

Terminal Island (Pier 400) Railyard Enhancement Project

DRAFT MITIGATION MONITORING AND REPORTING PROGRAM

Document considered draft until Board considers document

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Table 1. Mitigation Measures for the Terminal Island (Pier 400) Railyard Enhancement Project

Mitigation Measure	Timings and Methods	Responsible Party
<p>MM-BIO-1: Protect Marine Mammals. Although it is expected that marine mammals will voluntarily move away from the area at the commencement of vibratory or “soft start” pile driving, as a precautionary measure, pile driving activities occurring as part of pile installation will include establishment of a safety zone by a qualified marine mammal professional, and the area surrounding the operations (including the safety zones) will be zones) will be monitored for marine mammals by a qualified marine mammal observer.¹ The pile driving site will move with each new pile; therefore, the safety zones will move accordingly as necessary.</p>	<p>Timing: Throughout pile driving operations. Methods: LAHD shall include this measure in the contract specifications for construction. LAHD shall monitor implementation of mitigation measures during construction.</p>	<p>Implementation: Construction Contractor Monitoring and Reporting: Environmental Management Division (EMD) and Construction Management Division.</p>
<p>MM-BIO-2: Protect Eelgrass. The proposed Project shall comply with the California Eelgrass Mitigation Policy. Pursuant to the Policy, the following activities shall be performed:</p> <ul style="list-style-type: none"> • A pre-construction eelgrass survey to map the location and extent of eelgrass that could potentially be affected by wharf demolition and construction; • Use of minimization measures or Best Management Practices, such as silt curtains, to reduce potential effects to eelgrass during Project construction (if present); • A post-construction eelgrass survey to map the location and extent of eelgrass after completion of wharf demolition and construction; • If eelgrass is lost due to Project construction, eelgrass shall be mitigated in accordance with the California Eelgrass Mitigation Policy. 	<p>Timing: pre-construction and post-construction. Methods: LAHD shall monitor implementation of mitigation measures during construction.</p>	<p>Implementation: Construction Contractor Monitoring and Reporting: EMD and Construction Management Division.</p>

¹ Marine mammal professional qualifications shall be identified based on criteria established by LAHD during the construction bid specification process. Upon selection as part of the construction award winning team, the qualified marine mammal professional shall develop site specific pile driving safety zone requirements, which shall follow NOAA Fisheries Technical Guidance Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (NOAA Fisheries 2016) in consultation with the Acoustic Threshold White Paper prepared for this purpose by LAHD (LAHD 2017b). Final pile driving safety zone requirements developed by the selected marine mammal professional shall be submitted to LAHD Construction and Environmental Management Divisions.

Mitigation Measure	Timings and Methods	Responsible Party
<ul style="list-style-type: none"> Timing of eelgrass surveys, including the frequency of post-mitigation surveys (if applicable), shall comply with provisions in the California Eelgrass Mitigation Policy. 		
<p>MM-BIO-3: Nesting Bird Protection. If construction occurs between mid-January and mid-September, prior to tree removal, the clearing, removal, or grubbing of any vegetation, or ground disturbing activities (“construction activity”), a qualified biologist will conduct surveys for the presence of nesting birds. Surveys will be conducted 24 - 72 hours prior to the construction activity. If an active nest is found, a work buffer of 150 feet will be established to avoid disturbance of the nest for most bird species. For raptors, a safety buffer of 300 feet will be required. The construction activity will be delayed in the buffer until the chicks are fledged and the area is approved for construction activity by the qualified biologist.</p>	<p>Timing: Prior to construction. Methods: LAHD shall monitor implementation of mitigation measures prior to and during construction. Surveys will be conducted 24 - 72 hours prior to the construction activity.</p>	<p>Implementation: Construction Contractor Monitoring and Reporting: EMD and Construction Management Division.</p>