



1.0 INTRODUCTION

CEQA requires that when a public agency completes an environmental document, which includes measures to mitigate or avoid significant environmental effects, the public agency must adopt a reporting or monitoring program. This requirement ensures that environmental impacts found to be significant will be mitigated. The reporting or monitoring program must be designed to ensure compliance during project implementation (Public Resources Code Section 21081.6).

In compliance with Public Resources Code Section 21081.6, the attached Section 2.0, Mitigation Monitoring and Reporting Checklist, has been prepared for the River Avenue Storm Drain Improvements Project. This Mitigation Monitoring and Reporting Checklist is intended to provide verification that all applicable Conditions of Approval relative to significant environmental impacts are monitored and reported. Monitoring will include: 1) verification that each mitigation measure has been implemented; 2) recordation of the actions taken to implement each mitigation; and 3) retention of records in the River Avenue Storm Drain Improvements Project file.

This Mitigation Monitoring and Reporting Program delineates responsibilities for monitoring the Project, but also allows the City flexibility and discretion in determining how best to monitor implementation. Monitoring procedures will vary according to the type of mitigation measure. Adequate monitoring consists of demonstrating that monitoring procedures took place and that mitigation measures were implemented. This includes the review of all monitoring reports, enforcement actions, and document disposition, unless otherwise noted in the attached Mitigation Monitoring and Reporting Program Checklist. If an adopted mitigation measure is not being properly implemented, the designated monitoring personnel shall require corrective actions to ensure adequate implementation.

Reporting consists of establishing a record that a mitigation measure is being implemented, and generally involves the following steps:

- The City distributes reporting forms to the appropriate entities for verification of compliance.
- Departments/agencies with reporting responsibilities will review the Initial Study, which provides general background information on the reasons for including specified mitigation measures.
- Problems or exceptions to compliance will be addressed to the City as appropriate.
- Periodic meetings may be held during project implementation to report on compliance of mitigation measures.
- Responsible parties provide the City with verification that monitoring has been conducted and ensure, as applicable, that mitigation measures have been implemented. Monitoring compliance may be documented through existing review and approval programs such as field inspection reports and plan review.
- The City prepares a reporting form periodically during the construction phase and an annual report summarizing all project mitigation monitoring efforts.



- Appropriate mitigation measures will be included in construction documents and/or conditions of permits/approvals.

Minor changes to the Mitigation Monitoring and Reporting Program, if required, would be made in accordance with CEQA and would be permitted after further review and approval by the City. Such changes could include reassignment of monitoring and reporting responsibilities, program redesign to make any appropriate improvements, and/or modification, substitution, or deletion of mitigation measures subject to conditions described in CEQA Guidelines Section 15162. No change will be permitted unless the Mitigation Monitoring and Reporting Program continues to satisfy the requirements of Public Resources Code Section 21081.6.

2.0 MITIGATION MONITORING AND REPORTING CHECKLIST



Mitigation Number	Mitigation Measure	Monitoring Phase	Enforcement Agency	Monitoring Agency	Action Indicating Compliance	VERIFICATION OF COMPLIANCE		
						Initials	Date	Remarks
AIR QUALITY								
AQ-1	<p>During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions must be controlled by regular water or other dust preventive measures using the following procedures, as specified in the SCAQMD Rule 403.</p> <ul style="list-style-type: none"> ▪ Limit on-site vehicle speed to 15 miles per hour. ▪ Water material excavated or graded sufficiently to prevent excessive amounts of dust. Water at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. ▪ Water or securely cover material transported on-site or off-site sufficiently to prevent generating excessive amounts of dust. ▪ Minimize area disturbed by clearing, grading, earth moving, or excavation operations so as to prevent generating excessive amounts of dust. ▪ Indicate these control techniques in project specifications. Compliance with the measure will be subject to periodic site inspections by the City. ▪ Prevent visible dust from the project 	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Development Services	Approval of Plans/Field Verification			



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	<p>from emanating beyond the property line, to the maximum extent feasible.</p> <ul style="list-style-type: none"> ▪ Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for ten days or more). ▪ Trucks transporting soil, sand, cut or fill materials, and/or construction debris to or from the site must be tarped from the point of origin. 							
AQ-2	Ozone precursor emissions from construction equipment vehicles must be controlled by maintaining equipment engines in good condition and in proper tune per manufacturer's specifications, to the satisfaction of the City Engineer. Compliance with this measure must be subject to periodic inspections of construction equipment vehicles by the City and included in construction bid documents.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Development Services	Approval of Plans/ Field Inspection			
AQ-3	All trucks that are to haul material must comply with California Vehicle Code Section 23114, with special attention to Sections 23114(b)(F), (e)(2) and (e)(4) as amended, regarding the prevention of such material spilling onto public streets and roads. This provision must be provided in construction bid documents.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Development Services	Approval of Plans/ Field Inspection			
AQ-4	Construction hours, allowable work days, and phone numbers of the job superintendent must be clearly posted at all construction entrances to allow for surrounding property owners and residents to contact the job superintendent. If the	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach	City of Long Beach Public Works/ City of Long Beach	Field Inspection			



