabilization measures and collection and distribution system pipeline installations 3. Confirm erosion control measures are identified in the Project's Erosion Control, Landscaping, and Revegetation Plan	1. Design
HAZARDS AND HAZARDOUS MATERIALS							
HM-1	Create a significant hazard through routine transport and use or accidental release of hazardous materials	MM HM-1	MM HM-1: An environmental training program shall be established to communicate environmental concerns and appropriate work practices, including spill prevention, emergency response measures, and proper best management practices implementation, to all field personnel associated with construction activities. The training program shall emphasize site-specific physical conditions to improve hazard prevention (e.g., identification of potentially hazardous substances) and shall include a review of all site-specific plans. A Hazardous Substance Control and Emergency Response Plan shall be	City of Malibu Contractor	City of Malibu	1. Confirm that measure is incorporated into project specifications 2. Confirm an environmental training program consistent with this measure is established and implemented 3. Confirm all field personnel participate in the training	1. Design 2. Pre-Construction 3. During Construction

Malibu Civic Center Wastewater Treatment Facility Project
MITIGATION MONITORING AND REPORTING PLAN

Impact Number	Impact Summary	Mitigation No.	Mitigation Measure (Exact Text)	Monitoring and Reporting Plan			
				Implementation and Reporting		Monitoring and Reporting Actions	Implementation Schedule - Design - Pre-Construction - During Construction - Operation
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			prepared by the contractor. This plan shall be submitted to the City along with the grading permit application for each structure or with the encroachment permit application for the construction of pipelines. The plan shall prescribe hazardous-materials handling procedures for reducing the potential for a spill during construction and shall include an emergency response program to ensure quick and safe cleanup of accidental spills. Furthermore, the plan shall identify areas where refueling and vehicle maintenance activities and storage of hazardous materials, if any, shall be permitted. These directions and requirements shall also be reiterated in the Project's Storm Water Pollution Prevention Plan (SWPPP).			<ol style="list-style-type: none"> Confirm receipt of and compliance with a Hazardous Substance Control and Emergency Response Plan that is consistent with this measure Confirm that the requirements and directions of the Hazardous Substance Control and Emergency Response Plan are incorporated into the SWPPP 	
		MM HM-2	MM HM-2: Oil-absorbent material, tarps, and storage drums shall be used to contain and control any minor releases in construction areas. Emergency spill supplies and equipment shall be kept adjacent to all areas of work and in staging areas, and shall be clearly marked. Detailed information for responding to accidental spills and for handling any resulting hazardous materials shall be provided in the Project's Hazardous Substances Control and Emergency Response Plan.	City of Malibu Contractor	City of Malibu	<ol style="list-style-type: none"> Confirm measure is incorporated into project specifications Verify emergency spill supplies and equipment are kept adjacent to work and staging areas Confirm spill response and handling of hazardous materials is included in the Hazardous Substances Control and Emergency Response Plan 	<ol style="list-style-type: none"> Pre-Construction During Construction
		MM HM-3	MM HM-3: During excavation and grading for the proposed Project, the contractor shall observe exposed soil for visual evidence of contamination. If visual contamination indicators are observed during excavation or grading activities, all work shall stop and an investigation shall be designed and performed to verify the presence and extent of contamination at the site. A qualified and approved environmental consultant shall perform the review and investigation. Results shall be reviewed and approved by LACFD or the California Department of Toxic Substances Control (DTSC) prior to construction. The investigation shall include collecting samples for laboratory analysis and quantifying contaminant levels within the proposed excavation and surface disturbance areas. Subsurface investigation shall determine appropriate worker protection and hazardous material handling and disposal procedures appropriate for the subject site.	City of Malibu Contractor Environmental Consultant	City of Malibu	<ol style="list-style-type: none"> Confirm measure is incorporated into the project specifications Confirm any review and investigation regarding contaminated soils is conducted by environmental consultant and in compliance with this measure Confirm review and approval of results by LACFD or the DTSC 	<ol style="list-style-type: none"> During Construction
		MM HM-4	MM HM-4: For Project operations, the City shall prepare a Hazardous Materials Business Plan for the wastewater treatment facility that would address handling and storage of all hazardous chemicals that would be used during the treatment process. The plan shall address containment, site layouts, and emergency response and notification procedures for a spill or release.	City of Malibu	City of Malibu	<ol style="list-style-type: none"> Prepare Hazardous Materials Business Plan consistent with this measure 	<ol style="list-style-type: none"> Design Pre-Construction Operation

