

Appendix E

Mitigation Monitoring and Reporting Program

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APPENDIX E

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation and Monitoring Reporting Program (MMRP) has been prepared based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed North Coast System Rehabilitation Project – Phase 3 Coast Segment (proposed project). The purpose of the MMRP is to ensure the implementation of mitigation measures identified as part of the environmental review for the project. The MMRP includes the following information:

- A list of mitigation measures;
- The party responsible for implementing the mitigation measure;
- The timing for implementation of the mitigation measure;
- The agency/city department responsible for monitoring the implementation; and
- The monitoring action and frequency.

The City of Santa Cruz must adopt this MMRP, or an equally effective program, if it approves the North Coast System Rehabilitation Project – Phase 3 Coast Segment with the mitigation measures that were adopted or made conditions of project approval.

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| Biological Resources | | | | |
| <p>Mitigation Measure RP-1: Preconstruction surveys for special-status plants shall be conducted if construction is initiated after August 2015. The surveys shall follow standard survey protocols and shall be timed to occur when target species are present and identifiable. If special-status plant species are identified, the following Mitigation Measures RP-2 through RP-5 shall be implemented.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. ▪ Measure required only if construction begins after August 2015. | <p>The City of Santa Cruz Water Department (SCWD) is responsible for implementing the measure using a qualified biologist.</p> | <p>Conduct survey prior to initiation of construction, if construction is to begin after August 2015.</p> | |
| <p>Mitigation Measure RP-2: Prior to the initiation of construction activities, population boundaries for special-status plant species shall be clearly delineated with visible flagging or fencing, which shall remain in place for the duration of construction activities. Flagged areas shall be avoided during construction activities in that area. Warning signs shall be posted on the temporary fencing to alert excavators and other workers not to proceed beyond the fence. All protective fencing shall remain in place until all repairs have been completed. Signs shall include the following language: "NOTICE: SENSITIVE HABITAT AREA. DO NOT ENTER." If the area cannot be avoided and it is determined that the activity will adversely affect the special-status plant species, the activity shall be conducted outside of the bloom period for that species to the extent practicable. In the appropriate season prior to construction, seed from the special-status plant species shall be collected from plants within the impact area and stored. Soil excavation activities in areas where special-status plant species are known to occur shall ensure that the topsoil will be segregated to preserve the viability of the seed bank. To adequately capture the seed bank, the top few inches of soil shall be removed and appropriately stored. Upon completion of the project, the soil shall be replaced in the area affected and seed collected from plants within the impact area shall be hand broadcast onto the revegetated area. Success of the revegetation efforts shall be monitored for a</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate protective fencing/flagging and revegetation requirements as part of construction specifications, only if special-status plants are identified during RP-1. | <ul style="list-style-type: none"> ▪ SCWD and qualified biologist are responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ If special-status plants are identified during RP-1, a qualified biologist (approved by the City) is responsible for periodic site visits during and following construction to ensure protection measures and revegetation efforts are being implemented. | <p>If special-status plants are identified during RP-1, conduct monitoring prior to, during and following grading and construction activities, at the discretion of the qualified biologist.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>minimum of five years, wherein the number of plant species growing within the area shall be inventoried. The revegetation shall be deemed successful if the alignment attains 50 percent of the pre-disturbed number of plants. If no special-status plant species are detected in Year 1 of monitoring, the City shall develop and implement remedial measures, which may include additional management and revegetation, upon concurrence from the USFWS. Occurrences of problematic invasive, non-native plant species shall be removed from the revegetated area for a minimum of five years.</p> | | | | |
| <p>Mitigation Measure RP-3: Appropriate dust control measures, such as periodically wetting down the work areas, shall be used as necessary for any project-related construction activities that generate dust.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, only if special-status plants are identified during RP-1. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ If special-status plants are identified during RP-1, the Contractor is responsible for implementing the measure. | <p>If special-status plants are identified during RP-1, implement appropriate dust control measures during construction activities.</p> | |
| <p>Mitigation Measure RP-4: The spread or introduction of problematic invasive exotic plant species shall be avoided to the extent practicable. All heavy equipment shall be thoroughly inspected and cleaned of invasive plants prior to entrance to the work site. When practicable, noxious and invasive plants in the project areas shall be removed.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, only if special-status plants are identified during RP-1. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into grading plans and contract specifications and for ensuring compliance during construction. ▪ If special-status plants are identified during RP-1, the Contractor is responsible for implementing the measure. | <p>If special-status plants are identified during RP-1, implement these measures during construction activities.</p> | |
| <p>Mitigation Measure RP-5: Prior to any on-site work in areas where special-status plant species may occur, an agency-approved biologist shall conduct a tailgate training session in which all construction personnel shall receive training regarding measures that are to be implemented to avoid environmental impacts. This training shall include a presentation of the potential for sensitive species to occur at the alignment and measures to</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, only if special-status plants are identified during | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ If special-status plants are identified during RP-1, a qualified biologist (approved by the City) is | <p>If special-status plants are identified during RP-1, conduct a training session prior to construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| protect habitat, including aquatic habitat, and avoid impacts to the species. All personnel working on the alignment shall receive this training, and shall sign a sign-in sheet showing they received the training. | RP-1. | responsible for conducting training sessions. | | |
