

Attachment D

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STEELHEAD (*Oncorhynchus mykiss*)

Project work within the wetted stream shall be limited to the period between June 15 and November 1, or the first significant fall rainfall. This is to take advantage of low stream flows and to avoid the spawning and egg/alevin incubation period of steelhead.

Whenever possible, the work period at individual sites shall be further limited to entirely avoid periods when salmonids are present (for example, in a seasonal creek, work will be confined to the period when the stream is dry).

No heavy equipment shall operate in the live stream, except as may be necessary to construct coffer dams to divert stream flow and isolate the work site and to excavate the stored sediments from the stream channel immediately upstream of the road crossing.

Work must be performed in isolation from the flowing stream. If there is any flow when the work is done, the operator shall construct coffer dams upstream and downstream of the excavation site and divert all flow from upstream of the upstream dam to downstream of the downstream dam. The coffer dams may be constructed with clean river gravel or sand bags, and may be sealed with sheet plastic. Upon project completion, sand bags and any sheet plastic shall be removed from the stream in such a manner that would allow for the least disturbance to the substrate. Clean river gravel may be left in the stream, but the coffer dams must be breached to return the stream flow to its natural channel.

For minor actions, where the disturbance to construct coffer dams to isolate the work site would be greater than to complete the action (for example, placement of a single boulder cluster), measures will be put in place immediately downstream of the work site to capture suspended sediment. This may include installation of silt catchment fences across the stream, or placement of a filter berm of clean river gravel. Silt fences and other non-native materials will be removed from the stream following completion of the activity. Gravel berms may be left in place after breaching, provided they do not impede the stream flow or fish passage.

The channel shall not be excavated for the purpose of isolating the workspace from flowing water.

The Operator shall obtain a biologist with all necessary State and Federal permits, to rescue any fish within work sites prior to dewatering. Rescued fish shall be moved to the nearest appropriate site on the stream outside of the work area. A record shall be maintained of all fish rescued and moved, and the record shall be provided to DFG at the completion of the work season.

A Service-approved biologist shall permanently remove from within the project work site, any individuals of exotic species, such as bullfrogs, centrarchid fishes, and non-native crayfish, to the maximum extent possible. The Operator shall have the responsibility that such removals are done in compliance with the California Department of Fish and Game Code.

If it is necessary to divert flow around the work site, either by pump or by gravity flow, the suction end of the intake pipe shall be fitted with fish screens meeting DFG and NMFS criteria to prevent entrainment or impingement of small fish. Any turbid water pumped from the work site itself to maintain it in a dewatered state shall be disposed of in an upland location where it will not drain directly into any stream channel.

Any disturbed banks shall be fully restored upon completion of construction. Revegetation shall be done using locally obtained native species. Planting techniques can include seed casting, hydroseeding, or live planting methods using the techniques in Part XI of the *California Salmonid Stream Habitat Restoration Manual*.

Suitable large woody debris removed from fish passage barriers that is not used for habitat enhancement, shall be left within the riparian zone so as to provide a source for future recruitment of wood into the stream, reduce surface erosion, contribute to amounts of organic debris in the soil, encourage fungi, provide immediate cover for small terrestrial species, and to speed recovery of native vegetation.

The following measures shall be taken to minimize injury and mortality to listed salmonids resulting from fish relocation and dewatering activities:

- a) Fish relocation and dewatering activities shall only occur between June 15 and November 1 of each year,
- b) The Operator shall minimize the amount of wetted stream channel that is dewatered at each individual project site to the fullest extent possible, and
- c) All electrofishing shall be performed by a qualified fisheries biologist and conducted according to the National Marine Fisheries Service Guidelines for Electrofishing Waters Containing Salmonids Listed under the Endangered Species Act, June 2000.

Installation of the contracted bridge(s) will be of adequate size that it will allow anadromous fish passage at all life stages and is designed to comply with current National Marine Fisheries Service (NMFS) Southwest Region fish passage guidelines.

If for some reason these mitigation measures cannot be implemented, or the project actions proposed at a specific work site cannot be modified to prevent or avoid potential impacts to anadromous salmonids or their habitat, then activity at that work site will be discontinued.

HAZARDS AND HAZARDOUS MATERIALS

The Operator shall have dependable radio or phone communication on-site to be able to report any accidents or fire that might occur.

Heavy equipment that will be used in these activities will be in good condition and will be inspected for leakage of coolant and petroleum products and repaired, if necessary, before work is started.

All equipment operators will be trained in the procedures to be taken should an accident occur. Prior to the commencement of work, the Operator shall provide DFG with a plan allowing for prompt and effective response to any accidental spills. All workers shall be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.

All activities performed in or near a stream will have absorbent materials designed for spill containment and cleanup at the activity site for use in case of an accidental spill.

All fueling and maintenance of vehicles, other equipment, and staging/storage areas shall be located at least 20 meters from any riparian habitat or water body. The Operator shall ensure contamination of habitat does not occur during such operations.

Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily, to prevent leaks or materials that if introduced to water could be deleterious to aquatic life.

Staging and storage areas for equipment, materials, fuels, lubricants, and solvents shall be located outside of the stream's high water channel and associated riparian area. Stationary equipment such as motors, pumps, generators, compressors, and welders, located within the dry portion of the stream channel or adjacent to the stream, will be positioned over drip-pans.

All internal combustion engines shall be fitted with spark arrestors.

The Operator shall have an appropriate fire extinguisher(s) and fire fighting tools (shovel and axe at a minimum) present at all times when there is a risk of fire.

Vehicles shall not be parked in tall grass or any other location where heat from the exhaust system could ignite a fire.

The Operator shall follow any additional rules the landowner has for fire prevention.

HYDROLOGY AND WATER QUALITY

Work shall be conducted during the period of lowest flow.

If it is necessary to divert water around the work site, unimpeded bypass flows shall be maintained at all times to maintain downstream water quality.

When a dam (any artificial obstruction) is being constructed, maintained, or placed in operation, sufficient water shall at all times be allowed to pass downstream to maintain fishlife bellow the dam pursuant to Fish and Game Code Section 5837.

Debris, soil, silt, bark, rubbish, creosote-treated wood, raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any

other substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the waters of the state. Any of these materials, placed within or where they may enter a stream or lake, by Operator or any party working under contract, or with the permission of the Operator, shall be removed immediately.

Effective erosion control measures shall be in-place at all times during construction. Construction within the 5-year flood plain will not begin until all temporary erosion controls (e.g., straw bales or silt fences that are effectively keyed-in) are in-place down slope of project activities within the riparian area. Erosion control measures shall be maintained throughout the construction period.

Adequate erosion control supplies (gravel, straw bales, shovels, etc.) shall be kept at all restoration sites to ensure sediment is kept out of water bodies. Erosion control measures shall be utilized throughout all phases of operation where sediment runoff from exposed slopes threatens to enter waters of the State. At no time shall silt laden runoff be allowed to enter the stream or be placed where it may enter the stream.

Silty/turbid water from the excavation and/or project activities shall not be discharged into the stream, lake, or into storm drains. Such water shall be pumped into a holding facility or into a settling pond located in flat stable areas outside of the stream channel, or sprayed over a large area outside the stream channel to allow for natural filtration of sediments. At no time shall turbid water from the settling ponds be allowed to enter back into the stream channel until water is clear of silt.

Sediment shall be removed from sediment controls once it has reached one-third of the exposed height of the control. Whenever straw bales are used, they shall be staked and dug into the ground six (6) inches. Catch basins shall be maintained so that no more than six (6) inches of sediment depth accumulates within traps or sumps.

