



City of Stockton Regional Wastewater Control Facility Modifications Project

Mitigation Monitoring and Reporting Program

State Clearinghouse No. 2018092017

PREPARED FOR:
City of Stockton
Municipal Utilities Department
2500 Navy Drive
Stockton, CA 95206

January 2019

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January 2019

MITIGATION MONITORING AND REPORTING PROGRAM

The following Mitigation Monitoring and Reporting Program (MMRP) has been prepared in compliance with the California Environmental Quality Act (CEQA) and the State CEQA Guidelines to provide for the monitoring and reporting of mitigation measures required of the proposed Regional Wastewater Control Facility (RWCF) Modifications Project (project) as set forth in the environmental impact report (EIR) prepared for the project.

Section 21081.6 of the California Public Resources Code and Section 15091(d) and 15097 of the State CEQA Guidelines require public agencies “to adopt a reporting or monitoring program for changes to the project which it has adopted or made conditions of project approval in order to mitigate or avoid significant effects on the environment.” An MMRP is required for the project because the EIR for the project identified potentially significant adverse impacts related to construction and operation of the project, and mitigation measures have been identified to reduce those impacts to less-than-significant levels.

This MMRP will be adopted by the Stockton City Council when it approves the project and will be kept on file at the City of Stockton Municipal Utilities Department, 2500 Navy Drive Stockton, CA 95206.

Unless otherwise specified herein, the City of Stockton is responsible for taking all actions necessary to implement the mitigation measures under its jurisdiction according to the specifications provided for each measure and for demonstrating that the action has been successfully completed.

As described in Section 4.6, “Terrestrial Biological Resources,” of the Draft EIR (pages 4.6-4 – 4.6-5), the City of Stockton is a permittee of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) (San Joaquin Council of Governments 2000) and has opted for coverage under the SJMSCP for incidental take of covered species associated with future urban growth within the City’s service area. As such, the City is required to mitigate for project-related conversion of natural lands and special-status species through in-lieu fees, habitat land dedication, purchase of mitigation bank credits, or by proposing an alternative mitigation plan consistent with the goals of the SJMSCP. The mitigation measures in this MMRP that address species covered by the SJMSCP are intended to be consistent with the goals of the SJMSCP, as required.

The City of Stockton is following the process for SJMSCP coverage for project-related impacts. The City understands that a qualified biologist through SJCOG, Inc. will be dispatched to the project site to conduct a pre-construction biological survey prior to project-related ground disturbance. The information collected during the survey will be used to create the project-specific Incidental Take Minimization Measures (ITMMs). Because the CEQA MMRP has been prepared to be consistent with the SJMSCP, it is anticipated that the ITMMs would be consistent with this MMRP. However, because impacts to species covered in the SJMSCP will be mitigated through that program, if the ITMMs differ from this MMRP, the ITMMs will supersede the mitigation measures herein.

This MMRP is to be used by the City of Stockton to ensure that all adopted mitigation measures identified in the EIR are implemented and that implementation is documented. The MMRP is presented in tabular format. The table columns contain the following information:

Mitigation Measure: Provides the text of the mitigation measures (as amended through the Final EIR), each of which has been adopted and incorporated into the project. The numbering of mitigation measures follows the numbering sequence found in the EIR. Mitigation measures that are referenced more than once in the EIR are not duplicated in the MMRP table.

Implementation Responsibility: Identifies the entity responsible for complying with the requirements and conditions of the mitigation measure.

Timing: Lists the timeframe in which the mitigation will be implemented.

Verification: This column is to be dated and signed by the person (either project manager or his/her designee) responsible for verifying compliance with the requirements of the mitigation measure.