| Mitigation Measure OTB-1: Preconstruction Survey: A preconstruction survey for the Ohlone tiger beetle shall be conducted by a qualified entomologist within suitable grassland habitat during its active flight period (January 15 to May 30). If individual beetles are identified during the survey, mitigation measures shall be implemented according to OTB-2 through OTB-9 below. If individual beetles are not identified during the survey, no additional mitigation measures will need to be implemented. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | SCWD and a qualified biologist are responsible for implementing the measure. | Prior to construction activities. | |
| Mitigation Measure OTB-2: Locate Project Within Previously Disturbed Areas: To the extent practical, new habitat disturbance shall be minimized by locating components of this project either within the footprint of or adjacent to previously disturbed areas (such as the existing pipeline alignment or roads) or paved areas. Micro-siting of the new pipeline within the project alignment shall be utilized to the extent practical to avoid impacts to active Ohlone tiger beetle larval burrows that are encountered. Alternatively, the City may explore new technologies that would minimize or avoid new ground disturbance. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of project design, if species is discovered during OTB-1. | SCWD is responsible for incorporating measure into project design, if species is discovered during OTB-1. | Prior to construction activities, if species is discovered during OTB-1 | |
| Mitigation Measure OTB-3: Educational Awareness Training Session for All Construction Workers: Prior to the start of any construction-related activities, a USFWS-approved entomologist shall conduct a training session for all construction personnel. This training shall include a description of the Ohlone tiger beetle life stages that might be encountered by workers, information about its natural history and habitat, and measures to be implemented to avoid and minimize impacts to the beetle and its habitat during all work activities. The training shall also include a discussion of why sensitive habitat areas are fenced and procedures workers will follow if any Ohlone tiger beetle life stages are encountered. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, if species is discovered during OTB-1.. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. ▪ A qualified biologist (approved by the City) is responsible for conducting training sessions. | Prior to construction activities, if species is discovered during OTB-1. | |
| Mitigation Measure OTB-4: Delineate Boundaries of the Impact | <ul style="list-style-type: none"> ▪ Include measure as | <ul style="list-style-type: none"> ▪ SCWD and qualified biologist are | Conduct monitoring | |

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| <p>Area: In portions of the project located on Watsonville loams occupied by the Ohlone tiger beetle, temporary fencing and signs shall be erected before any vegetation clearing or ground disturbing (i.e., excavation, trenching, grading, etc.) activities occur to clearly delineate the boundaries of the project's impact area. Warning signs shall be posted on the temporary fencing to alert equipment operators and other construction workers not to proceed beyond the fence. Protective fencing shall remain in place until all construction and revegetation activities have been completed. Signs shall include the following language: "NOTICE: SENSITIVE HABITAT AREA. DO NOT ENTER."</p> | <p>Condition of Approval.</p> <ul style="list-style-type: none"> ▪ Incorporate protective fencing/flagging as part of construction specifications, if species is discovered during OTB-1. | <p>responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1.</p> <ul style="list-style-type: none"> ▪ A qualified biologist (approved by the City) is responsible for periodic site visits prior to and during construction to ensure protection measures are being implemented. | <p>prior to and during construction activities, at the discretion of the qualified biologist, if species is discovered during OTB-1.</p> | |
| <p>Mitigation Measure OTB-5: Identify Locations for Refueling, Worker Parking, and Staging Areas Outside of Sensitive Habitat: Whenever possible, locations for refueling, maintenance, and staging of equipment and vehicles shall be situated outside of sensitive habitat areas. Similarly, worker's vehicles shall be parked in designated areas outside of sensitive habitat areas. The City shall ensure that contamination of sensitive habitat does not occur during such operations, including accidental spills. All workers shall be informed of the appropriate procedures to prevent spills and response measures should an accidental spill occur.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate protective measures as part of construction specifications, if species is discovered during OTB-1. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. ▪ SCWD is responsible for periodic monitoring of the construction area during construction to ensure protection measures are being implemented. | <p>Conduct monitoring prior to and during construction activities, at the discretion of the qualified biologist, if species is discovered during OTB-1.</p> | |
| <p>Mitigation Measure OTB-6: Relocate Observed Life Stages of Ohlone Tiger Beetles: To avoid the need to relocate adult Ohlone tiger beetles, pipeline construction activities in areas occupied by the species shall not occur during the flight season (January 15 to May 30), unless monitoring surveys indicate that adults are no longer active. If avoidance during the flight season is not practicable, a pre-construction survey shall be performed by a USFWS-approved entomologist to salvage and relocate any larvae and other life stages of the Ohlone tiger beetle. The approved monitor shall remain onsite during construction activities in occupied habitat to salvage and relocate any Ohlone tiger</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate protective measures as part of construction specifications, if species is discovered during OTB-1. | <ul style="list-style-type: none"> ▪ SCWD and qualified biologist are responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. ▪ A qualified biologist (approved by the City) is responsible for conducting the preconstruction survey, monitoring the site during | <p>Prior to and during construction activities, if species is discovered during OTB-1.</p> | |