Sediment-laden water created by construction, washing or other activities or shall be filtered before it leaves the right-of-way or enters the stream network or an aquatic resource area. Silt fences or other detention methods shall be installed as close as possible to culvert outlets to reduce the amount of sediment entering aquatic systems.

Preparation shall be made so that runoff from steep, erodible surfaces will be diverted into stable areas with little erosion potential.

If continued erosion is likely to occur after construction is completed, then appropriate erosion prevention measures shall be implemented and maintained until erosion has subsided.

Upon project completion, all exposed soil present in and around the project site shall be stabilized within seven (7) days.

Work sites will be winterized at the end of each day when significant rains are forecast that may cause unfinished excavations to erode. Winterization procedures shall

supervised by a professional trained in erosion control techniques and involve taking necessary measures to minimize erosion on unfinished work surfaces. Winterization includes the following: smoothing unfinished surfaces to allow water to freely drain across them without concentration or ponding; compacting unfinished surfaces where concentrated runoff may flow with an excavator bucket or similar tool, to minimize surface erosion and the formation of rills; and installation of culverts, silt fences, and other erosion control devices where necessary to convey concentrated water across unfinished surfaces, and trap exposed sediment before it leave the work site.

Mulching and seeding using local native species mix is required on all exposed soil which may deliver sediment to a stream.

Poured concrete shall be excluded from the wetted channel for a period of two (2) weeks after it is poured. During that time the poured concrete shall be kept moist, and runoff shall not be allowed to enter a live stream. Commercial sealants (e.g. Deep Seal, Elasto-Deck BT Reservoir Grade) may be applied to the poured concrete surface where difficulty in excluding water flow for a long period may occur. If sealant is used, water shall be excluded from the site until the sealant is dry.

RIPARIAN VEGETATION

No more than 1/3 of any willow plant shall be harvested annually. Care shall be taken during harvest not to trample or over harvest the willow sources.

Planting of seedlings shall begin after December 1, or when sufficient rainfall has occurred to ensure the best chance of survival of the seedlings, but in no case after April 1.

Building materials and/or construction equipment shall not be stockpiled or stored where they could be washed into the water or where they will cover aquatic or riparian vegetation.

The contractor shall not dump any litter or construction debris within the riparian/stream zone. All such debris and waste shall be picked up daily and properly disposed of at an appropriate site. During all activities at project work sites, all trash that may attract predators shall be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris shall be removed from work areas.

The Operator shall retain as many trees and brush as feasible, emphasizing shade producing and bank stabilizing trees and brush.

The Operator shall ensure that the spread or introduction of invasive exotic plants shall be avoided to the maximum extent possible. When practicable, invasive exotic plants at the work site shall be removed.

Use project designs and access points that minimize riparian disturbance without affecting less stable areas, which may increase the risk of channel instability.

Minimize compaction by using equipment that either has (relative to other equipment available) less pressure per square inch on the ground or a greater reach, thus resulting in less compaction or less area overall compacted or disturbed.

At the completion of the project, soil compaction that is not an integral element of the design of a crossing should be de-compacted.

Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations.

Disturbed and compacted areas shall be revegetated with locally obtained native plant species. The species used should be specific to the project vicinity or the region of the state where the project is located, and comprise a diverse community structure (plantings should include both woody and herbaceous species). Plant at a ratio of two plantings to one removed plant.

Unless otherwise specified, the standard for success is 80 percent survival of plantings or 80 percent ground cover for broadcast planting of seed after a period of three (3) years. If at the end of three (3) years there is less than 80% survival, all dead plants shall be replaced.

RARE PLANTS

Prior to the commencement of work, the Operator will employ one or more of the following protective measures:

- a) Fencing to prevent accidental disturbance of rare plants during construction,
- b) On-site monitoring by a qualified biologist during construction to assure that rare plants are not disturbed, and
- c) Redesign of proposed work to avoid disturbance of rare plants.

If it becomes impossible to implement the project at the work site without potentially significant impacts to rare plants, then activity at that work site will be discontinued.

MITIGATION MONITORING & REPORTING PROGRAM

Carmel Lagoon EPB, SRPS, and ISMP Project

INTRODUCTION

In accordance with the California Environmental Quality Act (CEQA), an Environmental Impact Report (EIR) was prepared that identifies potential adverse impacts related to construction and operation of the Carmel Lagoon EPB, SRPS, and ISMP (Carmel Lagoon) Project (proposed project). The EIR identifies mitigation measures that would reduce or eliminate these impacts.

Section 21081.6 of the Public Resources Code and Sections 15091(d) and 15097 of the State CEQA Guidelines require public agencies to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment. A Mitigation Monitoring Reporting Plan (MMRP) is required for the proposed project, because the EIR identified potentially significant adverse impacts related to construction and operation activities, and mitigation measures have been identified to mitigate these impacts. Adoption of the MMRP will occur along with approval of the proposed project.

PURPOSE OF THE MITIGATION MONITORING AND REPORTING PLAN

This MMRP has been prepared to ensure that all required mitigation measures are implemented and completed according to schedule and maintained in a satisfactory manner during the construction and operation of the proposed project, as required. The MMRP may be modified by the County of Monterey (County), the project partners, during project implementation, as necessary, in response to changing conditions or other project refinements. The MMRP table below has been prepared to assist the responsible parties in implementing the MMRP. This table identifies the category of significant environmental impact(s), individual mitigation measures, monitoring and mitigation timing, responsible person/agency for implementing the measure, monitoring and reporting procedure, and notation space to confirm implementation of the mitigation measures. The numbering of the mitigation measures follows the numbering sequence in the Final EIR.

ROLES AND RESPONSIBILITIES

The County, as the CEQA lead agency, is responsible for the oversight of compliance of the mitigation measures in the MMRP.

MITIGATION MONITORING AND REPORTING PLAN

The following describes the column categories identified in the MMRP table:

- **Mitigation Measure** – This column lists the mitigation measures by number.
- **Project Component/Activity/Timing/Frequency/Agency Coordination** – This column lists the project component the mitigation measure applies to, activity(ies) to be monitored for each mitigation measure, the timing of each activity, the frequency of monitoring for each activity, and identification of any outside agency coordination.
- **Implementation Responsibility/Verification** – This column identifies the entity responsible for complying with the requirements of the mitigation measure and provides space for verification initials and date.

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- **Responsibility for Oversight of Compliance/Verification** – This column provides the agency responsible for oversight of the mitigation implementation, and is to be dated and initialed by the agency representative based on the documentation provided by the construction contractor or through personal verification by agency staff.
- **Comments** – this column provides space for written comments, if necessary.