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification																																																																																																															
4.6 Terrestrial Biological Resources																																																																																																																		
<p>Mitigation Measure 4.6-2: Protect and Mitigate Impacts to Special-Status Plants. Consistent with the avoidance and minimization measures in the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP), the City will implement the following measures to mitigate potential impacts to special-status plant species.</p> <p>Preconstruction</p> <p>▲ Before improvements are implemented that would affect effluent canals, and before the flow of effluent to the treatment wetlands and oxidation ponds is halted, suitable habitat for special-status plants within the project site shall be surveyed by a qualified botanist when the species' distinguishing characteristics are identifiable, such as during their typical blooming periods (Table 4.6-4). This survey will be conducted no more than one year before the start of construction or changes to the flow of effluent.</p>	<p>City of Stockton and qualified botanist</p>	<p>Conduct preconstruction survey no more than one year before the start of construction of each project element that could affect habitat for special status plants or that changes the flow of effluent. Conduct these surveys when the species' distinguishing characteristics are identifiable, such as during their typical blooming periods</p>																																																																																																																
<p>Table 4.6-4 Normal Blooming Period for Special-Status Plants with Potential to Occur on the Project Site</p>																																																																																																																		
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Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>Construction</p> <ul style="list-style-type: none"> Populations of special-status plants within 200 feet of construction footprints shall be flagged or fenced no more than 30 days before the start of construction. Flagging and fencing shall be refreshed and maintained throughout construction. <p>Avoidance of these special-status plants will be achieved when the boundaries of the viable plants plus a 200-foot buffer and including protection of those areas which may be necessary to support the hydrological regime of the plants is incorporated into the project design and includes provisions for protection and management of the avoided area in perpetuity. Proposals for substituting complete avoidance of impacts to these species requires the review and approval of the SJMSCP Joint Powers Authority (JPA) to verify that a viable population of the species exists and is worthy of preservation. Concurrence by the permitting agencies for these substitutions is not required.</p>	<p>City of Stockton and qualified biologist</p>	<p>Flag or fence populations of special-status plants, if any, no more than 30 days before the start of construction of each project element that could affect habitat for special status plants; refresh and maintain flagging and fencing throughout construction</p>	
<p>Treatment Wetland and Oxidation Ponds</p> <ul style="list-style-type: none"> If no special-status plants are observed within the treatment wetlands or oxidation ponds, then further mitigation would not be required. If special-status plants are observed within the treatment wetlands or oxidation ponds, the City will prepare a mitigation and monitoring plan that will include a detailed analysis of the potential impacts on wetland or open water habitat following the hydrology regime shift and the potential impacts on special-status plants. If it is determined that special-status plants present within these features would persist without a consistent flow of effluent, then the plants will be monitored as outlined in the mitigation and monitoring plan. If it is determined that the changes in effluent conveyance would result in loss of these plants, then a mitigation or transplantation plan would be implemented as outlined in the mitigation and monitoring plan and in accordance with the SJMSCP. 	<p>City of Stockton and qualified biologist</p>	<p>Prepare mitigation and monitoring plan prior to halting the flow of effluent to the treatment wetlands and oxidation ponds if special-status plants are observed within the treatment wetlands or oxidation ponds; monitor plants, if present, as outlined in the mitigation and monitoring plan; implement mitigation or transplantation plan if plants would be lost</p>	
<ul style="list-style-type: none"> All populations of Delta button-celery, slough thistle, and Sanford’s arrowhead shall be avoided in accordance with the identified measures in Section 5.5.9(F) of the SJMSCP. The SJMSCP does not permit destruction of these species. If avoidance is not feasible, a compensation plan for Delta button-celery, slough thistle, and Sanford’s arrowhead shall be developed in conjunction with the California Department of Fish and Wildlife (CDFW). The plan shall determine the appropriate measures to minimize direct and indirect impacts that could occur as a result of project construction and shall describe measures to achieve no net loss of occupied habitat or individuals. Measures may include preserving and enhancing existing populations, creation of offsite populations on project mitigation sites through seed collection or transplantation, restoring or creating suitable habitat in sufficient quantities, or paying an in-lieu fee to achieve no net loss of occupied habitat and/or individuals. 	