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| <p>beetle encountered during construction. If a larva is found in an earthen tunnel, a new tunnel of the same depth shall be created outside of the impact area and the larva placed in it. If suitable habitat is not present adjacent to the impact area, salvaged tiger beetles shall be relocated, subject to USFWS approval, to Pogonip Park in an attempt to reestablish the beetle at this formerly occupied location. The salvaging and relocating of Ohlone tiger beetles will be authorized under Section 7 of the federal Endangered Species Act, which is expected to be authorized under the Biological Opinion issued through the Section 404 permit from the Corps.</p> | | <p>construction activities (if needed) and relocating individuals (if needed).</p> | | |
| <p>Mitigation Measure OTB-7: Dust Control: Dust can clog the spiracles of adult beetles and larvae, the latter which are active throughout much of the year. Appropriate dust control measures, such as periodically wetting down the work areas, shall be used as necessary for any project-related activities that generate dust. Care will need to be exercised to avoid saturating areas supporting life stages of the Ohlone tiger beetle.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, if species is discovered during OTB-1. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. ▪ The Contractor is responsible for implementing the measure. | <p>During construction activities, if species is discovered during OTB-1.</p> | |
| <p>Mitigation Measure OTB-8: Revegetation of Coastal Terrace Prairie Habitat: Ohlone tiger beetle adults and larvae prefer patches of bare to sparsely vegetated soil in this grassland habitat. Revegetation of disturbed portions of the project area at locations known to support the Ohlone tiger beetle shall use only grasses and forbs indigenous to the coastal terrace prairie habitat. Also, weed control shall be part of the revegetation activities. Dense ground covers, weed matting, aggregate, and mulch can degrade habitat conditions and shall not be used.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure, if species is discovered during OTB-1. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. ▪ The Contractor is responsible for implementing the measure. | <p>Following construction activities, if species is discovered during OTB-1.</p> | |
| <p>Mitigation Measure OTB-9: Trench Backfilling: All excavated soil shall be retained and used to refill the trench after installation of the new pipeline. To maintain the pre-construction soil profile, soil from the bottom of the trench shall be returned to the trench's bottom. Similarly, top soil shall be redeposited as top soil. No off-site soils or other materials shall be utilized to refill the trench.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications, if species is discovered during | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction, if species is discovered during OTB-1. | <p>During construction activities, if species is discovered during OTB-1.</p> | |

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| | OTB-1. | <ul style="list-style-type: none"> ▪ The Contractor is responsible for implementing the measure. | | |
| <p>Mitigation Measure FISH-1: All refueling, maintenance, and staging of equipment and vehicles shall occur at least 65 feet from any riparian habitat or water body. The City shall ensure contamination of habitat does not occur during such operations. Prior to the onset of work, the City shall ensure that the contractor has prepared a plan to allow a 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.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | During construction activities. | |
| <p>Mitigation Measure FISH-2: The City shall submit the name(s) and credentials of biologists who would conduct activities specified in the following measures at least 30 days prior to construction to the USFWS, NMFS, and CDFW. No project activities shall begin until the City receives approval from the agencies that the biologist(s) is qualified to conduct the work.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for implementing the measure. | Prior to construction activities. | |
| <p>Mitigation Measure FISH-3: Prior to any on-site work where special-status fish species may occur, an agency-approved biologist shall conduct a tailgate training session in which all construction personnel shall receive training regarding measures that are to be implemented to avoid impacts to special-status fish and associated aquatic habitats. This training shall include a presentation of the potential for the designated species to occur at the alignment and measures to protect habitat, including aquatic habitat, and to avoid impacts to the species. All personnel working on the alignment shall receive this training, and shall sign a sign-in sheet showing they received the training.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for conducting training sessions. | Prior to construction activities. | |
| <p>Mitigation Measure FISH-4: Each morning before work begins at Majors Creek and Baldwin Creek, an agency-approved biologist shall survey the work site and habitat immediately surrounding the work site for conditions that could impact steelhead, Coho salmon,</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by | Prior to construction activities. | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>or tidewater goby and shall remain on-site whenever work is occurring in these locations. No work shall be allowed to begin each morning until the monitor has inspected the work site in these locations.</p> | | <p>the City) is responsible for inspecting the work site.</p> | | |
| <p>Mitigation Measure FISH-5: To protect water quality, water pumped from construction areas shall be discharged into a basin created out of straw bales lined with filter fabric.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure FISH-6: To reduce the potential for erosion after work is completed, disturbed areas within the alignment shall be compacted and revegetated with an appropriate assemblage of native riparian, wetland, and upland vegetation suitable for the area. Planted material shall include native seed mixes, pole cuttings, or container stock as appropriate. All seed and plant sources shall be approved by the California Department of Parks and Recreation Senior Environmental Scientist.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | <p>Following construction activities.</p> | |
| <p>Mitigation Measure FISH-7: Stream contours shall be returned to the original condition at the end of project activities, unless consultation with the USFWS, NMFS, and CDFW has determined that it is not beneficial to the species or feasible.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | <p>Following construction activities.</p> | |