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
Aesthetics				
<p>AES-2: Screening of the EPB Project Component</p> <p>The final design of the EPB project component shall include surface treatments with earth-tone colors and natural appearing materials in harmony with the surrounding landscape, including, but not limited to, earth-tone paints and finishes with low reflectivity. Post-construction, native vegetation of the appropriate habitat types shall be planted along both sides of the EPB project component for the purposes of screening. This effort may be implemented in coordination with the restoration required by Mitigation Measure BIO-1a and Mitigation Measure BIO-2, as determined appropriate.</p>	<p>Component: EPB</p> <p>Activity: Final design review of the EPB Project Component and Screening Installation.</p> <p>Timing: Prior to and post construction</p> <p>Frequency: Once prior to construction and once post construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	
Biological Resources				
<p>BIO-1a: Implement Construction Best Management Practices</p> <p>The following BMPs reduce impacts to special-status wildlife species:</p> <p>1) A qualified biologist will conduct an Employee Education Program for the construction crew prior to any construction activities. A qualified biologist will meet with the construction crew at the onset of construction at the project site to educate the construction crew on the following: 1) the appropriate access route(s) in and out of the construction area and review project boundaries; 2) how a biological monitor will examine the area and agree upon a method which will ensure the safety of the monitor during such activities, 3) the special-status species and sensitive habitats that are known to occur or that may be present, their habitat, and proper identification; 4) the specific mitigation measures that will be incorporated into the construction effort; 5) the general provisions and protections afforded by the USFWS and CDFW; and 6) the proper procedures if a special-status species is encountered within the project site.</p>	<p>Component: EPB SRPS</p> <p>Activity: Implement Construction Best Management Practices</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Biologist</p> <hr/>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<p>2) Protective fencing will be placed prior to and during construction to keep construction equipment and personnel from impacting vegetation outside of work limits. A biological monitor will supervise the installation of protective fencing and monitor at least once per week until construction is complete to ensure that the protective fencing remains intact. Orange cyclone fencing, or other materials that can entrap CRLF and other special-status species, shall not be used.</p> <p>3) Following construction, disturbed areas will be restored to pre-project contours to the maximum extent possible and revegetated. A Revegetation Plan shall be prepared for the project that shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> • the use of locally-occurring native species and native erosion control seed mix appropriate for the habitat(s) disturbed, including riparian, wetland, and/or other sensitive natural communities; • procedures to control non-native species invasion and elimination of existing non-native species within the area of impact; • provisions to ensure compliance with the requirements of the plan; and • a monitoring program that describes annual monitoring efforts which incorporate success criteria and contingency plans if success criteria are not met. <p>4) Grading, excavating, and other activities that involve substantial soil disturbance will be planned and carried out in consultation with a qualified hydrologist, engineer, or erosion control specialist, and will utilize standard erosion control and slope stabilization techniques in satisfaction of Monterey County erosion control guidelines to minimize erosion of slopes and sedimentation to native vegetation and special-status species habitat (pre-, during, and post-construction). If silt fencing is required, only high-quality reinforced silt fencing shall be used and efforts shall be made to install it in a way that does not inhibit movements of special-status species. Openings shall be created approximately every 100 feet.</p>		<p>Initials</p> <hr/> <p>Date</p>		

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<p>5) No firearms or pets will be allowed on the project site at any time.</p> <p>6) All food-related and other trash will be disposed of in closed containers and removed from the project area at least once a week during the construction period, or more often if trash is attracting avian or mammalian predators. Following construction, all trash and construction debris shall be removed from work areas and disposed of properly. Construction personnel will not feed or otherwise attract wildlife to the area.</p> <p>7) To prevent inadvertent entrapment of special-status wildlife during the proposed project, all excavated, steep-walled holes or trenches more than two feet deep will be covered at the close of each working day with plywood or similar materials. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals.</p> <p>8) Cleaning and refueling of equipment and vehicles shall occur only within designated staging areas. No maintenance, cleaning or fueling of equipment shall occur within wetland, riparian, or other sensitive habitat areas and, at a minimum, all equipment and vehicles will be checked and maintained on a daily basis to ensure proper operation and avoid potential leaks or spills. During construction, all construction-related spills of hazardous materials within or adjacent to the construction site will be cleaned up immediately. Spill prevention and clean-up materials shall be onsite at all times during construction. Construction materials/debris will also be stored within the designated staging areas. No debris, soil, silt, sand, oil, petroleum products, cement, concrete, or washings thereof shall be allowed to enter into, or be placed where they may be washed by rainfall or runoff, into wetland, riparian, or other sensitive habitats. A spill response and prevention plan shall be implemented as outlined in the required Storm Water Pollution Prevention Plan (SWPPP). Please refer to the Impact HYD-3 discussion in Section 4.8, Hydrology/Water Quality.</p> <p>9) If necessary to work during the nighttime, construction lighting shall be focused and downward directed to preclude night illumination of adjacent habitats.</p> <p>10) The following measures will be implemented to reduce the introduction and spread of non-native, invasive species:</p>				

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<ul style="list-style-type: none"> • Any landscaping or replanting required for the project will not use species listed as noxious by the California Department of Food and Agriculture (CDFA). • Bare and disturbed soil will be landscaped with CDFA recommended seed mix or plantings from locally adopted species to preclude the invasion of noxious weeds in the project site. • Construction equipment will be cleaned of mud or other debris that may contain invasive plants and/or seeds and inspected to reduce the potential of spreading noxious weeds, before mobilizing to arrive at the construction site and before leaving the construction site. • All non-native, invasive plant species will be removed from disturbed areas prior to replanting. 				

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<p>BIO-1b: Conduct Pre-Construction Surveys for White-Tailed Kite, Nesting Raptors, and Other Migratory Bird Species</p> <p>Construction activities that may directly (e.g., vegetation removal) or indirectly (e.g., noise/ground disturbance) affect protected nesting avian species will be timed to avoid the breeding and nesting season. Specifically, vegetation and/or tree removal can be scheduled after September 16 and before January 31. Alternatively, a qualified biologist will be retained by the project applicant to conduct pre-construction surveys for nesting raptors and other protected avian species within 500 feet of proposed construction activities if construction occurs between February 1 and September 15. Pre-construction surveys will be conducted no more than 14 days prior to the start of construction activities during the early part of the breeding season (February through April) and no more than 30 days prior to the initiation of these activities during the late part of the breeding season (May through August). Because some bird species nest early in spring and others nest later in summer, surveys for nesting birds may be required to continue during construction to address new arrivals, and because some species breed multiple times in a season. The necessity and timing of these continued surveys will be determined by the qualified biologist based on review of the final construction plans and in coordination with the USFWS and CDFW, as needed.</p> <p>If raptors or other protected avian species nests are identified during the pre-construction surveys, the qualified biologist will notify the project applicant and an appropriate no-disturbance buffer will be imposed within which no construction activities or disturbance should take place (generally 300 feet in all directions for raptors; other avian species may have species-specific requirements) until the young of the year have fledged and are no longer reliant upon the nest or parental care for survival, as determined by a qualified biologist.</p>	<p>Component: EPB SRPS</p> <p>Activity: Conduct Pre-Construction Surveys for White-Tailed Kite, Nesting Raptors, and Other Migratory Bird Species</p> <p>Timing: Prior to construction</p> <p>Frequency: Once</p> <p>Agency Coordination: USFWS, CDFW</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p> <p style="text-align: center;">Project Biologist</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	
<p>BIO-1c: Implement Construction-Phase Monitoring</p> <p>The Project Proponent shall retain a qualified biologist to monitor all ground disturbing construction activities (i.e., vegetation removal, grading, excavation, or similar activities) to protect any special-status species encountered. Any handling and relocation protocols of special-status wildlife species shall be determined in coordination with the CDFW prior to any ground disturbing activities and conducted by a qualified</p>	<p>Component: EPB SRPS</p> <p>Activity: Implement Construction-Phase Monitoring</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	

