

This Mitigation Monitoring and Reporting Program (MMRP) contains mitigation measures for the Red/Purple Line Core Capacity Improvements Project, which will be approved by the Los Angeles County Metropolitan Transportation Authority (Metro) Board of Directors upon certification of the Final IS/MND. This Final MMRP document contains minor modifications for clarity but no new information is presented. New text is underlined and blue (if viewing in color), and deleted text has been struck-through and is red (if viewing in color).

Mitigation Monitoring and Reporting Program

Impact	Mitigation Measure(s)	Monitoring Action(s)	Responsible Party	Timeframe
Air Quality and Greenhouse Gas Emissions				
Short-term air quality impacts generated during construction	AQ-1 ¹ - The project shall be designed and constructed in a manner consistent with Metro's sustainability policies (such as Metro's Green Construction Policy, Energy and Sustainability Policy and Metro's Sustainability Implementation Plan) and implement Best Management Practices for emissions.	Check design contract documents and construction specifications for compliance.	Metro	Final Design
		Monitor construction activities for compliance.		Construction

¹ Please note, the Draft IS/MND conservatively concluded that mitigation measure AQ-1 would be required to reduce impacts to less than significant. However, as design and analysis continued, Metro has confirmed that mitigation measure AQ-1 would not be required in a technical memo, *LA Metro, Metro Red/Purple Line Core Capacity Improvements Project, Air Quality and Greenhouse Gas Emissions Analysis*. However, out of an abundance of caution, Metro will keep mitigation measure AQ-1 as part of the Final IS/MND.

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Cultural and Tribal Cultural Resources – Tribal Cultural Resources Archaeology				
Unknown archaeological resources could be disturbed during construction.	TCR-1 CR-2 - Because of the potential for Tribal Cultural Resources, a Native American monitor shall be retained on an as-needed basis to monitor alongside the archaeological/paleontological monitor. Monitoring procedures will be outlined in the project CRMMP. In the event the Native American monitor identifies cultural or archeological resources, the monitor shall be given the authority to temporarily halt construction in the immediate vicinity of the discovery to investigate the find and contact the project archaeologist/paleontologist.	Identify a qualified Native American cultural resources consultant.	Metro, Native American Monitor	Pre-Construction
		Monitor construction activities for compliance.		Construction

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<p>Unknown archaeological resources could be disturbed during construction.</p>	<p>TCR-2CR-3 - In the event that human remains are encountered at the project site, all work in the immediate vicinity of the burial must cease, and any necessary steps to ensure the integrity of the immediate area shall be taken. The Los Angeles County Coroner will be immediately notified. The Coroner must then determine whether the remains are Native American. Should the Coroner determine the remains are Native American, the Coroner has 24 hours to notify the Native American Heritage Commission (NAHC), who shall in turn, notify the person they identify as the most likely descendent (MLD). Further actions shall be determined in part by the recommendations of the MLD. The MLD has 24 hours following notification from the NAHC to make recommendations regarding the disposition of the remains of the discovery. If the MLD does not make recommendations within 24 hours, the owner shall, with appropriate dignity, re-inter the remains in an area of the property secure from further disturbance. Alternatively, if the owner does not accept the MLD's recommendations, the owner or the descendent may request mediation by</p>	<p>Monitor construction activities for compliance.</p> <hr/> <p>Identify MLD and ensure timely inspection occurs.</p>	<p>Metro</p> <hr/> <p>NAHC</p>	<p>Construction</p>

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	the NAHC. Procedures of conduct following the discovery of human remains have been mandated by Health and Safety Code §7050.5, Public Resources Code §5097.98, and the California Code of Regulations §15064.5(e) (CEQA).			
Cultural and Tribal Cultural Resources – Archaeology				
Unknown archaeological resources could be disturbed during construction.	CR-1 - The Project is expected to occur in previously disturbed soils, however, an qualified archaeologist who meets the standards of the Secretary of the Interior for Archaeology shall be retained to monitor all project-related, ground-disturbing construction activities (i.e.,	Verify qualifications of archaeological monitor.	Metro	Pre-Construction