| <p>Mitigation Measure FISH-8: To control erosion during and after project implementation, the applicant shall implement best management practices, including:</p> <ul style="list-style-type: none"> • Install straw wattles/silt fencing to break up and filter surface runoff. • Install rice straw, jute netting, or native duff to cover bare soil after work is completed except in Ohlone tiger beetle (coastal | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | <p>During and following construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>terrace prairie) habitat. Avoid use of plastic mesh netting at all sites, as this can entrap native animals such as snakes.</p> <ul style="list-style-type: none"> • Install exclusion fencing to prevent heavy equipment from entering muddy/unstable areas. • Install rolling dips and revegetation on accessways utilized for repairs. • Install energy dissipators on pump/dewatering equipment outlets. • Revegetate with site-specific native materials, where appropriate. • Conduct activities outside of the channel whenever feasible by timing work to the low flow season or by utilizing equipment or methods that do not require access in the channel. • Conduct instream activities in Majors and Baldwin creeks (if necessary) during the low flow season (June 15 through October 15 depending on the weather conditions) unless that conflicts with seasonal restrictions in other species-specific measures presented elsewhere in this report. • Conduct instream activities in Little Baldwin Creek, Old Dairy Gulch, Lombardi Gulch, and un-named streams during the low flow season between April 1 and November 1 (depending on the weather conditions) unless these dates conflict with seasonal restrictions in other species-specific measures presented elsewhere in this report. • Avoid disturbance of retained riparian/wetland vegetation where practicable. • Utilize "floating" platforms for mobilization of heavy equipment | | | | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>in saturated soil conditions, as appropriate.</p> <ul style="list-style-type: none"> • Repair by high-lining high-density polyethylene pipeline to ensure longevity of pipeline repairs and to avoid site disturbance/unnecessary excavation and subsequent erosion impacts. Where placing pipeline in trench is not feasible because of topographic features, the pipeline shall be elevated on piers above ground, as opposed to placement directly on the ground, to avoid potential for creating a barrier to movement/habitat use by species. • Limit removal of riparian vegetation to pruning/trimming where practicable. • Minimize excavation in the active stream channel to that which was historically permitted. • Isolate channels from flowing water through temporary bypass before beginning work (i.e. aquadam, coffer dam, etc.). • Store construction and erosion control materials outside of the stream channel and cover loose soils/excavations during non-work hours and wet periods. | | | | |
| <p>Mitigation Measure FISH-9: An agency-approved biologist or biological monitor shall remove from within the proposed project alignment in or near creeks and drainages, any individuals of exotic species that are encountered, such as bullfrogs, crayfish, and centrarchid fishes to the extent practicable.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for removing exotic species from the project site. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure FISH-10: Upon locating individuals of federally listed special-status animal species that are dead or injured as a direct result of activities conducted by the City, initial notification shall be made within three working days of its finding</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the | <ul style="list-style-type: none"> ▪ SCWD is responsible for notifying the appropriate agency. | <p>During construction activities.</p> | |

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| <p>to the appropriate responsible agency for the species: Ventura Fish and Wildlife Office at (805) 644-1766; NMFS Southwest Region at (582) 980-4000; and CDFW Bay-Delta Region at (707) 944-5500 if the species is also State-listed. Written notification shall be made within five calendar days and shall include the date, time, and location of the carcass, a photograph, cause of death, if known, and any other pertinent information. If necessary, the City shall work with the applicable agencies to locate contacts for the deposition of dead insects and other species.</p> | <p>mitigation measure.</p> | | | |
| <p>Mitigation Measure FISH-11: Prior to any instream work in the bed and banks of creeks that requires the construction of cofferdams or dewatering of the creek bed, a stream diversion plan shall be prepared by a qualified biologist after consultation with NMFS and CDFW, and per an approved LSAA. The stream diversion plan shall require that: (1) a qualified fisheries biologist be present during the closing and dewatering of all cofferdams; (2) a qualified fisheries biologists collect, handle, and relocate fish in dewatered areas; and (3) all pump intakes are screened according to CDFW and NMFS criteria. Construction specifications shall incorporate the terms of the stream diversion plan.</p> <p>Diversion and routing of the stream channel to a temporary diversion channel to allow construction work in the existing channel shall be supervised by the qualified fisheries biologist after consultation with NMFS and CDFW, consistent with any terms imposed by those two agencies pursuant to their regulatory authorities under the FESA and/or Section 1602 of the California Fish and Game Code. The diversion and routing shall not disrupt the connectivity of the upstream reaches with the lower reaches of the creek. The existing channel shall remain untouched until the temporary diversions are constructed and the erosion control measures are in place. Diversion channels shall be opened from the downstream end first; and only clean washed material shall be used to close existing channels to divert water to temporary</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD and a qualified biologist are responsible for preparation of a stream diversion plan and incorporating measures from the stream diversion plan into the construction specifications. ▪ A qualified biologist (approved by the City) is responsible for monitoring implementation of the stream diversion plan during construction. | <p>Prior to and during construction activities.</p> | |

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| <p>diversion channels. The temporary diversion channel shall be designed to accommodate the flow of expected storm events, and have gradient controls to ensure that diversion channel slopes correspond to the existing channel gradients.</p> | | | | |