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	job superintendent receives a complaint, appropriate corrective actions must be implemented immediately and a report taken to the reporting party.		Development Services/ Construction Contractor	Development Services				
AQ-5	Backup generators shall be used only for emergency operations. All backup generators shall be selected in consultation with the SCAQMD from their list of certified internal combustion engines.	Pre-Construction/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach Development Services/ Construction Contractor	City of Long Beach Public Works/ South Coast Air Quality Management District	Approval of Plans/ Field Inspection			
CULTURAL RESOURCES								
CUL-1	If cultural materials or archeological remains are encountered during the course of grading or construction activities, the project contractor shall cease any ground disturbing activities near the find. A qualified archaeologist, approved by the City of Long Beach, shall be retained to evaluate significance of the resources and recommend appropriate treatment measures. Treatment measures may include avoidance, preservation, removal, data recovery, protection, or other measures developed in consultation with the City of Long Beach.	Ongoing During Construction	City of Long Beach Development Services/ Construction Contractor	City of Long Beach Development Services	Field Inspection			
GEOLOGY AND SOILS								
GEO-1	Prior to grading operations, a soils report shall be prepared for the proposed development to identify the potential for liquefaction, expansive soils, ground settlement, and slope failure. The report shall also:	Prior to Issuance of Grading Permit	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Public Works	Approval of Plans			



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	<ul style="list-style-type: none"> ▪ Specify loose alluvium that shall be excavated and removed from the site, as it is considered unsuitable for reuse as structural fill. ▪ Specify remedial measures that could be feasibly implemented to minimize potential impact. ▪ Analyze the potential for groundwater within the study area and recommend measures to remediate associated conditions. ▪ Determine the need for dewatering of areas during construction to remove all water within the excavation perimeter and recommend appropriate method of dewatering. 							
HAZARDS AND HAZARDOUS MATERIALS								
HAZ-1	Prior to construction activities, an Environmental Professional shall conduct Phase II sampling on the Southern California Edison property within the area of disturbance to confirm or deny the presence of pesticides. Should sampling deny the presence of pesticides, sampling procedures would be deemed complete. Should sampling confirm the presence of pesticides, the Environmental Professional shall recommend further site characterization and/or remedial actions, if necessary.	Pre-Construction/ Prior to Issuance of Grading Permit	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Development Services	Field Inspection/ Determination of Environmental Professional			
HAZ-2	Prior to construction activities, the exact location of petroleum pipelines along River Avenue and within the footprint of the proposed detention unit	Pre-Construction/ Prior to Issuance of Grading Permit	City of Long Beach Public Works/	City of Long Beach Development	Field Inspection/ Confirmation of Pipeline Locations			



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	on the Southern California Edison property shall be identified. The City of Long Beach shall confirm the locations with the following petroleum pipeline owners: ConcoPhillips, Defense Energy Support Center, Kinder Morgan, Pacific Pipeline System, and Paramount.		City of Long Beach Development Services	Services				
NOISE								
NOI-1	<p>Prior to site mobilization, a construction management plan shall be prepared which includes the following:</p> <ul style="list-style-type: none"> ▪ All construction equipment, fixed or mobile, shall be equipped with properly operating and maintained mufflers; ▪ Construction noise reduction methods such as shutting off idling equipment, installing temporary acoustic barriers around stationary construction noise sources, maximizing the distance between construction equipment staging areas and occupied residential areas, and use of electric air compressors and similar power tools, rather than diesel equipment, shall be used where feasible; ▪ During construction, stationary construction equipment shall be placed such that emitted noise is directed away from sensitive noise receivers; 	Prior to Issuance of Grading Permit/ Ongoing During Construction	City of Long Beach Public Works/ City of Long Beach Development Services	City of Long Beach Development Services	Field Inspection			



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	<ul style="list-style-type: none"> ▪ During construction, stockpiling and vehicle staging areas shall be located as far as practical from noise sensitive receptors; ▪ Operate earthmoving equipment on the construction site, as far away from vibration sensitive sites as possible; and ▪ Property owners and occupants located within 100 feet of the project boundary shall be sent a notice, at least 15 days prior to commencement of construction of each phase, regarding the construction schedule of the proposed project. A sign, legible at a distance of 50 feet shall also be posted at the project construction site. All notices and signs shall indicate the dates and duration of construction activities, as well as provide a contact name and a telephone number where residents can inquire about the construction process and register complaints. 							