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<p>biologist with appropriate scientific collection permit. After ground disturbing project activities are complete, the qualified biologist shall train an individual from the construction crew to act as the on-site construction biological monitor. The construction biological monitor shall be the contact for any special-status wildlife species encounters, shall conduct daily inspections of equipment and materials stored on site and any holes or trenches prior to the commencement of work, and shall ensure that all installed fencing stays in place throughout the construction period. The qualified biologist shall then conduct regular scheduled and unscheduled visits to ensure the construction biological monitor is satisfactorily implementing all appropriate mitigation protocols. Both the qualified biologist and the construction biological monitor shall have the authority to stop and/or redirect project activities to ensure protection of resources and compliance with all environmental permits and conditions of the project. The qualified biologist and the construction monitor shall complete a daily log summarizing activities and environmental compliance throughout the duration of the project. The log shall also include any special-status wildlife species observed and relocated.</p>	<p>Timing: During construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Biologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>		
<p>BIO-1d: Avoid and minimize impacts to Western Pond Turtle</p> <p>A qualified biologist shall survey suitable habitat no more than 48 hours before the onset of work activities at the EPB project component site for the presence of western pond turtle. If pond turtles are found and these individuals are likely to be killed or injured by work activities, the biologist shall be allowed sufficient time to move them from the site before work activities begin. The biologist shall relocate the pond turtles the shortest distance possible to a location that contains suitable habitat and would not be affected by activities associated with the project.</p>	<p>Component: EPB</p> <p>Activity: Pre-construction Survey for Western Pond Turtle</p> <p>Timing: Prior to construction</p> <p>Frequency: Once</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Biologist</p> <hr/> <p>Initials</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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		_____ Date		
<p>BIO-1e: Avoid and minimize impacts to FYLF and CRLF</p> <p>The following measures for avoidance and minimization of adverse impacts to FYLF and CRLF during construction of the EPB and ISMP project components are those typically employed for construction activities that may result in short-term impacts to individuals and their habitat. The focus of these measures is on scheduling activities at certain times of year, keeping the disturbance footprint to a minimum, and monitoring.</p> <ol style="list-style-type: none"> 1) Construction activities shall occur during the dry season within a work window determined in consultation with the CDFW and USFWS. No work shall occur within areas where standing water is present at the time of construction. 2) During ground disturbing and vegetation removal activities, a CDFW- and USFWS-approved biologist shall survey appropriate areas of the construction site daily before the onset of work activities for the presence of FYLF and CRLF. Vegetation shall initially be removed by hand (brush-cutters, weed whackers, and chainsaws). Piles of woody debris shall be cleared by hand. Larger debris will only be moved after being inspected by the CDFW- and USFWS-approved biologist. The CDFW- and USFWS-approved biologist shall remain at the work site until all ground disturbing activities are completed. If any life stage of the FYLF and/or the CRLF is found and these individuals are likely to be killed or injured by work activities, the CDFW- and USFWS-approved biologist shall stop work in that area and relocate the FYLF or CRLF the shortest distance possible to an area that contains suitable habitat and will not be affected by construction activities. The CDFW- and USFWS-approved biologist shall maintain detailed records of any individuals that are moved (e.g., size, coloration, any distinguishing features, photographs [digital preferred]) to assist him or her in determining whether translocated animals are returning to the original point of capture. Only CDFW- and USFWS-approved biologists shall participate in activities associated with the capture, handling, and monitoring of FYLF and CRLF. 	<p>Component: EPB ISMP</p> <p>Activity: Construction surveys and monitoring for FYLF and CRLF</p> <p>Timing: Prior to and during ground disturbing and vegetation removal activities</p> <p>Frequency: Daily</p> <p>Agency Coordination: USFWS, CDFW</p>	<p style="text-align: center;">County of Monterey</p> <p>_____ Initials</p> <p>_____ Date</p> <p style="text-align: center;">Project Contractor</p> <p>_____ Initials</p> <p>_____ Date</p> <p style="text-align: center;">Service- and CDFW- Approved Biologist</p> <p>_____ Initials</p> <p>_____ Date</p>	<p style="text-align: center;">County of Monterey</p> <p>_____ Initials</p> <p>_____ Date</p>	

MITIGATION MONITORING & REPORTING PROGRAM

Carmel Lagoon EPB, SRPS, and ISMP Project

Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>3) After ground disturbing and vegetation removal activities are complete, the CDFW- and USFWS-approved biologist will designate a person to monitor on-site compliance with all avoidance and minimization measures. The CDFW- and USFWS-approved biologist shall ensure that this monitor receives sufficient training in the identification of FYLF and CRLF. The monitor or the CDFW- and USFWS-approved biologist is authorized to stop work if the avoidance and/or minimization measures are not being followed. If work is stopped, the CDFW and USFWS shall be notified.</p>				
<p>BIO-1f: Avoid or Reduce Hydroacoustic Impacts to S-CCC Steelhead</p> <p>The following measures for avoidance and minimization of adverse impacts to S-CCC steelhead resulting from noise attenuation during construction of the EPB project component are those typically employed for construction activities that may result in short-term hydroacoustic impacts to fish.</p> <p>1) A vibratory hammer shall be used for pile driving to the greatest extent feasible.</p> <p>2) If necessary, an impact hammer may be used. If an impact driver is used, a hydroacoustic impact assessment would need to be conducted, based on assumptions regarding the number, size, and location of piles along with the number of impact strikes that could occur in a single day, to determine if SELs are met or exceeded that would result in an impact to S-CCC steelhead. The impact assessment shall follow guidance provided in the most current Caltrans <i>Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish</i> and the NMFS Pile Driving Calculations Spreadsheet. If it is determined that pile driving will result in impacts to S-CCC steelhead, an Underwater Noise Monitoring Plan consistent with the most current FHWG template shall be developed and approved by the NMFS prior to the start of construction. The plan will include monitoring and reporting of underwater sound levels in the Lagoon and/or River during the initiation of construction to detect if underwater noise levels meet or exceed established impact thresholds. The plan will also include feasible measures to reduce noise levels below established thresholds if necessary based on the monitoring results.</p>	<p>Component: EPB</p> <p>Activity: Prepare and Implement Hydroacoustic Impact Assessment</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Once</p> <p>Agency Coordination: NMFS</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Biologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>BIO-1g: Avoid and Minimize Impacts to S-CCC Steelhead</p> <p>The following measures for avoidance and minimization of adverse impacts to S-CCC steelhead during construction of the EPB and SRPS project components are those typically employed for construction activities that may result in short-term impacts to individuals and their habitat. The focus of these measures is on scheduling activities at certain times of year, keeping the disturbance footprint to a minimum, and monitoring.</p> <ol style="list-style-type: none"> 1) Construction activities shall occur during the dry season within a work window determined in consultation with the NMFS. No work shall occur within areas where standing water is present at the time of construction. 2) All applicable measures outlined in the attached CDFW Avoidance and Minimization Measures (Appendix H of the Biological Resources Report¹) shall be implemented (included as Attachment 1 of the MMRP). 	<p>Component: EPB SRPS</p> <p>Activity: Avoid and Minimize Impacts to S-CCC Steelhead</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: NMFS</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Biologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	
<p>BIO-1h: Reduce Impacts to FYLF, CRLF, and S-CCC Steelhead</p> <p>A monitoring and reporting program will be developed in consultation with the USFWS and NMFS prior to the initiation of construction and will be implemented to document the effects of the ISMP project component and inform an adaptive management approach for the duration of the permit. The monitoring program will assess breeding/rearing conditions and relative numbers and distribution of FYLF (if observed within the site), CRLF and S-CCC steelhead, and degree of smoltification of S-CCC steelhead throughout the year and in response to lagoon sandbar management activities.</p>	<p>Component: ISMP</p> <p>Activity: Prepare and Implement Monitoring and Reporting Program</p> <p>Timing: Prior to construction and duration of activities</p> <p>Frequency:</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p>Initials</p> <hr/>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

¹ The Biological Resources Report is contained in **Appendix E** of this RDEIR.