<p>City of Stockton and qualified biologist</p>	<p>Avoid populations of Delta button-celery, slough thistle, and Sanford’s arrowhead throughout construction</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>▲ If impacts to special-status plant species cannot be avoided, the City will implement compensation requirements provided in the SJMSCP, which may include species relocation to SJMSCP Preserves, seed collection for propagation on SJMSCP Preserves, or payment of SJMSCP fees such that no net loss of occupied habitat and/or individuals would occur.</p>	<p>City of Stockton and qualified biologist</p>	<p>Implement compensation requirements provided in the SJMSCP before the start of construction</p>	
<p>▲ If watershield, which is not covered under the SJMSCP, is found and cannot be avoided during construction, the City shall consult with CDFW and/or the U.S. Fish and Wildlife Service (USFWS), as appropriate depending on species status, to determine the appropriate measures to achieve no net loss of occupied habitat or individuals. Mitigation measures may include preserving and enhancing existing populations, creation of offsite populations on mitigation sites through seed collection or transplantation, and/or restoring or creating suitable habitat in sufficient quantities to achieve no net loss of occupied habitat and/or individuals. A mitigation and monitoring plan shall be developed describing how unavoidable losses of special-status plants will be compensated.</p>	<p>City of Stockton and qualified biologist</p>	<p>Consult with CDFW and/or USFWS depending on species status prior to project initiation to determine appropriate measures; develop mitigation and monitoring plan before the start of construction</p>	
<p>Mitigation Measure 4.6-3: Avoid and Minimize Effects on Giant Garter Snake. The City will implement the following measures to avoid potentially significant impacts on giant garter snake, consistent with the avoidance and minimization measures in the SJMSCP. All mitigation listed below shall be limited to construction within 200 feet of potential aquatic habitat.</p> <p>▲ All construction activities within 200 feet of aquatic habitat suitable for giant garter snakes shall be conducted during the snake's active season of May 1 to October 1 so that snakes can move and avoid danger. For any construction outside of this period, USFWS and CDFW will be consulted to determine whether additional measures are necessary to avoid or minimize potential impacts during the inactive season and avoid take.</p>	<p>City of Stockton</p>	<p>Conduct construction activities within 200 feet of aquatic habitat suitable for giant garter snakes during the snake's active season (May 1 to October 1)</p>	
<p>▲ Aquatic habitat shall be dewatered at least two weeks before commencing construction.</p>	<p>City of Stockton</p>	<p>At least two weeks before commencing construction of each project element that requires dewatering of aquatic habitat</p>	
<p>▲ Within 24 hours before beginning construction or ground disturbing activities within 200 feet of suitable aquatic habitat for giant garter snakes, a qualified biologist shall inspect areas of anticipated disturbance for the presence of giant garter snakes. The construction area shall be re-inspected whenever a lapse in construction activity of 2 weeks or more has occurred. The monitoring biologist shall be available thereafter; if a snake is encountered during construction activities, the monitoring biologist shall have the authority to stop construction activities until appropriate corrective measures have been completed or it is determined that the snake will not be harmed.</p>	<p>City of Stockton and qualified biologist</p>	<p>Within 24 hours before beginning construction or ground disturbing activities within 200 feet of suitable aquatic habitat for giant garter snakes</p>	
<p>▲ Giant garter snakes encountered during construction activities shall be allowed to move away from construction activities on their own. Any sightings or incidental take must be reported within 24 hours to the USFWS by telephone at (916) 414-6600.</p>	<p>City of Stockton</p>	<p>During construction</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> ▲ Heavy equipment and vehicular movement within 200 feet of the banks of aquatic habitat shall be restricted to existing access roads and the predetermined staging and construction sites to minimize habitat disturbance. 			
<ul style="list-style-type: none"> ▲ Before ground disturbance, all onsite construction personnel shall be instructed by a qualified biologist regarding the potential presence of giant garter snakes, the importance of avoiding impacts on this species and its habitat, and recognition of giant garter snakes and their habitat(s). 	City of Stockton and qualified biologist	Prior to or on the first day of construction activity	