| <p>Mitigation Measure FISH-12: This mitigation measure applies to Lombardi Gulch where directional drilling is proposed in order to reduce potential construction impacts in the creek and riparian corridor. Prior to construction, a drilling-fluids management and response plan shall be prepared to address the potential for fluid releases. The plan shall include but not be limited to the following measures:</p> <ul style="list-style-type: none"> • Conducting a pre-construction geologic study to examine the work area to determine soil types, ground conditions, and appropriate construction procedures; • Isolating the work area with siltation fencing so that any fluid leaks are contained within a controlled area; • Maintaining materials and equipment on site to allow for the cleanup of any leak that may occur; • Constantly monitoring the work site by having inspector(s) maintain constant radio contact with equipment operators; • If a fluid leak does occur, the contractor shall stop work immediately and assess the nature of the leak. Remedial actions shall be implemented and may include spot cleanup with adsorbent materials, or sub-containment of a localized area for the duration of the work. • Once construction is complete, the site shall be restored to existing conditions. <p>The City shall include the requirement for a drilling fluids management and response plan in construction specifications and</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for ensuring that a drilling fluids management and response plan is prepared and implemented. ▪ The requirement for such a plan will be incorporated into contract specifications by the SCWD. ▪ The Contractor is responsible for implementing the measure and the drilling-fluids management and response plan. | <p>Prior to and during construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| bid document for the construction contractor, and shall ensure its implementation during construction. | | | | |
| Mitigation Measure FISH-13: Required clean-up and remediation materials shall be stored and available at each drilling site for immediate containment and clean-up response. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | During construction activities. | |
| Mitigation Measure CRLF-1: The City shall submit the name(s) and credentials of biologists who would conduct activities specified in the following measures at least 30 days prior to construction to the USFWS and CDFW. No project activities shall begin until the City receives approval from the agencies that the biologist(s) is qualified to conduct the work. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for implementing the measure. | Prior to construction activities. | |
| Mitigation Measure CRLF-2: An agency-approved biologist shall conduct a pre-construction California red-legged frog survey of each work area of the alignment within 48 hours prior to the onset of activities. If California red-legged frogs, tadpoles, or eggs are found, the approved biologist shall determine the closest appropriate relocation site. The approved biologist shall be allowed sufficient time to move them from the alignment before work activities begin. Only agency-approved biologists shall participate in activities associated with the capture, handling, and moving of California red-legged frogs. The handling of California red-legged frogs will be authorized under Section 7 of the federal Endangered Species Act, which is expected to be authorized under the Biological Opinion issued through the Section 404 permit from the Corps. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into the construction specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for conducting the survey and relocating individual species, as needed. | Prior to and during construction activities. | |
| Mitigation Measure CRLF-3: Before any activities begin on a project, an agency-approved biologist shall conduct a training session for all construction personnel. At a minimum, the training shall include a description of the California red-legged frog and its | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. | Prior to construction activities, as specified in the measure. | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>habitat, the importance of the California red-legged frog and its habitat, general measures that are being implemented to protect the California red-legged frog as they relate to the project, and the boundaries within which the project may be accomplished. Brochures, books, and briefings may be used in the training session, provided that a qualified person is on hand to answer any questions.</p> | <p>specifications.</p> | <ul style="list-style-type: none"> ▪ A qualified biologist (approved by the City) is responsible for conducting training sessions. | | |
| <p>Mitigation Measure CRLF-4: An agency-approved biologist shall be present at the proposed project alignment until such time as all removal of California red-legged frogs, instruction of workers, and disturbance of core aquatic and riparian habitat areas and establishment of a 100-foot buffer has been completed. After this time and in agricultural and upland areas more than 100 feet from of core habitat areas, the contractor or City shall designate a person to monitor on-site compliance with all mitigation measures and any future staff training. The agency-approved biologist shall ensure that this individual receives training outlined in measure CRLF-3 above and in the identification of California red-legged frogs. The monitor and the agency-approved biologist shall have the authority to stop work if California red-legged frogs are in harm's way.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. A qualified biologist (approved by the City) is responsible for monitoring compliance with mitigation. | <p>Prior to and during construction activities.</p> | |
| <p>Mitigation Measure CRLF-5: The number of access routes, number and size of staging areas, and the total area of the activity shall be limited to the minimum necessary to achieve the project goal. Routes and boundaries shall be clearly demarcated, and these areas shall be outside of riparian and wetland areas to the extent practicable. Where impacts occur in these staging areas and access routes, restoration shall occur as identified in the general BMP measures above.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating this measure into the project design and contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the measure. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure CRLF-6: In core riparian and aquatic habitats, work activities shall be completed between April 1 and November 1. The City shall coordinate with the USFWS on a case-by-case basis prior to conducting such activities, outside of this time period.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. A qualified biologist (approved by the | <p>Prior to and during construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>In uplands, ground-disturbance, mechanical clearing of vegetation, and associated work activities shall be conducted between June 1 and November 1 or until the first fall rain that produces 0.25 inch of rainfall, unless preconstruction surveys have been conducted and California red-legged frogs are shown to be absent from the site and the site boundary is fenced to preclude California red-legged frogs from moving onto the site. Alternatively, an agency-approved biological monitor shall be present during all active construction activities to survey and clear the construction site continuously as pipeline construction progresses during the wet season.</p> | | <p>City) is responsible for monitoring compliance with mitigation.</p> | | |
