

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) was formulated based on the findings of the Initial Study prepared for the Paradise Beach Park Master Plan. The purpose of the MMRP is to ensure the implementation of mitigation measures identified as part of the environmental review for the project.

The MMRP (Table 1) lists mitigation measures recommended in the Initial Study and identifies mitigation monitoring requirements. The column entitled “Mitigation Responsibility” identifies the party responsible for carrying out the required actions. The columns entitled “Monitoring/Reporting Agency” and “Monitoring Schedule” identify the party ultimately responsible for ensuring that the mitigation measure is implemented and the approximate timeframe for the oversight agency to ensure implementation of the mitigation measure. The column entitled “Verification of Compliance” will be used by the County of Marin to document the person who verified the implementation of the mitigation measure and the date on which this verification occurred.

The County of Marin must adopt a MMRP or an equally effective program, if it approves the proposed project with the mitigation measures included in the Initial Study. Public Resources Code, Section 21081.6(a) requires an agency to adopt a program for reporting or monitoring mitigation measures that were adopted or made conditions of project approval.

Table 1: Mitigation Monitoring and Reporting Program

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
A. AESTHETICS					
<i>There are no significant Aesthetic impacts, therefore no mitigation measures are required.</i>					
B. AGRICULTURE AND FOREST RESOURCES					
<i>There are no significant Agriculture and Forest Resources impacts, therefore no mitigation measures are required.</i>					
C. AIR QUALITY					
<i>There are no significant Air Quality impacts, therefore no mitigation measures are required.</i>					
D. BIOLOGICAL RESOURCES					
<p>Mitigation Measure BIO-1: Appropriately timed surveys shall be completed for Brewer’s Calandrinia and coastal triquetrella in habitat with potential to support these species prior to commencement of any future development. If rare plants are detected during pre-construction surveys, they shall be flagged and avoided. If rare plants cannot be avoided, the County shall provide compensatory mitigation as deemed appropriate by the California Department of Fish and Wildlife (CDFW).</p>	<p>Monitoring Measure BIO-1: County Parks staff shall verify that Mitigation Measure BIO-1 complies with mitigation standards and has been properly implemented.</p>	Marin County Parks/ Biological Monitor	Prior to construction of any proposed improvements.	Marin County Parks	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
<p>Mitigation Measure BIO-2: Potential adverse effects to special-status fish, Essential Fish Habitat (EFH), and critical habitat shall be avoided or minimized by following the measures outlined below.</p> <ol style="list-style-type: none"> 1. All work below the elevation of the Mean High Water (MHW) shall be restricted to low tides so that all work is conducted out of water. 2. The work windows for in-water work are informed by National Oceanic and Atmospheric Administration (NOAA) Fisheries recommendations for avoidance of potential impacts to fish species in this region of the Bay. In-water work conducted within the work window will minimize the possibility that project activities may impact fish species, as listed fish species are less likely to utilize the project site as a migratory corridor during this period. Although approved work windows exist for steelhead and juvenile Chinook salmon (June 1 through November 30), and Pacific herring (March 1 through November 30), there are no 	<p>Monitoring Measure BIO-2: County Parks staff shall verify that Mitigation Measure BIO-2 complies with mitigation standards and has been properly implemented.</p>	Marin County Parks/ Biological Monitor	Prior to and during construction of any proposed improvements.	Marin County Parks	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

Table 1 *Continued*

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
<p>approved work windows for green sturgeon, longfin smelt, and river lamprey. If in-water work is done outside of the approved work windows for a particular species, consultation with United States Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS) and/or CDFW will be required and undertaken. Any mitigation, avoidance, and minimization measures resulting from this consultation shall be implemented by County Parks to avoid and minimize impacts to listed fish species in accordance with the California Endangered Species Act (CESA) and Federal Endangered Species Act (FESA). Such measures may include conducting additional surveys and conducting construction activities in aquatic habitat in the presence of a qualified biological monitor.</p> <p>3. A turbidity curtain shall be used around the area of rip-rap placement or during periods when project activities will disturb San Francisco Bay sediment.</p> <p>4. Any existing wall material or other debris removed from the Bay shall be removed expeditiously and placed in a containment area. Removed material shall not be shaken, hosed-off, left hanging to drip, or result in any other action that would allow debris or sediment to enter Bay waters.</p> <p>5. Impacts to eelgrass shall be avoided or, if avoidance is not feasible, minimized. Minimization measures may include actions to limit turbidity, light reduction, sediment loading, and circulation patterns by minimizing scouring velocities near eelgrass.</p> <p>6. A spill response and prevention plan shall be prepared and personnel conducting project activities shall understand and be capable of responding to oil, gas, or other chemical spills to prevent contamination of the Bay and injury to personnel.</p>					

