

Table 1. MSHCP BMPs and Species-Specific Mitigation Measures

MSHCP BMPs (MSHCP Vol. I, Appendix C)	
MSHCP BMP-1	A condition shall be placed on grading permits requiring a qualified biologist to conduct a training session for project personnel prior to grading. The training shall include a description of the species of concern and its habitats, the general provisions of the ESA and the MSHCP, the need to adhere to the provisions of the ESA and the MSHCP, the penalties associated with violating the provisions of the ESA, the general measures that are being implemented to conserve the species of concern as they relate to the project, and the access routes to and project site boundaries within which the project activities must be accomplished.
MSHCP BMP-2	Water pollution and erosion control plans shall be developed and implemented in accordance with RWQCB requirements.
MSHCP BMP-3	The footprint of disturbance shall be minimized to the maximum extent feasible. Access to sites shall be via pre-existing access routes to the greatest extent possible.
MSHCP BMP-4	The upstream and downstream limits of projects disturbance plus lateral limits of disturbance on either side of the stream shall be clearly defined and marked in the field and reviewed by the biologist prior to initiation of work.
MSHCP BMP-5	Projects should be designed to avoid the placement of equipment and personnel within the stream channel or on sand and gravel bars, banks, and adjacent upland habitats used by target species of concern.
MSHCP BMP-6	Projects that cannot be conducted without placing equipment or personnel in sensitive habitats should be timed to avoid the breeding season of riparian identified in MSHCP Global Species Objective No. 7.
MSHCP BMP-7	When stream flows must be diverted, the diversions shall be conducted using sandbags or other methods requiring minimal instream impacts. Silt fencing of other sediment trapping materials shall be installed at the downstream end of construction activity to minimize the transport of sediments off-site. Settling ponds where sediment is collected shall be cleaned out in a manner that prevents the sediment from reentering the stream. Care shall be exercised when removing silt fences, as feasible, to prevent debris or sediment from returning to the stream.
MSHCP BMP-8	Equipment storage, fueling, and staging areas shall be located on upland sites with minimal risks of direct drainage into riparian areas or other sensitive habitats. These designated areas shall be located in such a manner as to prevent any runoff from entering sensitive habitat. Necessary precautions shall be taken to prevent the release of cement or other toxic substances into surface waters. Project related spills of hazardous materials shall be reported to appropriate entities including but not limited to applicable jurisdictional city, FWS, and CDFW, RWQCB and shall be cleaned up immediately and contaminated soils removed to approved disposal areas.
MSHCP BMP-9	Erodible fill material shall not be deposited into watercourses. Brush, loose soils, or other similar debris material shall not be stockpiled within the stream channel or on its banks.
MSHCP BMP-10	The qualified project biologist shall monitor construction activities for the duration of the project to ensure that practicable measures are being employed to avoid incidental disturbance of habitat and species of concern outside the project footprint.
MSHCP BMP-11	The removal of native vegetation shall be avoided and minimized to the maximum extent practicable. Temporary impacts shall be returned to pre-existing contours and revegetated with appropriate native species.
MSHCP BMP-12	Exotic species that prey upon or displace target species of concern should be permanently removed from the site to the extent feasible.
MSHCP BMP-13	To avoid attracting predators of the species of concern, the project site shall be kept as clean of debris as possible. All food related trash items shall be enclosed in sealed containers and regularly removed from the site(s).
MSHCP BMP-14	Construction employees shall strictly limit their activities, vehicles, equipment, and construction materials to the proposed project footprint and designated staging areas and routes of travel. The construction area(s) shall be the minimal area necessary to complete the project and shall be specified in the construction plans. Construction limits will be fenced with orange snow screen. Exclusion fencing should be maintained