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Carmel Lagoon EPB, SRPS, and ISMP Project

Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
	Ongoing during activities Agency Coordination: USFWS, NMFS	Date Project Biologist <hr/> Initials <hr/> Date		
<p>BIO-1i: Avoid and Minimize Impacts to SBB</p> <p>The following measures for avoidance and minimization of adverse impacts to SBB during construction of the SRPS project component are those typically employed for construction activities that may result in impacts to individuals and their habitat. The focus of these measures is on keeping the disturbance footprint to a minimum, restoration, and monitoring.</p> <ol style="list-style-type: none"> 1) Dune buckwheat plants that are not scheduled for removal as a result of project activities will be protected by exclusionary fencing. The fencing shall be installed prior to any grubbing or construction activities associated with the project. No construction activities or equipment will be allowed within the fencing. A qualified biologist shall be onsite during the fence installation. Once these activities are completed for this area, the monitor will visit the site as needed until project completion to ensure that the exclusionary fencing is properly maintained throughout construction activities. 2) Dune buckwheat plants that will be impacted, as well as the duff and/or soils underneath the plants, will be hand removed prior to disturbance by a USFWS-approved biologist and placed as close as possible to, but not on, living dune buckwheat plants within the exclusionary fencing installed around existing plants not scheduled for removal. The number of plants removed shall be counted and the area of disturbance measured. 3) Impacts to SBB that occur as a result of the removal of obligate host plants will be mitigated by replanting disturbed areas upon the completion of construction activities. Following construction, locally 	<p>Component: SRPS</p> <p>Activity: Protection of SBB habitat and restoration</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: USFWS</p>	<p>County of Monterey <hr/>Initials <hr/>Date Project Contractor <hr/>Initials <hr/>Date Service-Approved Biologist <hr/>Initials <hr/>Date</p>	<p>County of Monterey <hr/>Initials <hr/>Date</p>	

MITIGATION MONITORING & REPORTING PROGRAM

Carmel Lagoon EPB, SRPS, and ISMP Project

Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>sourced seedlings shall be planted at a 2:1 ratio. Planting shall occur in the fall after the first rain.</p> <p>4) A qualified biologist or restoration specialist shall monitor the planting areas annually for three years. Success criteria for buckwheat plantings are as follows:</p> <ul style="list-style-type: none"> The percentage of dune buckwheat plants that survive is greater than 75% in the first year and 50% at year three. <p>If the criteria are not met, the need for additional planting to achieve success at the end of the three-year monitoring period shall be evaluated.</p> <p>After each inspection, a report shall be submitted to the USFWS. The report shall quantify the state of the restoration and shall include photographic documentation, as well as recommendations for further maintenance and management that may be necessary for maintaining the success criteria.</p>				
<p>BIO-2: Avoid and minimize impacts to Federal and Coastal Wetlands, other waters of the U.S., Waters of the State, Riparian Habitat, and Seasonal Emergent Marsh</p> <p>The following measures reduce impacts to Federal and coastal wetlands, other waters of the U.S., waters of the State, riparian habitat, and seasonal emergent marsh:</p> <p>A 404 permit shall be obtained from the USACE, a 401 permit shall be obtained from the RWQCB, and a coastal development permit shall be obtained from the CCC prior to any ground disturbance or other construction activities. All requirements of the permits shall be followed. If permit requirements differ or conflict with the mitigation measures in the Final EIR, the permit requirements will take precedence. The project applicant shall comply with all applicable local, State, and Federal regulations related to impacts to the sensitive habitat types of riparian habitat and seasonal emergent marsh, including local tree removal ordinances and/or Section 1602 of California Fish and Game Code. All permits and/or authorizations will be required prior to issuance of a grading permit.</p>	<p>Component: EPB SRPS</p> <p>Activity: Permit Acquisition, Implement Permit Requirements, Restoration</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Prior to, during, and post construction</p> <p>Agency Coordination: USACE, RWQCB, CCC, CDFW</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Biologist</p> <hr/> <p>Initials</p> <hr/>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>Impacts to Federal and coastal wetlands, other waters of the U.S., waters of the State, riparian habitat, and emergent marsh shall be avoided to the greatest extent possible (e.g., through timing of construction, site design, monitoring). Issuance of the permits identified above typically requires the preparation and implementation of a Habitat Mitigation and Monitoring Plan (HMMP) to mitigate for the impacts to Federal and coastal wetlands and/or other sensitive habitat including riparian and seasonal emergent marsh. The HMMP shall detail mitigation for temporary and permanent impacts to Federal and coastal wetlands, which are typically replaced at a 3:1 ratio for in-kind, on-site mitigation (e.g., higher mitigation ratios may be required for out-of-kind, off-site mitigation). Impacted riparian habitat would be mitigated at a 1:1 replacement-to-loss ratio. The final mitigation amounts will be determined during the design phase. The HMMP generally includes the following:</p> <ul style="list-style-type: none"> • Details of the engineering and hydrological components necessary to maintain and/or recreate wetland function in the designated mitigation area; • Applicable planting details which include the use of local native plant species and the location and planting size of all planting stock; • Procedures to control non-native species invasion; • Provisions to ensure compliance with the requirements of the mitigation plan; • An irrigation plan, if necessary; • Description of a 5-year monitoring program, including specific methods of vegetation monitoring, data collection and analysis, restoration goals and objectives, success criteria, adaptive management if the criteria are not met, and a funding mechanism; and • An outline of the specific content for monitoring reports that will be submitted to the resource agencies annually. <p>The HMMP will provide sufficient content and information to ensure implementation of restoration measures will reduce identified</p>		Date		