<ul style="list-style-type: none"> ▲ During construction operations, temporary stockpiling of construction materials, portable equipment, vehicles, supplies, and soil will be restricted to designated construction staging areas. To avoid attracting predators of the snake, all food-related trash items, such as wrappers, cans, bottles, and food scraps, will be disposed of in closed containers. ▲ In areas where treatment wetlands, irrigation ditches, or other potential giant garter snake habitats are being retained on the site: <ul style="list-style-type: none"> ▶ A qualified biologist shall install temporary exclusion fencing around suitable upland habitat within 200 feet of aquatic habitat to prevent giant garter snakes from entering the work area during construction. The fencing shall be maintained for the duration of the construction activities. The primary construction contractor will inspect the fencing before the start of each work day and will maintain the fencing in place until all construction activities are completed. ▶ Ground disturbance, spoils, and equipment storage and other project activities shall not be allowed within the fenced area. ▶ The water quality shall be maintained and construction runoff into wetland areas shall be limited through the use of hay bales, filter fences, vegetative buffer strips, or other accepted equivalents. However, no plastic, monofilament, jute, or similar matting to control erosion that could entangle snakes shall be placed in the project site. ▲ Other provisions of the USFWS Standard Avoidance and Minimization Measures during Construction Activities in Giant Garter Snake Habitat shall be implemented. 	City of Stockton	During construction	
<p>Mitigation Measure 4.6-4: Conduct Western Pond Turtle Preconstruction Surveys and Relocation. The City will implement the following measures to avoid potentially significant impacts on western pond turtle, consistent with the avoidance and minimization measures in the SJMSCP. All mitigation listed below shall be limited to construction within 0.3 mile of potential aquatic habitat.</p> <ul style="list-style-type: none"> ▲ A preconstruction survey for western pond turtle shall be conducted by a qualified biologist before work in suitable aquatic habitat. If no pond turtles are observed, no further mitigation is necessary. 	City of Stockton and qualified biologist	Before construction activities for project elements in suitable aquatic habitat	
<ul style="list-style-type: none"> ▲ During the draining of the treatment wetlands, a qualified biologist shall be present to survey for western pond turtles. If pond turtles are observed, a qualified biologist, with approval from CDFW, shall relocate pond turtles to the nearest area with suitable aquatic habitat that will not be disturbed by project-related construction activities. 	City of Stockton and qualified biologist	During the final stages of the draining of the treatment wetlands	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> ▲ If nesting areas for pond turtles are identified on the project site, a buffer area of 300 feet shall be established between the nesting site (which may be immediately adjacent to wetlands or extend up to 400 feet away from wetland areas in uplands) and the wetland located near the nesting site. These buffers shall be indicated by temporary fencing if construction has or will begin before nesting periods are ended (the period from egg laying to emergence of hatchlings is normally April to November). 	<p>City of Stockton</p>	<p>If nesting areas for pond turtles are identified, the buffer for those nesting sites shall be established before construction begins</p>	
<p>Mitigation Measure 4.6-5: Protect Burrowing Owls. The City will implement the following measures consistent with the SJMSCP to avoid, minimize, and mitigate impacts on burrowing owl.</p> <ul style="list-style-type: none"> ▲ The City will retain a qualified biologist to conduct focused breeding and nonbreeding season surveys for burrowing owls in areas of suitable habitat on and within 150 meters of project activities. Surveys will be conducted before the start of construction activities during breeding season. Surveys will be conducted before project activity in accordance with Appendix D of CDFW's <i>Staff Report on Burrowing Owl Mitigation</i> (CDFW 2012). ▲ If no occupied burrows are found, a letter report documenting the survey methods and results shall be submitted to the City and no further mitigation would be required. ▲ If burrowing owls are discovered during preconstruction surveys and can be avoided during project activities, a protective buffer around the burrow shall be established in conjunction with the JPA and consistent with the SJMSCP. ▲ During the breeding season (February 1 through August 31) occupied burrows shall not be disturbed. The development of a protective buffer shall be supported by a qualified biologist. The protective buffer will be informed by monitoring the burrowing owls' sensitivity and will be put in place to prevent burrow destruction and disturbance to nest sites (including nest abandonment and loss of eggs or young). The 2012 CDFW Staff report identifies variables to consider for the buffer such as habitual disturbances (visual and audible), existing vegetation, and type and extent of disturbance and impact. The staff report gives general guidelines for buffers during the breeding season. It recommends that, at minimum, the protective buffer during the breeding season be 200 meters; moving up to 500 meters for high levels of disturbance. These guidelines shall be followed. If activities are allowed closer than these recommended setback distances, then a broad-scale, long-term, scientifically-rigorous monitoring program that ensures that the owls are not detrimentally affected by the alternative approach shall be conducted. The protective buffer shall remain until the end of the breeding season unless a qualified biologist approved by the permitting agencies verifies through non-invasive means that either: (1) the birds have not begun egg-laying, or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. Once the fledglings are capable of independent survival, the burrow can be destroyed. 	