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	until the completion of all construction activities. Employees shall be instructed that their activities are restricted to the construction areas.
MSHCP BMP-15	The Permittee shall have the right to access and inspect any sites of approved projects including any restoration/enhancement area for compliance with project approval conditions including these BMPs.
MSHCP Construction Guidelines (MSHCP Section 7.5.3)	
MSHCP-CONST-1	Plans for water pollution and erosion control will be prepared for all Discretionary Projects involving the movement of earth in excess of 50 cubic yards. The plans will describe sediment and hazardous materials control, dewatering or diversion structures, fueling and equipment management practices, use of plant material for erosion control. Plans will be reviewed and approved by the County of Riverside and participating jurisdiction prior to construction.
MSHCP-CONST-2	Timing of construction activities will consider seasonal requirements for breeding birds and migratory non-resident species. Habitat clearing will be avoided during species active breeding season defined as 1 March to 30 June.
MSHCP-CONST-3	Sediment and erosion control measures will be implemented until such time soils are determined to be successfully stabilized.
MSHCP-CONST-4	Short-term stream diversions will be accomplished by use of sand bags or other methods that will result in minimal instream impacts. Short-term diversions will consider effects on wildlife.
MSHCP-CONST-5	Silt fencing or other sediment trapping materials will be installed at the downstream end of construction activities to minimize the transport of sediments off-site.
MSHCP-CONST-6	Settling ponds where sediment is collected will be cleaned in a manner that prevents sediment from re-entering the stream or damaging/disturbing adjacent areas. Sediment from settling ponds will be removed to a location where sediment cannot re-enter the stream or surrounding drainage area. Care will be exercised during removal of silt fencing to minimize release of debris or sediment into streams.
MSHCP-CONST-7	No erodible materials will be deposited into watercourses. Brush, loose soils, or other debris material will not be stockpiled within stream channels or on adjacent banks.
MSHCP-CONST-8	The footprint of disturbance will be minimized to the maximum extent Feasible. Access to sites will occur on pre-existing access routes to the greatest extent possible.
MSHCP-CONST-9	Equipment storage, fueling and staging areas will be sited on non-sensitive upland Habitat types with minimal risk of direct discharge into riparian areas or other sensitive Habitat types.
MSHCP-CONST-10	The limits of disturbance, including the upstream, downstream and lateral extents, will be clearly defined and marked in the field. Monitoring personnel will review the limits of disturbance prior to initiation of construction activities.
MSHCP-CONST-11	During construction, the placement of equipment within the stream or on adjacent banks or adjacent upland Habitats occupied by Covered Species that are outside of the project footprint will be avoided.
MSHCP-CONST-12	Exotic species removed during construction will be properly handled to prevent sprouting or regrowth.
MSHCP-CONST-13	Training of construction personnel will be provided.
MSHCP-CONST-14	Ongoing monitoring and reporting will occur for the duration of the construction activity to ensure implementation of BMPs.

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MSHCP-CONST-15	When work is conducted during the fire season (as identified by the Riverside County Fire Department) adjacent to coastal sage scrub or chaparral vegetation, appropriate fire-fighting equipment (e.g., extinguishers, shovels, water tankers) shall be available on the site during all phases of project construction to help minimize the chance of human-caused wildfires. Shields, protective mats, and/or other fire preventative methods shall be used during grinding, welding, and other spark-inducing activities. Personnel trained in fire hazards, preventative actions, and responses to fires shall advise contractors regarding fire risk from all construction-related activities.
MSHCP-CONST-16	Active construction areas shall be watered regularly to control dust and minimize impacts to adjacent vegetation.
MSHCP-CONST-17	All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other toxic substances shall occur only in designated areas within the proposed grading limits of the project site. These designated areas shall be clearly marked and located in such a manner as to contain run-off.
MSHCP-CONST-17	Waste, dirt, rubble, or trash shall not be deposited in the Conservation Area or on native habitat.
MSHCP Species/Habitat Specific Measures	
MSHCP-CAGN	Riversidian sage scrub habitat will not be cleared during the CAGN breeding season 15 February to 15 August. Clearing must be limited to the non-breeding season.
MSHCP-BUOW	If BUOW are detected on the project site then the action(s) taken will be as follows: If the site is within the Criteria Area, then at least 90 percent of the area with long-term conservation value will be included in the MSHCP Conservation Area. Otherwise: If the site contains, or is part of an area supporting less than 35 acres of suitable habitat or the survey reveals that the site and the surrounding area supports fewer than 3 pairs of BUOW, then the on-site BUOW will be passively or actively relocated following accepted protocols. If the site (including adjacent areas) supports three or more pairs of BUOW, supports greater than 35 acres of suitable habitat and is non-contiguous with MSHCP Conservation Area lands, at least 90 percent of the area with long-term conservation value and BUOW pairs will be conserved on-site.
MSHCP-Riparian (for tree trimming impacts)	SCE shall plant 50 willow native willow cuttings (collected from the vicinity of the planting areas) within their easement located within the Temescal Wash and/or tributary that occurs near Temescal Canyon Road (wherein LBV have been documented). Refer to Maps 6 and 7 of Appendix A for potential locations of proposed willow planting activities. The exact location of willow cutting planting (within the SCE easement) shall be determined in the field and placed in areas determined to be most effective and that will not be impacted by O&M activities, thus protected in perpetuity. SCE shall prepare a Habitat Mitigation and Monitoring Plan (refer to MM-BIO2a), which shall detail the planting locations. SCE shall monitor the willow planting areas for duration of three (3) years.