Table 1 *Continued*

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
<p>7. Fueling of equipment shall take place within existing paved roads, and not within or adjacent to drainages or bay waters. Contractor equipment shall be checked for leaks prior to operation and repaired as necessary. “No-fueling zones” shall be designated on construction maps and shall be situated a minimum distance of 50 feet from all drainages and bay waters.</p> <p>8. An erosion control plan shall be prepared by the contractor for the purpose of minimizing erosion and siltation into off-site areas during construction. The County shall be responsible for ensuring that the erosion control plan is developed and implemented in accordance with National Pollution Discharge Elimination System (NPDES) requirements. The plan shall include the use of hay bales, silt fences, siltation basins, or other devices necessary to stabilize the soil in denuded or graded areas during the construction and revegetation phases of the project.</p>					
<p>Mitigation Measure BIO-3: If brush and vegetation removal occurs between February 1 and September 1, preconstruction breeding bird surveys shall be conducted in the vicinity and within 14 days of ground disturbance to avoid disturbance to active nests, eggs, and/or young of Allen’s hummingbird, long-eared owl, Nuttall’s woodpecker, oak titmouse, olive-sided flycatcher, and non-special-status birds within the project site. If an active nest is located for a special-status species or species protected by the Migratory Bird Treaty Act (MBTA), construction activities shall not occur within 100 feet of the nest, or as determined by a qualified biologist, until chicks have fledged or the biologist determines the nest is no longer active. Potential adverse effects to nesting birds shall be avoided or minimized either by scheduling all work outside of the bird nesting season or by conducting a pre-construction survey and establishing appropriate protection buffers and monitoring around any active nest.</p>	<p>Monitoring Measure BIO-3: County Parks staff shall verify that Mitigation Measure BIO-3 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks/Biological Monitor</p>	<p>Prior to construction of any proposed improvements.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i> <i>Date:</i></p>

Table 1 *Continued*

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
<p>Mitigation Measure BIO-4: A bat roost assessment shall be conducted to determine the potential for bat species to roost within buildings within the project site. If the bat assessment determines there is potential for bat roosting, pre-construction bat surveys shall be conducted prior to construction or demolition activities, especially during the maternity season from April 1 to August 31. Depending on bat species and roost type found during surveys, consultation with CDFW and habitat mitigation may be necessary and if so, would be implemented by the County Parks.</p>	<p>Monitoring Measure BIO-4: County Parks staff shall verify that Mitigation Measure BIO-4 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks</p>	<p>Bat survey to be conducted prior to construction of proposed improvements.</p> <p>Mitigation, as needed, to be implemented during construction activities.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
<p>Mitigation Measure BIO-5: All necessary authorizations from the Army Corps of Engineers, Regional Water Quality Control Board (RWQCB), and Bay Conservation and Development Commission (BCDC) shall be obtained for future development occurring within tidal waters or in beach habitat. Corps and RWQCB authorization shall be sought for all work occurring below the elevation of the High Tide Line (HTL). BCDC authorization shall be sought for all work occurring within their Bay and 100-foot shoreline band jurisdiction.</p>	<p>Monitoring Measure BIO-5: County Parks staff shall verify that Mitigation Measure BIO-5 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks</p>	<p>Prior to construction of any proposed improvements.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
<p>E. CULTURAL RESOURCES</p>					
<p>Mitigation Measure CULT-1: The location of site CA-MRN-641 shall be excluded from future development. Historical photographs suggest that construction for the Navy's drydock school did not extend to the location of this site, and while the site has had some disturbance from Park activities, its ability to yield important data is not necessarily impaired. No further ground disturbing work shall occur in this area without having a treatment plan in place.</p>	<p>Monitoring Measure CULT-1: County Parks staff shall verify that Mitigation Measure CULT-1 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks</p>	<p>During construction of any proposed improvements.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
<p>Mitigation Measure CULT-2: Prior to the start of construction requiring ground disturbance outside the existing development footprint or within 200 feet of a known cultural resource or tribal cultural resource, an agreement shall be executed between the County and a qualified archaeologist or cultural monitor to monitor all project construction activities.</p> <p>In addition, the following note shall be included on the</p>	<p>Monitoring Measure CULT-2: County Parks staff shall verify that Mitigation Measure CULT-2 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks/ Registered Professional Archaeologist/ Cultural Monitor</p>	<p>Prior to construction of any proposed improvements.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