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>significant impacts to Federal and coastal wetlands, riparian habitat, and seasonal emergent marsh to a less-than-significant level. The HMMP shall be finalized as part of the regulatory permitting process and must be approved by the USACE, CDFW, CCC, and RWQCB prior to issuance of the grading permit. The HMMP shall be prepared by a qualified biologist and implemented by the project applicant or its contractor(s) under the supervision of a qualified restoration practitioner/biologist. This HMMP could be combined with the revegetation plan included in Mitigation Measure BIO-1a, as determined appropriate.</p>				
Cultural Resources				
<p>CR-1: Monitoring EPB Installation</p> <p>The construction of the EPB shall be monitored in accordance with the measures below:</p> <ul style="list-style-type: none"> Worker Educational Awareness Program (WEAP): Prior to initiation of any construction-related activities, the County shall implement a WEAP that shall inform all project construction workers about the types of resources that could be encountered in connection with construction-related activities, describe applicable avoidance measures, and identify appropriate notification procedures in the event a previously unknown resource is identified during construction. This program would be developed in consultation with a qualified archaeologist and may be combined with other pre-construction educational programs and training, as described elsewhere in this EIR. Accidental Discovery: In the event a previously unknown historic resource is uncovered during the course of construction, all work would temporarily cease until such time as a qualified professional can evaluate the resource to determine whether the finding is significant. If the finding is a historical resource (including glass or ceramics sherds, old foundation stones, hand forged metal object, etc.), avoidance measures or appropriate mitigation will be implemented based on the recommendations of the qualified professional. Work would cease within a radius of 30 feet of the discovery and the resource protected in place until mitigation can be 	<p>Component: EPB</p> <p>Activity: Monitoring EPB Installation</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Archeologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>implemented. Work may continue in other parts of the proposed project site during the implementation of potential resource mitigation (if necessary). In the event of a discovery of a previously unknown resource, the County would consult with a qualified professional to determine the appropriate method of mitigation prior to the resumption of ground-disturbing activities. The requirements of this measure would be reflected on all construction drawings and would be described as part of the WEAP.</p> <ul style="list-style-type: none"> Monitoring: The County shall retain a qualified archaeological professional to monitor ground disturbing activities (i.e., grading, excavation, and trenching). The monitor shall be present to identify and recover any potentially significant historic materials that may be uncovered in connection with construction-related activities. If a resource is uncovered during construction, the monitoring shall follow the procedures described above regarding the accidental discovery of a previously unknown resource. 				
<p>CR-2a: Final Grading Plans</p> <p>The final grading plans for the EPB and SRPS project components shall be prepared in consultation with an archaeologist who meets the Secretary of the Interior’s Qualification Standards and a representative of the OCEN.</p>	<p>Component: EPB SRPS</p> <p>Activity: Final Grading Plans</p> <p>Timing: Prior to construction</p> <p>Frequency: Once</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p> <p style="text-align: center;">Project Archeologist</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p> <p style="text-align: center;">OCEN Representative</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>CR-2b: Archaeological Data Recovery</p> <p>Archaeological data recovery consists of the systematic excavation, analysis, reporting, and curation of artifacts from an archaeological site. Prior to the commencement of any construction related activities, the County will retain an archaeological consultant who meets the Secretary of the Interior’s Qualifications Standards. In consultation with the County and a representative of OCEN, the archaeologist shall design and carry out an Archaeological Testing Program to determine the relationship of archaeological deposits to the proposed construction. The archaeologist shall report on the results of the Program to the County in a draft and a final Archaeological Testing Report (ATR).</p> <p>Based on the conclusions of the ATR, the archaeologist shall prepare a draft and final Archaeological Research Design and Treatment Plan (ARDTP) for the County to avoid and mitigate potential impacts to archaeological resources. The ARDTP will organize the various phases of archaeological work – identification, evaluation, and data recovery – into a single pre-approved plan covering the treatment of all on-site archaeological resources and help to avoid lengthy interruptions of construction activities. The plan will cover any additional archaeological research investigation standards, field excavation strategies, monitoring (including a provision requiring that an OCEN representative shall be present during archaeological fieldwork or that OCEN may choose the assigned Cultural Monitor), artifact handling and analysis procedures, treatment of human remains, and ownership and curation of materials. It is noted that OCEN has requested that curation of materials or remains be culturally determined by OCEN and ownership of non-burial material be granted to OCEN, and the plan will include these provisions. Requirements for final reporting of all field methods, results, and findings will also be specified. Finally, the plan will ensure that all Federal and State laws and regulations regarding the treatment of Native American cultural materials and Native American burials would be adhered to, including appropriate notification to the NAHC regarding findings of Native American artifacts. The ARDTP shall be developed with the coordination and concurrence of the County and OCEN, and in</p>	<p>Component: EPB SRPS</p> <p>Activity: Archaeological Data Recovery</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Archeologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">OCEN Representative</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<p>accordance with the Secretary of the Interior’s standards and guidelines (36 CFR 800.9(c)(1)).</p> <p>The archaeologist shall consult with the OCEN representative during the preparation of the ARDTP to ensure to the degree prudent and feasible, and bearing in mind project goals, that the proposed work is in keeping with OCEN traditions and sensibilities.</p> <p>Once approved by the County, a data-recovery investigation and/or other treatment consistent with the ARDTP shall be conducted by the archaeologist. At the conclusion of the work, the archaeologist shall submit a draft and final Archaeological Data Recovery Report (ADRR) to the County that describes the archaeological and historical research methods employed in the data recovery program, and presents, analyzes, and interprets the recovered data. Once approved by the County, a copy of the ADRR shall be distributed to the relevant California Historical Resources Information System Information Center along with copies of all formal site record forms (DPR 523).</p> <p>All artifacts determined in consultation between the archaeologist and OCEN representative to be neither burial related nor sacred could be curated together with copies of field notes and relevant reports in a suitable archaeological curation facility, preferably within Monterey County, if approved by OCEN and under agreement that all artifacts be returned to OCEN. The final disposition of non-burial related but sacred artifacts (if any) will be determined by the OCEN representative.</p>				
<p>CR-2c: Archaeological Monitoring</p> <p>A qualified archaeologist shall be on call to quickly assess any potentially significant cultural materials, archaeological resources, or human remains that might be uncovered during implementation of the ISMP project component. In addition, an OCEN monitor shall be on site during excavation activities. The qualified archeologist shall communicate and coordinate with the OCEN monitor in regard to all data collection and the evaluation of all Native American artifacts. Prior to the issuance of any grading permit, an on-call qualified archaeologist will be retained and the OCEN will be provided contact, access, and schedule information sufficient to facilitate their monitoring effort. If, at any time during earthwork, potentially significant cultural resources are encountered, work shall cease within 50 meters of the find until the archaeologist and an OCEN monitor can evaluate the discovery. If the find is determined</p>	<p>Component: ISMP</p> <p>Activity: Archaeological Monitoring</p> <p>Timing: During construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: SHPO</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Archeologist</p> <hr/> <p>Initials</p> <hr/>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>by the archaeologist to be potentially eligible to the NRHP or CRHP, steps shall be taken to protect the find from damage or disruption. The State Historic Preservation Officer and the County will be notified. Additionally, an appropriate mitigation plan shall be developed by the archaeologist and implemented with the concurrence of the State Historic Preservation Officer, County, and, if the find is Native American, in consultation with an OCEN representative.</p>		<p>Date</p> <p>OCEN Representative</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>		
<p>CR-2d: Accidental Discovery of Archaeological Resources</p> <p>If archaeological resources are unexpectedly discovered during ISMP project component implementation, work shall be halted within 50 meters of the find until it can be evaluated by a qualified professional archaeologist and OCEN monitor. If the find is determined to be significant, appropriate mitigation measures shall be formulated and implemented, with the concurrence of the lead agency (the County). If determined appropriate and necessary by the OCEN monitor, they shall selectively screen soil samples through 1/8" mesh to facilitate data recovery. All Native American-derived materials remaining in the screen shall be offered to the Chairperson of the OCEN.</p>	<p>Component: ISMP</p> <p>Activity: Accidental Discovery of Archaeological Resources</p> <p>Timing: During construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Archeologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>OCEN Representative</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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Mitigation Measure	Project Component/Activity/ Timing/Frequency/ Agency Coordination	Implementation Responsibility/ Verification	Responsible Party for Oversight of Compliance/ Verification	Comments
<p>CR-3: Discovery of Human Remains</p> <p>If human remains are unexpectedly discovered during any construction, work shall be halted within 50 meters and the County Coroner shall be notified in accordance with provisions of PRC Sections 5097.98-99. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four hours of the determination, as required by California Health and Safety Code Section 7050.5(c) and PRC 5097. The NAHC shall identify the person or persons it believes to be most likely descended (MLD) from the deceased Native American (PRC Section 5097.98). The County, MLD, and qualified archaeologist shall follow the measures identified in the ARDTP, required as part of Mitigation Measure CR-2b, for the respectful treatment, with appropriate dignity, of human remains and associated or unassociated funerary objects (CEQA Guidelines Section 15064.59(d)). The measures identified in the ARDTP will take into consideration the appropriate excavation, removal, recordation, analysis, custodianship, and final disposition of the human remains and associated or unassociated funerary objects. All efforts will be made to leave the remains in place, if possible, as culturally determined by OCEN. The ARDTP will identify the reburial site(s) in the event that reburial is determined to be the appropriate disposition and treatment of human remains. The reburial site(s) will be determined in a location mutually agreed upon by the OCEN, the landowner, and the County, as appropriate, and shall be in a location not subject to further subsurface disturbance.</p>	<p>Component: EPB SRPS ISMP</p> <p>Activity: Discovery of Human Remains</p> <p>Timing: During construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: OCEN</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Archeologist</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">OCEN Representative</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	
Hydrology & Water Quality				
<p>HYD-4: Implementation of Water Quality Treatment BMPs</p> <p>The project shall adhere to the conditions of the NPDES Permit, including the requirements for stormwater discharge treatment measures and appropriate source control and site design measures. To avoid potential long-term impacts to water quality, the EPB project component will be designed to include bioswales or other water quality treatment BMPs to retain and treat stormwater runoff. Treatment BMPs that have been approved for use a treatment by the SWRCB include:</p> <ul style="list-style-type: none"> Biofiltration Strips and Swales, 	<p>Component: EPB</p> <p>Activity: Water Quality Treatment BMPs in Final Design for EPB</p> <p>Timing: Prior to construction</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Engineer</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<ul style="list-style-type: none"> • Infiltration Basins, • Detention Devices, • Traction Sand Traps, • Dry Weather Flow Diversion, • Gross Solids Removal Devices, • Media Filters, • Multi-Chamber Treatment Trains, and • Wet Basins. <p>Water-quality treatment BMPs shall be included in the final design for the EPB project component. One or a combination of the above-mentioned treatment BMPs may be implemented. These treatment BMPs may be sited at the ends of the roads that route surface runoff towards the Lagoon, landward of the EPB project component, or at other locations as determined appropriate by the project engineer and/or contractor during final design and SWPPP preparation.</p>	<p>Frequency: Once</p> <p>Agency Coordination: N/A</p>	<p>Initials</p> <hr/> <p>Date</p> <p>Project Hydraulic Engineer</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>		
<p><i>HYD-7: Avoid and Minimize Impacts to the Validity of Base Level Elevations City on the Current, Effective FEMA Flood Insurance Map Panel</i></p> <p>In order to reduce potential adverse effects associated with possible impacts to the validity of the base flood elevations cited on the currently, effective FEMA Flood Insurance Rate Map Panel for the EPB project component site, the County shall submit design drawings to FEMA showing the existing, pre-developed floodplain conditions and the proposed floodplain conditions after installation of the EPB project component. A FEMA Conditional Letter of Map Revision (CLOMR) is required to be processed prior to construction of the EPB project component to have FEMA review and determine the precise way in which the flood map would be revised. Following the completion of the proposed project, a FEMA Letter of Map Revision (LOMR) request would need to be processed and the flood map officially updated to reflect the revision.</p>	<p>Component: EPB</p> <p>Activity: Obtain a FEMA CLOMR and LOMR</p> <p>Timing: Prior to and post construction</p> <p>Frequency: Once prior to and once post construction</p> <p>Agency Coordination: MCWRA, FEMA</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Monterey County Water Resources Agency</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	
Noise				