| <p>Mitigation Measure CRLF-7: If the alignment is to be temporarily dewatered by pumping, intakes shall be completely screened with wire mesh not larger than 5 millimeters to prevent California red-legged frogs from entering the pump system. Water shall be released or pumped downstream at an appropriate rate to maintain downstream flows during construction. Upon completion of construction activities, any barriers to flow shall be removed in a manner that would allow flow to resume with the least disturbance to the substrate.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure CRLF-8: The Declining Amphibian Populations Task Force’s Fieldwork Code of Practice shall be followed to minimize the possible spread of chytrid fungus or other amphibian pathogens and parasites. This measure is applicable to any construction personnel and equipment as well as biological monitors and shall require equipment and personal gear such as work boots that come in contact with water in any waterway be disinfected prior to use in another waterway. Compliance with this measure shall require establishing decontamination procedures and stations at each creek area.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure CRLF-9: During project activities, all trash that may attract predators shall be properly contained, removed from the work site, and disposed of regularly. Following</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and ensuring | <p>During construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>construction, all trash and construction debris shall be removed from work areas.</p> | <p>part of construction specifications.</p> | <p>compliance during construction.</p> <ul style="list-style-type: none"> ▪ The Contractor is responsible for implementing this measure. | | |
| <p>Mitigation Measure CRLF-10: Prior to the commencement of work, the limits of the work area shall be clearly marked with orange construction fencing to prevent workers from impacting habitat outside the work area. No work shall occur outside the designated marked work area.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure CRLF-11: Each morning before work begins, a qualified monitor, as defined in CRLF-4 above, shall survey the work site and habitat immediately surrounding the work site for conditions that could impact red-legged frogs and other special-status species, and shall remain on-site whenever work is occurring. No work shall be allowed to begin each morning until the monitor has inspected the work site.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for inspecting the work site. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure CRLF-12: Upon locating individuals of California red-legged frogs (or other special-status species) that are dead or injured as a direct result of activities conducted by the City, initial notification shall be made to the Ventura Fish and Wildlife Office at (805) 644-1766 within three working days of its finding. Written notification shall be made within five calendar days and shall include the date, time, and location of the carcass, a photograph, cause of death, if known, and any other pertinent information. Written notification shall be sent to the Ventura Fish and Wildlife Office at 2493 Portola Road Suite B, Ventura, California 93003. Dead California red-legged frogs may be placed with the California Academy of Sciences. If necessary, the City shall work with the USFWS to locate contacts for the deposition of dead insects and other species.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for notifying the appropriate agency. | <p>During construction activities.</p> | |
| <p>Mitigation Measure WPT-1: The City shall submit at least 30 days prior to construction the name(s) and credentials of biologists who would conduct activities specified in the following measures</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the | <ul style="list-style-type: none"> ▪ SCWD is responsible for implementing the measure. | <p>Prior to construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| to the CDFW for approval. No project activities shall begin until the City has received approval from the CDFW that the biologist(s) is qualified to conduct the work. | mitigation measure. | | | |
| Mitigation Measure WPT-2: An agency-approved biologist shall survey the alignment 48 hours prior to the onset of activities. If western pond turtle adults, juveniles, or eggs are found, the approved biologist shall determine the closest appropriate relocation site. The approved biologist shall be allowed sufficient time to move them from the alignment before work activities begin. Only agency-approved biologists shall participate in activities associated with the capture, handling, and moving of western pond turtles. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for conducting the survey and relocating individuals, as needed. | Prior to construction activities, as specified in the measure. | |
| Mitigation Measure WPT-3: Before any activities begin on a project, an agency-approved biologist shall conduct a training session for all construction personnel. At a minimum, the training shall include a description of the western pond turtle and its habitat, the importance of the western pond turtle and its habitat, general measures that are being implemented to conserve the western pond turtle as they relate to the project, and the boundaries within which the project may be accomplished. Brochures, books, and briefings may be used in the training session, provided that a qualified person is on hand to answer any questions. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist (approved by the City) is responsible for conducting training sessions. | Prior to construction activities. | |
| Mitigation Measure WPT-4: An agency-approved biologist shall be present at the alignment until such time as all removal of western pond turtles, instruction of workers, and disturbance of habitat have been completed. After this time, the contractor or City shall designate a person to monitor on-site compliance with all mitigation measures. The agency-approved biologist shall ensure that this individual receives training outlined in measure WPT-3 and in the identification of the western pond turtle. The monitor and the agency-approved biologist shall have the authority to stop work if western pond turtles are observed in harm's way. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist and approved biological monitor are responsible for monitoring the site during construction. | During construction activities. | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>Mitigation Measure WPT-5: The number of access routes, number, and size of staging areas, and the total area of the activity shall be limited to the minimum necessary to achieve the project goal. Routes and boundaries shall be clearly demarcated, and these areas shall be outside of riparian and wetland areas to the extent practicable. Where impacts occur in these staging areas and access routes, restoration shall occur as identified in measures FISH-6 and FISH-8.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating this measure into the project design and contract specifications. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure WPT-6: Work activities within or adjacent to creek channels, ponds, and riparian areas shall be completed between April 1 and November 1 to the extent practicable. Should the City need to conduct activities outside this period, the City shall conduct such activities after providing notification to the CDFW.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications, ensuring compliance during construction, and providing notification to CDFW. | <p>Prior to and during construction activities.</p> | |