<p>City of Stockton and qualified biologist</p>	<p>Conduct focused breeding and nonbreeding season surveys in areas that could provide burrowing owl habitat before the start of construction activities in these areas during the breeding season; if owls are discovered, establish protective buffer around the burrow before construction begins; do not disturb occupied burrows during the breeding season (February 1 through August 31); maintain protective buffer until the end of the breeding season (August 31) If construction does not begin, or is delayed for several months in an area of burrowing owl habitat, this survey would need to be done again</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>Mitigation Measure 4.6-6: Protect Swainson’s Hawk, White-Tailed Kite, and Other Nesting Raptors. The City will implement the following measures consistent with the SJMSCP to avoid, minimize, and mitigate impacts on Swainson’s hawk, white-tailed kite, northern harrier, and other nesting raptors.</p> <ul style="list-style-type: none"> ▲ If removal of a known nest tree is required, it shall be removed between September 16 and February 14. ▲ If project activity would commence between February 15 and September 15, a qualified biologist will be retained to conduct preconstruction surveys for active nests on and within 0.5 mile of the project site no more than 14 days and no less than 7 days before commencement. ▲ If an occupied nest is present, CDFW guidelines recommend implementation of 0.25- mile buffer for Swainson’s hawk and 500 feet for other raptors, but the size of the buffer may be adjusted if a qualified biologist and CDFW determine that it would not be likely to adversely affect the nest. No project activity will commence within the buffer area until a qualified biologist confirms that the nest is no longer active or that the young have fully fledged. Monitoring of the nest by a qualified biologist will be required if the activity has potential to adversely affect the nest. 	<p>City of Stockton and qualified biologist</p>	<p>Remove known nest tree between September 16 and February 14; conduct preconstruction surveys for active nests no more than 14 days and no less than 7 days before commencement of construction of project elements in the vicinity of nesting trees; establish appropriate buffers around active nests before construction begins; monitor active nests throughout construction if the activity has potential to adversely affect the nest</p>	
<p>Mitigation Measure 4.6-7: Protect Tricolored Blackbird, Song Sparrow (“Modesto” Population), and Other Nesting Birds.</p> <p><u>Tricolored Blackbird</u></p> <p>Consistent with the avoidance and minimization measures in the SJMSCP, the City will implement the following measures to reduce impacts on tricolored blackbird:</p> <ul style="list-style-type: none"> ▲ A qualified biologist shall conduct a preconstruction survey for any project activity that would occur during the tricolored blackbird nesting season (March 1–August 31) and within 500 feet of suitable nesting habitat, including freshwater marsh and patches of thorny or prickly vegetation. The survey shall be conducted within 14 days before project activity begins. ▲ If no tricolored blackbird colony is present, no further mitigation is required. If a colony is found, the qualified biologist will establish a no-disturbance buffer around the nesting colony. No project activity will commence within the buffer area until a qualified biologist confirms that the colony is no longer active. A setback of 500 feet from colonial nesting areas shall be established and maintained during the nesting season for the period encompassing nest building and continuing until fledglings leave nests. This setback applies whenever construction or other ground-disturbing activities must begin during the nesting season in the presence of nests which are known to be occupied. Setbacks shall be marked by brightly colored temporary fencing. <p><u>Song Sparrow (“Modesto” Population) and Other Nesting Birds</u></p> <ul style="list-style-type: none"> ▲ A qualified biologist shall conduct a preconstruction survey for any project activity that would occur during the nesting bird season (March 1–August 31) and within 500 feet of suitable nesting habitat, including shrubs, riparian vegetation, and trees. The survey shall be conducted within 14 days before project activity begins. 	<p>City of Stockton and qualified biologist</p>	<p>Conduct preconstruction survey within 14 days before construction of project elements in the vicinity of suitable nesting habitat; establish buffer around the nesting colony, if present, before construction begins; maintain setbacks during the nesting season for the period encompassing nest building and continuing until fledglings leave nests</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>▲ If no nesting birds are found, no further mitigation is required. If nests are found, the qualified biologist will establish a no-disturbance buffer around the nest. A 10-foot buffer for songbirds is typically sufficient to protect the nest from disturbance but will be determined by a qualified biologist. Buffer size may vary based on bird species, listing status of the species, and other factors including distance from construction activity, type and duration of construction activity, and whether the nest is within the line-of-sight of construction activity. The size of the buffer may be adjusted if the qualified biologist and the City, in consultation with CDFW, determines that such an adjustment would not be likely to adversely affect the nest.</p>			
