

MITIGATION MONITORING AND REPORTING PROGRAM

Potential impacts associated with biological resources, hazards and hazardous materials, noise, public services, recreation, and transportation/traffic were identified in the Initial Study and Final MND, but were found to be reduced to less-than-significant levels through the application of those mitigation measures described above and in Table 1 below.

Table 1. Shelter Island Boat Launch Facility Improvements Project and Port Master Plan Amendment MND Final Mitigation Monitoring and Reporting Program			
Mitigation Measure(s)	Responsible Party	Mitigation Timing	Monitoring and Reporting Procedures
Biological Resources			
<p>B-1 Impacts from effects to eelgrass shall be mitigated according to the California Eelgrass Mitigation Policy (CEMP), with replanting of eelgrass at a 1.2:1 ratio (NMFS 2014). Pursuant to the CEMP, pre- and post-construction surveys shall determine the exact amount of eelgrass affected by Project activities. Prior to the commencement of construction, the Project Applicant shall retain a qualified biologist to conduct a pre-construction eelgrass survey per the CEMP to quantify the amount of existing eelgrass within the Project area. The name of the retained contractor and proposed survey plan, including a schedule, shall be submitted to the District before initiation of survey work. A monitoring program consisting of a pre-construction eelgrass survey and three post-construction eelgrass surveys at the impact site and appropriate reference site(s) will be performed (NMFS 2014). The first post-construction eelgrass survey will be completed within 30 days following completion of construction to evaluate any immediate effects to eelgrass habitat. The second post-construction survey will be performed approximately one year after the first post-construction survey during the appropriate growing season. The third post-construction survey will be performed approximately two years after the first post-construction survey during the appropriate growing season. The second and third post-construction surveys will be used to evaluate if indirect effects resulted later in time due to altered physical conditions; the time frames identified above are aligned with growing season (attempting a survey outside of the</p>	District	Pre- and Post-Project construction	District shall conduct surveys and implement the mitigation plan. District shall maintain survey reports in Project files.

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<p>growing season would show inaccurate results).</p> <p>A final determination regarding the actual impact and amount of mitigation needed at the above-stated ratio, if any, to offset impacts should be made based upon the results of two annual post-construction surveys, which document the changes in the eelgrass habitat (areal extent, bottom coverage, and shoot density within eelgrass) in the vicinity of the action, compared to eelgrass habitat change at the reference site(s). Any impacts determined by these monitoring surveys would be mitigated. Two possible areas for on-site mitigation of eelgrass have been identified generally between the new east dock and the existing east jetty. Before implementation of the mitigation, the Project Applicant shall submit a mitigation plan to the District's Environmental and Land Use Management department and resource agencies for review and approval.</p>			
<p>B-2 To mitigate potentially significant impacts to sensitive fish species, bird species, eastern Pacific green sea turtles, and marine mammals to less than significant, the following measures shall be implemented:</p> <ol style="list-style-type: none"> 1. An on-site biological observer shall be present during pile driving activities with the authority to stop construction if a sensitive fish species, green sea turtle, or marine mammal approaches or enters the shutdown zone. The shutdown zone is the area within 10 meters of construction activities or inside the 190 dB rms isopleths for green sea turtle and marine mammal cetaceans or 180 dB rms for marine mammal pinnipeds. Prior to the start of pile-driving activities, the biological observer shall monitor the shutdown zone for 15 minutes to ensure that sensitive fish species, green sea turtles, and marine mammals are not present. If a sensitive fish species, green sea turtle, or marine mammal approaches 	District	During Project construction	District shall implement the mitigation plan. District shall maintain monitoring reports in Project files.

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<p>or enters the shutdown zone during the pile-driving activities, the biological observer shall notify the construction contractor to stop the activity. The pile-driving activities shall be stopped and delayed until the biological observer visually confirms either that the animal has voluntarily left the shutdown zone and is beyond the shutdown zone, or 15 minutes have passed without re-detection of the animal. If the on-site biological observer determines that weather conditions prevent the visual detection of sensitive fish species, green sea turtles, or marine mammals in the shutdown zone, such as heavy fog, in-water construction activities with the potential to result in Level A Harassment (injury) shall not be conducted until conditions change.</p> <p>2. Biological monitoring shall be conducted by qualified observers. The observer shall be placed in the best vantage point practicable to monitor, and when applicable, shall communicate directly with the construction superintendent and/or hammer operator.</p> <p>3. During all observation periods, observers shall use binoculars and the naked eye to scan continuously for sensitive fish species, green sea turtles, and marine mammals. As part of the monitoring process the observer shall collect sighting data and behavioral responses to construction from sensitive fish species, green sea turtles, and marine mammals observed in the Project area of activity during the period of construction. The observer shall record any sensitive fish species, marine mammal, green sea turtle, or California least tern sightings, and submit the sighting records to the District within 60 days of the completion of the mitigation monitoring with a summary of observations.</p>			