| <p>Mitigation Measure BO-1: The City shall submit the name(s) and credentials of biologists who would conduct activities specified in the following measures at least 30 days prior to construction to the CDFW for approval. No project activities shall begin until the City has received approval from CDFW that the biologist(s) is qualified to conduct the work.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for implementing the measure. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure BO-2: No more than 14 days prior to any ground disturbing activities, a qualified biologist shall conduct a protocol-level survey for burrowing owls. If no owls are found during this first survey, a final survey shall be conducted within 24 hours prior to ground disturbance to confirm that burrowing owls are still absent. If ground disturbing activities are delayed or suspended for more than 14 days after the initial survey, the alignment shall be resurveyed (including the final survey within 24 hours of disturbance). All surveys shall be conducted in accordance with CDFW guidelines (CDFG 2012).</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist is responsible for conducting surveys. | <p>Prior to construction activities.</p> | |
| <p>Mitigation Measure BO-3: If burrowing owls are found within the alignment during the surveys, 250-foot wide breeding season buffers and 160-foot wide non-breeding season buffers shall be established. If the surveys identify breeding activity, no</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. | <p>Prior to and during construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>construction-related activity (e.g., site grading, staking, surveying, any use of construction equipment) shall occur in the exclusion zone during the breeding season or until the young have fledged. Standard construction buffer widths may be reduced in accordance with the following requirements:</p> <ul style="list-style-type: none"> • A site-specific analysis prepared by an Approved Biologist indicates that the nesting pair(s) or wintering owl(s) would not be adversely affected by construction activities. The County and CDFW must approve this analysis in writing before construction can proceed. • Monitoring by an Approved Biologist is conducted for a sufficient time (during all construction activities for a minimum of 10 consecutive days following the initiation of construction), the nesting pair does not exhibit adverse reactions to construction activities (e.g., changes in behavioral patterns, reactions to noise), and the burrows are not in danger of collapse due to equipment traffic. • Monitoring is continued at least once a week through the nesting/wintering cycle at that site, and no change in behavior by the owls is observed. This longer-term monitoring may be reduced to a minimum of 2 hours in the morning and 2 hours in the afternoon during construction activities; however, additional and more frequent monitoring shall be required if any adverse reactions are noted. <p>Where avoidance is not feasible during the non-breeding season, a site-specific exclusion plan (i.e., a plan that considers the type and extent of the proposed activity, the duration and timing of the activity, the sensitivity and habituation of the owls, and the dissimilarity of the proposed activity with background activities) may be implemented to encourage owls to move away from the work area prior to construction and to minimize the potential to</p> | <p>specifications.</p> <ul style="list-style-type: none"> • Measure is only required if BO-2 identifies burrowing owls. | <ul style="list-style-type: none"> • If BO-2 identifies burrowing owls, a qualified biologist is responsible for delineating buffer areas, monitoring buffers during construction, and preparing a site-specific exclusion plan. | | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| affect the reproductive success of the owls. The exclusion plan shall be subject to CDFW approval and monitoring requirements. | | | | |
| <p>Mitigation Measure NB-1: The project shall avoid vegetation removal during the bird nesting season (February 1 through August 31), to the extent feasible. For construction activities during the nesting season, a qualified biologist shall conduct a preconstruction survey of the alignment within 14 days of the start of construction activities. All trees, shrubs, or other suitable nesting habitat within 250 feet of the project alignment shall be searched for nests during the preconstruction survey. If the survey indicates the presence of nesting birds, protective buffer zones shall be established around the nests as follows: for raptor nests, the size of the buffer zone should be a 250-foot radius centered on the nest; for other birds, the size of the buffer zone should be a 50-foot radius centered on the nest. In some cases, these buffers may be increased or decreased depending on the bird species and the level of disturbance that will occur near the nest. Changes to the buffer shall be made by the project biologist in consultation with CDFW.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist is responsible for conducting the survey, and establishing and monitoring buffer zones if active nests are found. | <p>Prior to and during construction activities.</p> | |
| <p>Mitigation Measure RIP-1: Above ground construction activities in riparian areas shall be limited to April 15 to October 15 except where work windows are more restricted based on special-status species considerations.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure RIP-2: The City shall prepare and implement a plan to re-establish riparian habitat within the 800 linear feet abandoned pipeline segments where above-grade pipe is removed and work areas within the proposed project alignment that extend beyond required maintenance access areas. All native, woody vegetation greater than 1 inch in diameter that is removed as a result of the above activities shall be replaced by</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to, during, and immediately after the completion of construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>establishing native woody vegetation at a 3:1 ratio. This ratio represents the number of native trees and shrubs that shall become established in the riparian mitigation area through direct planting and/or natural recruitment by monitoring year 5. The riparian habitat restoration plan shall be approved by the California Department of Parks and Recreation Senior Environmental Scientist prior to implementation.</p> | | | | |