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HYDROLOGY AND WATER QUALITY							
HWQ-6	Project subject to inundation from seiche, tsunami, or mudflow	MM HY-1	MM HY-1: The City will prepare and implement a Tsunami Response Plan for the Project that defines emergency response and coordination procedures. The Tsunami Response Plan shall contain significant information specific to actions that may be necessary related to receipt of a tsunami watch, warning, or as a result of an actual tsunami. The first priority of emergency management response shall be the protection of life and property.	City of Malibu	City of Malibu	1. Prepare Tsunami Response Plan consistent with this measure 2. Implement Tsunami Response Plan	1. Design 2. Operation
NOISE AND VIBRATION							
NV-1	Expose persons to or generate noise levels in excess of standards established in a local General Plan or noise ordinance or applicable standards of other agencies	MM NV-1	MM NV-1: The construction contractor shall use appropriate noise-control measures to reduce construction noise levels to the extent feasible. Noise controls could include any of the following, as appropriate: <ul style="list-style-type: none"> • Construction hours shall be in compliance with City and County noise ordinances during construction within each respective jurisdictional boundary. • Best available noise-control techniques (including mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds) shall be used for all equipment and trucks to minimize construction noise impacts. • If impact equipment (e.g., jackhammers and pavement breakers) is used during Project construction, hydraulically or electrically powered equipment shall be used wherever feasible to avoid the noise associated with compressed-air exhaust from pneumatically powered tools. However, where the use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed-air exhaust shall be used (a muffler can lower noise levels from the exhaust by up to about 10 dBA). External jackets on the tools themselves shall be used, where feasible, which could reduce noise by 5 dBA. Quieter procedures, such as drilling rather than impact equipment, shall be used whenever feasible. • Pile holes shall be pre-drilled wherever feasible to reduce potential noise and vibration impacts. • Stationary noise sources shall be located as far from sensitive receptors as feasible. If they must be located near receptors, adequate muffling (with enclosures where feasible and appropriate) shall be used to ensure that local noise ordinance limits are met to the extent feasible. Enclosure openings or venting shall face away from sensitive receptors. If any stationary equipment (e.g., ventilation fans, generators, dewatering pumps) is required, such equipment shall comply with the 	City of Malibu Contractor	City of Malibu	1. Confirm measure incorporated into project specifications 2. Verify use of appropriate noise-control measures	1. Design 2. Construction

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			daytime and nighttime noise limits specified in pertinent noise ordinances to the extent feasible. <ul style="list-style-type: none"> Material stockpiles as well as maintenance/equipment staging and parking areas shall be located as far as feasible from residential and school receptors. Proposed jack-and-bore pits shall be located as far from sensitive receptors as technically feasible. A designated Project liaison shall be responsible for responding to noise complaints during the construction phases. The name and phone number of the liaison shall be conspicuously posted at construction areas and on all advance notifications. This person shall take steps to resolve complaints, including periodic noise monitoring if necessary. Results of noise monitoring shall be presented at regular meetings with the construction contractor, and the liaison shall coordinate with the construction contractor to modify, to the extent feasible, any construction activities that generate excessive noise levels. 				
		MM NV-2	MM NV-2: All emergency generators shall be housed and muffled with acoustically rated enclosures to reduce noise levels to the greatest extent possible.	City of Malibu Contractor	City of Malibu	1. Confirm measure incorporated into project specification 2. Verify emergency generators are housed and muffled as specified by measure	1. During Construction
NV-4	Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity		Refer to MM NV-2, above				
UTILITIES							
U-2	Construction of New Water or Wastewater Treatment Facilities or Expansion of Existing Facilities Could Cause Significant Environmental Effects		See MM BIO-3, 5, 7, 10, 11, 13, and 14; MM AR-1 and 2; MM PR-1; MM GEO-1, 4, 5 and 7; MM HM-1 through 4; MM HY-1 and MM NV-1 and 2				
TRANSPORTATION AND TRAFFIC							
Construction Impacts	Temporary increase in traffic and traffic impacts during construction.	MM TRANS-1	MM TRANS-1: To the greatest extent possible, the City shall coordinate the Traffic Control Plan and construction of the proposed Project with any projects that are scheduled to be constructed concurrently in the Civic Center area or along PCH within 1 mile of the Civic Center area. If related projects are anticipated to be constructed concurrently within the Civic Center area or along PCH within 1 mile of the Civic Center area, the City shall provide the Traffic Control Plan to the related project's proponent or other responsible entity and receive additional input from the proponent or responsible entity	City of Malibu Contractor	City of Malibu	1. Develop list of projects in the Civic Center area or along PCH within 1 mile of the Civic Center area that are scheduled concurrent with the proposed Project 2. Develop Traffic Control Plan in coordination with these projects	1. Pre-Construction 2. During Construction

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			on potential construction haul routes and timing. The Traffic Control Plan will also be coordinated with school traffic patterns via consultation with the Santa Monica-Malibu Unified School District and Our Lady of Malibu representatives. Prior to finalization and approval of the Traffic Control Plan by the City and prior to the commencement of construction, the Traffic Control Plan shall be reviewed by LACFD and LASD.			and with neighboring schools 3. Provide draft copies of Traffic Control Plan to LACFD and LASD for review and comment 4. Incorporate as appropriate comments from LACFD and LASD 5. Provide copies of Traffic Control Plan to responsible entities for the identified concurrent projects	