<p>Mitigation Measure 4.6-8: Conduct Surveys for and Protect Valley Elderberry Longhorn Beetle. In 2017, USFWS provided updated guidelines for assessing impacts to valley elderberry longhorn beetle (USFWS 2017). The City, however, will use guidelines outlined in the SJMSCP. The measures regarding valley elderberry longhorn beetle in the SJMSCP have not been revised due to the “no surprises” assurance provided by USFWS in the habitat conservation plan (HCP) process. The City will implement the following measures to avoid, minimize, and mitigate impacts on valley elderberry longhorn beetle consistent with the SJMSCP:</p> <ul style="list-style-type: none"> ▲ A qualified biologist shall be retained by the City to conduct a preconstruction survey to count and measure elderberry stems and determine whether valley elderberry longhorn beetle exit holes are present prior to implementation of the project for all elderberry shrubs within or adjacent to the project footprint. ▲ The following measures will be implemented for all elderberry shrubs that will be retained on the project site: <ul style="list-style-type: none"> ▶ A construction setback of 20 feet from the drip line of each elderberry shrub shall be established. ▶ Brightly colored flags and fencing shall be placed surrounding elderberry shrubs during project activities. ▶ Ground disturbing activities on the project site shall not alter the hydrology of the site or otherwise affect the likelihood of vigor or survival of elderberry shrubs. ▶ Project activities, such as truck traffic or other use of machinery, shall not create excessive dust on the project site, such that the growth or vigor of elderberry shrubs is adversely affected. ▶ Areas that are disturbed temporarily shall be restored to pre-disturbance conditions. Erosion control measures shall be implemented to restore areas disturbed within 100 feet of elderberry shrubs. ▶ No insecticides, herbicides, fertilizers, or other chemicals shall be used within 100 feet of elderberry shrubs. ▲ The following measures will be implemented for all elderberry shrubs planned for removal from the project site: <ul style="list-style-type: none"> ▶ For all shrubs with evidence of valley elderberry longhorn beetle exit holes (as determined during the preconstruction survey) that cannot be avoided by the project, the City shall undertake 	<p>City of Stockton and qualified biologist</p>	<p>Conduct preconstruction survey before construction begins; implement measures throughout construction</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>transplanting of these elderberry shrubs to valley elderberry longhorn beetle mitigation sites during the dormant period for elderberry shrubs (November 1 - February 15).</p> <ul style="list-style-type: none"> ➤ If elderberry shrubs with evidence of valley elderberry longhorn beetle exit holes cannot be transplanted, the City shall provide mitigation within SJMSCP Preserves of three new plants for each stem 1 inch in diameter or greater (as determined during the preconstruction survey) to be removed from the project site. ➤ For all elderberry shrubs without exit holes that cannot be avoided by the project, the City shall provide mitigation within SJMSCP Preserves of three new plants for each stem over 1 inch in diameter or greater (as determined during the preconstruction survey) to be removed from the project site. 			
<p>Mitigation Measure 4.6-9: Protect Special-Status Bats. The City shall implement the following measures to avoid, minimize, and mitigate impacts on special-status bat species, consistent with the SJMSCP:</p> <ul style="list-style-type: none"> ▲ A qualified biologist shall be retained to conduct surveys for roosting bats before demolition of buildings. Surveys will consist of daytime pedestrian surveys to look for visual signs of bats (e.g., guano) and/or evening emergence surveys to note the presence or absence of bats, if determined necessary. If evidence of bat use is observed, the number and species of bats using the roost will be determined. If no evidence of bat roosts are found, then no further study shall be required. ▲ If roosts of pallid bat or other special-status bats are determined to be present and must be removed, the bats shall be excluded from the roosting site before the building is removed or renovated. Exclusion methods may include use of one-way doors at roost entrances (bats may leave but not re-enter), or sealing roost entrances when the site can be confirmed by a bat expert to contain no bats. Exclusion efforts may be restricted during periods of sensitive activity (e.g., during hibernation or while females in maternity colonies are nursing young). <ul style="list-style-type: none"> ➤ Before the nursery season (April through August), nursery sites shall be sealed. ➤ If identified on the project site, hibernation sites shall be sealed before the hibernation season (November through March). ➤ If colonial roosting sites are identified in structures proposed for removal, such removal shall occur outside of the nursery and/or hibernation seasons and shall occur during dusk and/or evening hours after bats have left the roosting site. 	<p>City of Stockton and qualified biologist</p>	<p>Conduct surveys before demolition of buildings; if roosts are present and must be removed, exclude bats from the roosting site before the building is removed or renovated; seal nursery sites before the nursery season (April through August); seal hibernation sites before the hibernation season (November through March); remove colonial roosting sites outside of the nursery and/or hibernation seasons and during dusk and/or evening hours after bats have left the roosting site</p>	