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	<p>grading, excavation, etc.) that are in previously undisturbed soils only if encountered. In the event that cultural resources are exposed during construction, the qualified monitor will temporarily halt construction in the immediate vicinity of the discovery (if safe) while the potential resource is evaluated for significance. Construction activities could continue in other areas. If the discovery proves to be significant, additional work, such as data recovery excavation, shall be required. A Cultural Resources Monitoring and Mitigation Plan (CRMMP) will be developed prior to the start of ground disturbing activities outlining monitor procedures.</p>	<p>Monitor construction activities for compliance.</p>		<p>Construction</p>
<p>Cultural and Tribal Cultural Resources - Paleontology</p>				
<p>Previously undiscovered paleontological resources may be disturbed during construction.</p>	<p>CR-24 - The Project is expected to occur in previously disturbed soils, however a qualified paleontological monitor shall be retained to monitor project-related excavation activities on a full-time basis on previously</p>	<p>Verify qualifications of paleontologist.</p>	<p>Metro, Paleontological Monitor</p>	<p>Pre-Construction</p>

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	undisturbed soils. Project-related excavation activities of less than ten feet depth shall be monitored on a part-time basis on previously undisturbed soils to ensure that underlying paleontologically sensitive sediments are not being impacted. In addition, the monitor shall ensure the proper differentiation between paleontological and archaeological resources.	Monitor construction activities for compliance.		Construction
Previously undiscovered paleontological resources may be disturbed during construction.	CR-35 - The Project is expected to occur in previously disturbed soils. A Paleontological Monitoring and Mitigation Plan will be developed prior to the start of ground disturbing activities by a qualified professional paleontologist. If undisturbed soil is discovered (see also CR-1) a qualified professional paleontologist shall be retained to supervise the monitoring of construction. Paleontological resource monitoring shall include inspection of exposed rock units during active	Verify qualifications of paleontologist.	Metro	Pre-Construction
		Verify that an adequate Paleontological Monitoring and Mitigation Plan has been prepared.	Metro, Paleontological Monitor	Pre-Construction

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	excavations within sensitive geologic sediments, as defined by the PMMP and as needed. The monitor shall have authority to temporarily divert grading away from exposed fossils in order to efficiently recover the fossil specimens and collect associated data. The qualified paleontologist shall prepare monthly progress reports to be filed with Metro, and the Natural History Museum of Los Angeles County. At each fossil locality, field data forms shall be used to record pertinent geologic data, stratigraphic sections shall be measured, and appropriate sediment samples shall be collected and submitted for analysis. Matrix sampling shall be conducted to test for the presence of microfossils.	Monitor construction activities for compliance and verify that adequate monthly progress reports are filed	Metro, Paleontological Monitor	Construction
Previously undiscovered paleontological resources may be disturbed during construction.	CR-46 - Recovered fossils shall be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility. The most likely repository would be the Natural History Museum of Los Angeles County.	Verify that a suitable repository has been identified and recovered fossils are repositated appropriately.	Metro	Construction

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Geology and Soils				
Liquefaction and seismic settlement	GS-1 - Metro shall conduct a geotechnical report that is consistent with Metro criteria and/or design guidelines, as well as City of Los Angeles building specification guidelines.	Verify that an adequate report is filed.	Metro	Pre-Construction
Potential exists for excess erosion to occur during construction.	GS-2 - Implementation of Best Management Practices such as scheduling excavation and grading activities during dry weather as feasible, and covering stockpiles of excavated soils with tarps or plastic sheeting would help reduce soil erosion due to grading and excavation activities.	Monitor construction activities for compliance.	Metro	Construction