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<p><i>NV-1: Ground-borne Vibration and Noise Reduction Measures</i></p> <p>To reduce ground vibration impacts associated with sheet pile driving, the following measures are recommended for construction of the EPB project component.</p> <p>a. Implement Mitigation Measure NV-2 (Construction Noise Reduction Measures).</p> <p>b. Prior to initiation of pile driving activities, a Construction Vibration Mitigation Plan (CVMP) shall be developed to minimize construction vibration damage using all reasonable and feasible means available. The CVMP shall identify all areas where pile driving would result in ground vibrations at nearby structures that would exceed 0.3 in/sec ppv for potential structural damage or an annoyance threshold of 0.2 in/sec at occupied structures (e.g., residential dwellings). The CVMP shall specify the design/construction methods and equipment specifications sufficient to meet these thresholds. The CVMP shall be reviewed and approved by County planning staff prior to initiation of pile driving activities.</p> <p>c. With the permission of property owners, the contractor or designated representative(s) shall conduct pre-construction monitoring surveys for structures located within potentially affected areas that could exceed applicable thresholds for structural damage. The pre-construction surveys shall document existing structural conditions (e.g., cracks in stucco). The contractor or designated representative(s) shall respond to any complaints of damage resulting from vibration-generating activities promptly, within 5 working days after the complaint is received. Reported structural damages identified in the complaint shall be compared to pre-construction survey data/reports and a determination made as to whether damages are a result of construction-induced vibration levels. Confirmed damages shall be promptly repaired to pre-construction conditions, or better. Repairs shall be initiated within 14 working days. Pre-construction survey requirements and methodologies shall be included in the CVMP.</p> <p>d. Ground-borne vibration levels associated with pile driving activities shall be monitored when pile driving activities occur within 75 feet of existing structures. With the permission of property owners,</p>	<p>Component: EPB</p> <p>Activity: Ground-Borne Vibration and Noise Reduction Measures</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Prior to and throughout construction</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<p>monitoring should be conducted at the nearest building façade. In instances where monitoring cannot be conducted at the structure, vibration monitoring shall be conducted at the nearest accessible location (e.g., property line) and resultant vibration levels at the building façade calculated based on monitored vibration levels and commonly applied ground-attenuation rates that are reflective of site conditions. If vibration levels at the structure are found to exceed 0.3 in/sec ppv, pile driving activities shall be halted immediately and alternative construction methods implemented to maintain vibration levels below this threshold. Vibration monitoring requirements and methodologies shall be included in the CVMP.</p>				
<p>NV-2: Construction Noise Reduction Measures</p> <ol style="list-style-type: none"> 1) Prior to initiation of construction, a Construction Noise Mitigation Plan (CNMP) shall be prepared and shall include, at a minimum, the following components: <ul style="list-style-type: none"> • Identification of noise-reduction measures to be implemented with a noise-reduction goal sufficient to achieve the County’s instantaneous noise standard of 85 dBA. • A construction noise complaint and response program. • A construction noise monitoring program sufficient to provide verification that resultant noise levels associated with noise-generating construction activities would not exceed the County’s daytime intermittent noise standard of 85 dBA. 2) Advance written notification shall be provided to property owners and building occupants that are located adjacent to construction areas. 3) Noise-generating construction activities shall be limited to between the hours of 8:00 a.m. and 6:30 p.m., Monday through Saturday. Noise-generating construction activities shall be prohibited on Sundays and State-recognized holidays. 4) Construction equipment should be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds. 	<p>Component: EPB SRPS</p> <p>Activity: Construction Noise Reduction Measures</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Prior to and throughout construction</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p> <p style="text-align: center;">Project Contractor</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	<p>County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	