<p>Mitigation Measure 4.6-10: Protect Riparian Habitat. The City shall implement the following measures to avoid, minimize, and mitigate impacts on riparian habitat, consistent with the SJMSCP:</p> <ul style="list-style-type: none"> ▲ A qualified biologist shall be retained to conduct a survey for riparian habitat with the RWCF project site. ▲ The qualified biologist shall establish a construction buffer of at least 100 feet measured from the outer (project-site) edge of the dripline of the riparian habitat. The buffer shall be marked by brightly colored fencing of flagging visible to construction workers, including heavy equipment operators, throughout the construction process. 	<p>City of Stockton and qualified biologist</p>	<p>Conduct survey of riparian habitat before construction begins; establish construction buffer before construction begins; implement erosion control measures throughout construction; provide training to construction personnel prior to</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<ul style="list-style-type: none"> ▲ Appropriate erosion control measures (e.g., hay bales, filter fences, vegetative buffer strips, or other accepted equivalents) to reduce siltation from project sites will be installed, if deemed necessary by the qualified biologist. ▲ The qualified biologist shall provide training to all on-site construction personnel regarding the presence of the sensitive habitat and the importance of avoiding impacts to the habitat. 		<p>or on the first day of construction activity</p>	
<p>4.8 Cultural and Tribal Cultural Resources</p>			
<p>Mitigation Measure 4.8-2: Halt Ground-disturbing Activity Upon Discovery of Subsurface Archaeological Resources and Tribal Cultural Resources. The City shall implement cultural resource training of construction personnel to make them aware of the cultural value of the area, including the potential for tribal cultural resources to be present near the project site, and to educate them on how to best avoid impacting such resources, if encountered. If archaeological resources and/or tribal cultural resources are discovered during project-related construction activities all ground disturbance within a minimum of 100 feet of the find shall be halted until a qualified professional archaeologist can evaluate the discovery. The archaeologist shall examine the resources, assess their significance, and recommend appropriate procedures to either further investigate or mitigate adverse impacts. If the find is determined to be a significant historical resource and the archaeological resource cannot be avoided, then applicable mitigation measures for significant resources shall be completed (e.g., preservation in place, data recovery program pursuant to PRC Section 21083.2[i]). In the event that tribal cultural resources are discovered during ground disturbing activities, the City shall notify the United Auburn Indian Community of the Auburn Rancheria and the Northern Valley Yokuts Tribe by email. During evaluation or mitigative treatment, ground disturbance and construction work could continue on other parts of the project area.</p>	<p>City of Stockton and qualified archaeologist</p>	<p>Conduct cultural resource training before construction begins; halt ground disturbance during construction activities when archaeological resources and/or tribal cultural resources are discovered</p>	
<p>Mitigation Measure 4.8-3: Halt Ground-disturbing Activity Upon Discovery of Human Remains. If human remains are discovered, all work within a minimum of 100 feet of the discovery site shall halt immediately. The City shall notify the County Coroner, as stipulated in Section 7050.5 of the California Health and Safety Code. The Coroner shall determine whether the remains are Native American and, if so, shall contact the Native American Heritage Commission by telephone within 24 hours. The Commission shall follow the stipulations in PRC Section 5097.98, including determination of a most likely descendent. If the Commission is unable to identify a descendant, the descendant is unable to make a recommendation, or the landowner rejects the recommendation, the Commission shall mediate any dispute between the parties. Where such mediation fails to provide measures acceptable to the landowner, the landowner shall reinter the human remains and associated funerary items with appropriate dignity on the property, in a location not subject to further subsurface disturbance.</p>	<p>City of Stockton and qualified archaeologist</p>	<p>During construction activities when human remains are discovered</p>	
<p>Mitigation Measure 4.8-4: Halt Ground-disturbing Activity Upon Discovery of Paleontological Resources. If fossils or other paleontological resources are encountered during construction, all work shall be halted within a 100-foot radius of the find and a qualified paleontologist shall be contacted to examine the find and evaluate its significance. If the find is deemed to have significant scientific value, the paleontologist and the City shall formulate a plan to either avoid impacts or to continue construction without disturbing the integrity of the find</p>	<p>City of Stockton and qualified paleontologist</p>	<p>During construction activities when paleontological resources are discovered</p>	