Table 1 *Continued*

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
<p>final site plans:</p> <p>“If any archaeological artifacts, exotic rock (non-native), or unusual amounts of shell or bone are uncovered during any onsite construction activities, all work must stop immediately in the area and the County must be notified. A qualified archaeologist, or cultural monitor designated by the County in consultation with the Federated Indians of Graton Rancheria (FIGR) must evaluate the deposit. Work in the area may only proceed after authorization is granted by the County.”</p> <p>Prior to work proceeding the County will develop a tribal treatment plan in consultation with FIGR.</p>					
F. GEOLOGY AND SOILS					
<p>Mitigation Measure GEO-1: Marin County Parks shall conduct a Geotechnical Report for any further design work. The report should address both Civil and Structural design considerations including: on-site landslides near the beach, soil infiltration rates, typical paving sections for vehicular and emergency vehicles, California Building Code (CBC) seismic parameters, allowable active, passive and seismic soil bearing pressures, limits for temporary excavations, and recommended foundation types. With the implementation of CBC design standards coupled with required geotechnical studies, impacts related to potential geologic and soil hazards will be reduced to a less-than-significant level.</p>	<p>Monitoring Measure GEO-1: Marin County Parks staff shall verify that Mitigation Measure GEO-1 complies with mitigation standards and has been properly implemented.</p>	<p>Marin County Parks/ Licensed Geotechnical Professional</p>	<p>Prior to grading, excavation, and construction of any improvements.</p>	<p>Marin County Parks</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>
G. GREENHOUSE GAS EMISSIONS					
<p><i>There are no significant Greenhouse Gas Emissions impacts, therefore no mitigation measures are required.</i></p>					
H. HAZARDS AND HAZARDOUS MATERIALS					
<p><i>There are no significant Hazards and Hazardous Materials impacts, therefore no mitigation measures are required.</i></p>					
I. HYDROLOGY AND WATER QUALITY					
<p><i>There are no significant Hydrology and Water Quality impacts, therefore no mitigation measures are required.</i></p>					
J. LAND USE AND PLANNING					
<p><i>There are no significant Land Use and Planning impacts, therefore no mitigation measures are required.</i></p>					
K. MINERAL RESOURCES					
<p><i>There are no significant Mineral Resources impacts, therefore no mitigation measures are required.</i></p>					

Table 1 *Continued*

Mitigation Measures	Monitoring Measures	Implemented By	When Implemented	Monitored By	Verified By and Date
L. NOISE					
<i>There are no significant Noise impacts, therefore no mitigation measures are required.</i>					
M. POPULATION AND HOUSING					
<i>There are no significant Population and Housing impacts, therefore no mitigation measures are required.</i>					
N. PUBLIC SERVICES					
<i>There are no significant Public Services impacts, therefore no mitigation measures are required.</i>					
O. RECREATION					
<i>There are no significant Recreation impacts, therefore no mitigation measures are required.</i>					
P. TRANSPORTATION/TRAFFIC					
<i>There are no significant Transportation/Traffic impacts, therefore no mitigation measures are required.</i>					
Q. UTILITIES AND SERVICE SYSTEMS					
<i>There are no significant Utilities and Service System impacts, therefore no mitigation measures are required.</i>					