Hazards and Hazardous Materials			
<p>T-1 Construction truck traffic hauling sediment or materials to or from the Project site shall not occur between the AM peak hours of 7 a.m. and 9 a.m, and shall be limited to no more than five loads per hour during the PM hours of 4 p.m. to 6 p.m. The Project Applicant shall include this restriction in the construction specification documents for the Project. Prior to issuance of the construction specification documents for bid, the Project Applicant shall submit a copy of the construction specification documents to the District's Environmental and Land Use Management department for approval. The contractor shall maintain hauling/delivery logs on the site for the District's review, and the Project Applicant shall submit a copy of the contractor's hauling/delivery logs to the District's Environmental and Land Use Management department for review.</p>	<p>District and Contractor</p>	<p>During Project construction</p>	<p>District shall place truck hauling restrictions in bid specifications. Contractor shall maintain hauling/delivery logs on the site.</p>
Noise			
<p>N-1 To avoid noise impacts from impact-type pile driving, vibratory-type pile driving techniques or other quieter methods, such as jetting, shall be used in place of impact-type pile driving to the extent feasible. The Project Applicant shall include this measure in the construction specification documents for the Project. Prior to issuance of the construction specification documents for bid, the Project Applicant shall submit a copy of the construction specification documents to the District's Environmental and Land Use Management department for approval.</p>	<p>District and Contractor</p>	<p>During Project construction</p>	<p>District shall place use of alternative pile-driving methods in bid specifications. District shall review contractor construction methods.</p>
<p>N-2 If impact-type pile driving construction techniques cannot be avoided, the use of all passive recreational areas shall be restricted within a distance of 777 feet from the pile driving activity during all impact-type pile driving activities. Prior to the commencement of impact-type pile driving activities, the Project Applicant shall cordon off and post public notices informing of the construction activity in all public recreational areas within a distance of 777 feet from the pile driving activity. The Project Applicant shall include this measure in the construction specification documents for the Project. Prior to issuance of the construction specification documents for bid, the Project Applicant shall</p>	<p>District and Contractor</p>	<p>During Project construction</p>	<p>District shall place recreational use restrictions in bid specifications. Project Applicant shall submit documentation demonstrating compliance with this measure.</p>

submit a copy of the construction specification documents to the District's Environmental and Land Use Management department for approval. Prior to the commencement of impact-type pile driving activities, the Project Applicant shall submit documentation to the District's Environmental and Land Use Management department demonstrating compliance with this measure.			
Public Services			
See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1
Recreation			
See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1	See Mitigation Measures B-1, B-2, N-1, N-2, and T-1
Transportation/Traffic			
T-1 Construction truck traffic hauling sediment or materials to or from the Project site shall not occur between the AM peak hours of 7 a.m. and 9 a.m, and shall be limited to no more than five loads per hour during the PM hours of 4 p.m. to 6 p.m. The Project Applicant shall include this restriction in the construction specification documents for the Project. Prior to issuance of the construction specification documents for bid, the Project Applicant shall submit a copy of the construction specification documents to the District's Environmental and Land Use Management department for approval. The contractor shall maintain hauling/delivery logs on the site for the District's review, and the Project Applicant shall submit a copy of the contractor's hauling/delivery logs to the District's Environmental and Land Use Management department for review.	District and Contractor	During Project construction	District shall place truck hauling restrictions in bid specifications. Contractor shall maintain hauling/delivery logs on the site.

The Project, with the incorporation of mitigation measures and monitoring program, will have no significant impact on the environment with respect to biological resources, hazards and hazardous materials, noise, public services, recreation, and transportation/traffic, nor would the Project otherwise have potentially significant adverse impacts to aesthetics, agriculture and forestry resources, air quality, cultural resources, geology and soils, greenhouse gas emissions, hydrology and water quality, land use and planning, mineral and energy resources, population and housing, and utilities and service systems.