Summary of Environmental Impacts and Mitigation Measures

Mitigation Measures	Implementation Responsibility	Timing	Verification
<p>(e.g., by carefully excavating the material containing the resources under the direction of the paleontologist followed by routine conservation, laboratory preparation, and curation). Recommendations determined by the City to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered.</p>			
<p>4.11 Transportation and Circulation</p>			
<p>Mitigation Measure 4.11-1: Implement a Construction Traffic Management Plan. The City of Stockton will prepare and implement a Traffic Management Plan (TMP) that addresses the specific steps to be taken before, during, and after construction to minimize temporary construction traffic impacts. The City will be responsible for developing the TMP in consultation with the applicable transportation entities, including the following:</p> <ul style="list-style-type: none"> ▲ Caltrans for state and federal roadway facilities, and ▲ City of Stockton Fire Department and Police Department for emergency services. <p>The City shall prepare the TMP before construction. The TMP shall ensure that acceptable operating conditions on local roadways and freeway facilities are maintained during construction activities. At a minimum, the TMP shall include:</p> <ul style="list-style-type: none"> ▲ construction schedule and time; ▲ description of material delivery routes, number of truck trips, and specification of construction vehicle travel hour limits; ▲ maintenance of safe and efficient access routes for emergency vehicles; ▲ manual traffic control when necessary; ▲ submittal of the construction TMP to local emergency response agencies and notification to such agencies shall at least 14 days before the commencement of construction that would partially or fully obstruct roadways; and ▲ posting of contact information in case of emergency or complaint. <p>If necessary to minimize unexpected operational impacts or delays experienced during real-time construction, the City will also be responsible for modifying the TMP to address such effects.</p>	<p>City of Stockton</p>	<p>Prepare TMP before construction; implement TMP throughout construction</p>	

References

California Department of Fish and Wildlife. 2012. *Staff Report on Burrowing Owl Mitigation*. Available: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843>. Accessed August 28, 2018.

CDFW. See California Department of Fish and Wildlife.

U.S. Fish and Wildlife Service. 2017. *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*)*. Sacramento, California. 28 pp.

USFWS. See U.S. Fish and Wildlife Service.