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Hazards and Hazardous Materials				
Potential exists for contaminated soil/groundwater	HM-1 - Once detailed engineering plans are prepared, a Contaminated Soil/Groundwater Management Plan shall be prepared and implemented during construction to establish procedures to follow if contamination is encountered. This will minimize associated risks and assure that applicable statutory and regulatory standards and requirements are satisfied, such as Title 22, Division 4.5, Environmental Health Standards for the Management of Hazardous Waste; California Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control; and Interim Site Assessment and Cleanup Guidebook, California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4 . The plan shall include procedures for the implementation of mitigation measures HMAZ-2 through HMAZ-6. The Contaminated Soil/Groundwater Management Plan shall abide by the Land Use Covenants for each parcel, as applicable.	Verify that an adequate plan is filed.	Metro	Pre-Construction

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Potential exists for contaminated soil/groundwater	HM-2 - Appropriate regulatory agencies, identified in the Contaminated Soil/Groundwater Management Plan, shall be contacted if contaminated soil or groundwater is encountered.	Verify compliance	Metro	Construction
Potential exists for contaminated soil/groundwater	HM-3 - Sampling and analysis of soil and/or groundwater known or suspected to be impacted by hazardous materials shall be conducted in accordance with the procedures detailed in the Contaminated Soil/Groundwater Management Plan.	Verify that adequate sampling and analysis have been completed.	Metro	Construction
Potential exists for contaminated soil/groundwater	HM-4: Procedures for the legal and proper handling, storage, treatment, transport, and disposal of contaminated soil and/or groundwater shall be delineated and conducted in consultation with regulatory agencies and in accordance with established statutory and regulatory requirements as explained in the Contaminated Soil/Groundwater Management Plan.	Verify that adequate procedures have been completed.	Metro	Construction
Potential exists for contaminated soil	HM-5: Dust control measures such as soil wetting, wind screens, etc. shall be implemented for contaminated soil.	Monitor construction activities for compliance.	Metro	Construction

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Potential exists for health and safety concerns of workers	HM-6: Worker Health and Safety Plan shall be implemented prior to the start of construction activities. All workers shall be required to review the plan, receive training if necessary, and sign the plan prior to starting work. The plan shall identify properties of concern, the nature and extent of contaminants that could be encountered during excavation activities, appropriate health and environmental protection procedures and equipment, and emergency response procedures including the most direct route to a hospital, and contact information for the Site Safety Officer.	Verify that adequate procedures have been completed.	Metro	Pre-Construction
Potential exists to encounter methane	HM-7: The project shall be consistent with the City's Methane Mitigation Standards, which include provisions to protect workers and the public.	Verify that adequate provisions have been completed.	Metro	Pre-Construction
		Monitor construction activities for compliance.	Metro	Construction
Asbestos and lead may be encountered during building demolition.	HM-8: Prior to building demolition, surveys for asbestos containing materials and lead-based paint shall be conducted. If necessary, destructive sampling shall be used. All asbestos containing materials and lead-based paint would be removed or otherwise abated prior to demolition.	Monitor construction activities for compliance and verify that any necessary abatement has been completed before demolition begins.	Metro	Construction

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Hydrology and Water Quality				
Potential exists for excess erosion to occur during construction.	WQ-1 - Metro shall employ standard Best Management Practices (BMPs) for project construction and applicable specifications for runoff or discharge so as to control water runoff quality. BMPs shall be designated according to the guidance of the California Stormwater Quality Association Stormwater Best Management Practice Handbooks for Construction and for Industrial and Commercial. Examples of BMPs include securely covering construction stockpiles and employing fiber filters at storm drain inlets.	Monitor construction activities for compliance.	Metro	Construction
Land Use and Planning				
Displacement and relocation of business would be necessary.	LU-1 - Metro shall provide relocation assistance and compensation as required by the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.	Verify qualifications of property appraiser.	Metro	Pre-Construction
		Ensure provision of relocation assistance and payment of affected owners just compensation not less than the appraised market value for their property.	Metro	Pre-Construction