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<p>5) Lay-down yards and semi-stationary equipment such as pumps or generators shall be located at the furthest practical distance from noise-sensitive land uses.</p> <p>6) Quieter equipment shall be selected to the extent locally available.</p>				
<p>NV-3: Conduct Acoustical Analysis for Operational Noise Levels</p> <p>Prior to construction of the pump station and control building/emergency generator, an acoustical analysis shall be prepared to assess operational noise levels. The acoustical analysis shall identify appropriate site design and noise-attenuation features to be implemented with a noise-reduction goal sufficient to achieve daytime and nighttime noise standards of 45 dBA L_{eq} and 40 dBA L_{eq}, respectively. Noise standards shall be applied at the property line of the nearest noise-sensitive land use. The acoustical analysis shall be submitted to and approved by the County of Monterey Planning Department prior to construction.</p>	<p>Component: EPB</p> <p>Activity: Conduct Acoustical Analysis for Operational Noise Levels</p> <p>Timing: Prior to construction of pump stations and control building/emergency generator</p> <p>Frequency: Once</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p style="text-align: center;">Project Noise Consultant</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	
Public Services, Recreation, & Utilities				
<p>PS-3: Construction Waste Reduction and Recycling Plan</p> <p>The construction contractor(s) shall prepare and implement a construction waste reduction and recycling plan identifying the types of construction debris the EPB project component will generate and the manner in which those waste streams will be handled. In accordance with the California Integrated Waste Management Act of 1989, the plan shall emphasize source reduction measures, followed by recycling and composting methods, to ensure that construction and demolition waste generated by the proposed project is managed consistent with applicable statutes and regulations. In accordance with the CalGreen Standards and local regulations, the plan shall specify that all trees, stumps, rocks, and associated vegetation and soils, and 50% of all other nonhazardous construction and demolition waste, be diverted from landfill disposal. The plan shall be prepared in coordination with the MRWMD and be</p>	<p>Component: EPB</p> <p>Activity: Construction Waste Reduction and Recycling Plan</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Prior to, during, and post construction</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<p>consistent with the County’s Integrated Waste Management Plan. Upon project completion, the County shall collect the receipts from the contractor(s) to document that the waste reduction, recycling, and diversion goals have been met.</p>	<p>Agency Coordination: N/A</p>	<p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>		
Traffic & Circulation				
<p><i>TRA-1a: Traffic Control and Safety Assurance Plan</i></p> <p>Prior to construction of the EPB and SRPS project components, the County and/or its contractor shall prepare and implement a traffic control plan or plans for the roadways and intersections affected by construction. The traffic control plan(s) shall comply with the affected jurisdiction’s encroachment permit requirements and shall be based on detailed design plans. For all project construction activities that could affect public rights-of-ways (e.g., roadways, sidewalks, and walkways), the plan shall include measures that would provide for continuity of vehicular, pedestrian, and bicyclist access, reduce the potential for traffic accidents, and ensure worker safety in construction zones. Where project construction activities could disrupt mobility and access for bicyclists and pedestrians, the plan shall include measures to ensure safe and convenient access would be maintained.</p> <p>The traffic control and safety assurance plan shall be developed on the basis of detailed design plans for the approved project. The plan shall include, but not necessarily be limited to, the elements listed below:</p> <p><u>General</u></p> <ul style="list-style-type: none"> Develop circulation and detour plans to minimize impacts on local streets. As necessary, signage and/or flaggers shall be used to guide vehicles to detour routes and/or through the construction work areas. Implement a public information program to notify motorists, bicyclists, nearby residents, and adjacent businesses of the impending construction activities (e.g., media coverage, email 	<p>Component: EPB SRPS</p> <p>Activity: Prepare and Implement Traffic Control and Safety Assurance Plan</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Prior to, during, and post construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p> <p>Project Contractor</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	<p>County of Monterey</p> <hr/> <p>Initials</p> <hr/> <p>Date</p>	

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<p>notices, websites, etc.). Notices of the location(s) and timing of lane closures shall be published in local newspapers and on available websites to allow motorists to select alternative routes.</p> <p><u>Roadways</u></p> <ul style="list-style-type: none"> • Haul routes that minimize truck traffic on local roadways and residential streets shall be used to the extent feasible. • Schedule truck trips outside of peak morning and evening commute hours to minimize adverse impacts on traffic flow. • Limit lane closures during peak hours. Travel lane closures, when necessary, shall be managed such that one travel lane is kept open at all times to allow alternating traffic flow in both directions along affected two-lane roadways; the contractor shall use steel plates or trench backfilling to restore vehicle access at the end of each workday. • Restore roads and streets to normal operation by covering trenches with steel plates outside of normal work hours or when work is not in progress. • Comply with roadside safety protocols to reduce the risk of accidents. Provide “Road Work Ahead” warning signs and speed control (including signs informing drivers of State legislated double fines for speed infractions in a construction zone) to achieve required speed reductions for safe traffic flow through the work zone. Train construction personnel to apply appropriate safety measures as described in the plan. • Provide flaggers in school areas at street crossings to manage traffic flow and maintain traffic safety during the school drop-off and pickup hours on days when pipeline installation would occur in designated school zones. • Maintain access to private driveways. <p><u>Pedestrian and Bicyclists</u></p> <ul style="list-style-type: none"> • Perform construction that crosses on street and off-street bikeways, sidewalks, and other walkways in a manner that allows for safe access for bicyclists and pedestrians. Alternatively, provide safe detours to reroute affected bicycle/pedestrian traffic. 				

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<p><u>Recreational Trails</u></p> <ul style="list-style-type: none"> At least two weeks prior to construction, post signage along all potentially affected recreational trails, Class I, II, and III bicycle routes, and pedestrian pathways to warn bicyclists and pedestrians of construction activities. The signs shall include information regarding the nature of construction activities, duration, and detour routes. Signage shall be composed of or encased in weatherproof material and posted in conspicuous locations, including on park message boards and existing wayfinding signage and kiosks, for the duration of the closure period. At the end of the closure period, the County or its contractors shall retrieve all notice materials. <p><u>Emergency Access</u></p> <ul style="list-style-type: none"> Maintain access for emergency vehicles at all times. Coordinate with facility owners or administrators of sensitive land uses, such as police and fire stations, transit stations, hospitals, and schools. Provide advance notification to local police, fire, and emergency service providers of the timing, location, and duration of construction activities that could affect the movement of emergency vehicles on area roadways. Avoid truck trips through designated school zones during the school drop-off and pickup hours. 				
<p>TRA-1b: Construction Parking Requirements</p> <p>Prior to commencing project construction, the construction contractor(s) shall coordinate with the potentially affected jurisdictions to identify designated worker parking areas that would avoid or minimize parking displacement. The contractors shall provide transport between the designated parking location and the construction work areas. The construction contractor(s) shall also provide incentives for workers that carpool or take public transportation to the construction work areas. The engineering and construction design plans shall specify that contractors limit the time of construction within travel lanes and public parking spaces and provide information to the public about locations of alternative spaces to reduce parking disruptions.</p>	<p>Component: EPB</p> <p>Activity: Construction Parking Requirements</p> <p>Timing: Prior to and during construction</p> <p>Frequency: Ongoing during construction</p> <p>Agency Coordination: N/A</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	<p style="text-align: center;">County of Monterey</p> <hr/> <p style="text-align: center;">Initials</p> <hr/> <p style="text-align: center;">Date</p>	

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		Project Contractor <hr/> Initials <hr/> Date		
<p>TRA-1c: Roadway Rehabilitation Program</p> <p>Prior to commencing project construction, the County shall detail the preconstruction condition of all local construction access and haul routes proposed for substantial use by project related construction vehicles. The construction routes surveyed must be consistent with those identified in the construction traffic control and safety assurance plan developed under Mitigation Measure TRA-1a (described above). After construction is completed, the same roads shall be surveyed again to determine whether excessive wear and tear or construction damage has occurred. Roads damaged by project related construction vehicles shall be repaired to a structural condition equal to that which existed prior to construction activities.</p>	<p>Component: EPB SRPS</p> <p>Activity: Roadway Rehabilitation Program</p> <p>Timing: Prior to, during, and post construction</p> <p>Frequency: Ongoing during and post construction</p> <p>Agency Coordination: N/A</p>	<p>County of Monterey</p> <hr/> Initials <hr/> Date	<p>County of Monterey</p> <hr/> Initials <hr/> Date	