| <p>Mitigation Measure S/TP-1: Identify locations for refueling, worker parking, and staging areas in designated areas outside of sensitive habitat whenever possible. The City shall ensure that contamination of sensitive habitat does not occur during such operations, including accidental spills. All workers shall be informed of the appropriate procedures to prevent spills and response measures should an accidental spill occur.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |
| <p>Mitigation Measure S/TP-2: Revegetation of coastal scrub and coastal terrace prairie habitat: revegetation of disturbed portions of the project alignment within these habitat areas shall use only grasses and forbs indigenous to these habitats. Also, weed control shall be part of the revegetation activities. Dense ground covers, weed matting, aggregate, and mulch can degrade habitat conditions and shall not be used. The California Department of Parks and Recreation Senior Environmental Scientist shall approve the revegetation plan and material list prior to implementation.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance following construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to and following construction activities.</p> | |
| <p>Mitigation Measure S/TP-3: All excavated top soil shall be retained and used to cover the trench after installation of the new pipeline.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance following construction. ▪ The Contractor is responsible for implementing this measure. | <p>During and immediately following the completion of construction activities.</p> | |
| <p>Mitigation Measure WET-1: In perennial streams, construct stream crossings or remove old pipes during the low flow season (approximately June 15 through October 15 depending on the</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and ensuring | <p>During construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>weather conditions). This measure applies to the following waterways:</p> <ul style="list-style-type: none"> • Little Baldwin Creek, Station 82+00 (Figure 4, Appendix B); • Lombardi Creek, Station 151+00 for pipe removal (Figure 10, Appendix B); and • Old Dairy Creek, Station 212+50, only if the pipeline is replaced through open-trench construction, which is not the preferred option (Figure 15, Appendix B). <p>In ephemeral streams,¹ construct stream crossings when there is no flow. Impacts to some of these streams shall be avoided during construction through reduced-width trenching, if possible, but may occur if avoidance is not possible. The intent of this measure is for it to apply to streams or other regulated tributaries with ephemeral to intermittent flows at the following locations:</p> <ul style="list-style-type: none"> • Drainage, Stations 60+50 (Figure 2, Appendix B); • Drainages, Stations 61+00 to 81+00 (Figures 3-4, Appendix B); • Drainage, north of Stations 34+50 to 38+00 of the railroad alignment (Figure 9, Appendix B); and • Drainage, Stations 153+00 to 166+00 (Figure 11, Appendix B). | <p>part of construction specifications.</p> | <p>compliance during construction.</p> <ul style="list-style-type: none"> • The Contractor is responsible for implementing this measure. | | |
| <p>Mitigation Measure WET-2: All disturbed work areas in wetlands</p> | <ul style="list-style-type: none"> • Include measure as Condition of Approval. | <ul style="list-style-type: none"> • SCWD is responsible for incorporating measure into contract | <p>Following construction</p> | |

¹ The terms ephemeral as used in the PEIR do not appear to reflect Corps regulatory definitions for stream flow. The Corps also defines ephemeral streams as having flowing water only during, and for a short duration after precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round and groundwater is not a source of water for the stream. The term intermittent is a more applicable regulatory description of the stream flow in the non-perennial tributaries as it is likely that groundwater contributes to stream flow.

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>shall be returned to its approximate pre-construction profile to ensure that flow patterns are unaltered. The upland areas in the right-of-way shall also be recontoured to restore original grades, elevations, and flow patterns into wetlands.</p> | <ul style="list-style-type: none"> ▪ Incorporate measure as part of construction specifications. | <p>specifications and for ensuring compliance following construction.</p> <ul style="list-style-type: none"> ▪ The Contractor is responsible for implementing this measure. | <p>activities.</p> | |
| <p>Mitigation Measure WET-3: The City shall prepare and implement a plan to re-establish wetlands or waters that are temporarily impacted during construction. The plan at a minimum shall include provisions for:</p> <ul style="list-style-type: none"> • Salvage, stockpiling and replacement of the top 6 to 10 inches of soil (or the depth 50 percent of more roots for the dominant native wetland species) and reseeded of the disturbed soils with appropriate native grasses and forbs; • Periodic maintenance to remove/control establishment of highly invasive exotic plant species as classified by California Invasive Plant Council (Cal-IPC; http://www.cal-ipc.org/) for a minimum of three years; • A description of performance criteria which shall include at a minimum standards for no net loss of wetland acreage and percent cover for native species and total wetland species based on achieving equal to or greater cover than pre-project conditions; and • A minimum three-year monitoring program to document progress toward achieving appropriate performance criteria. At a minimum, there shall be no loss of wetland acreage. | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance following construction. ▪ The Contractor is responsible for implementing this measure. | <p>Following construction activities.</p> | |
| <p>Mitigation Measure MOV-1: Open trenches shall be limited to the maximum necessary for efficient construction.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>During construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>Mitigation Measure MOV-2: A qualified, agency-approved biologist shall inspect any trench segments left open overnight and remove any stranded animals to safe locations away for the proposed project alignment.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified biologist is responsible for inspecting open trench segments. | <p>During construction activities.</p> | |
| <p>Mitigation Measure TREE-1: The City shall inventory trees for removal and retention within the project work area to document trees which qualify as significant trees under the County's regulations. This information shall be documented in an arborist report. The City shall implement measures from the arborist report to protect trees to be retained in order to minimize inadvertent damage to protected trees and their root zones during construction. Measures shall include, but are not limited to, the following: installation of temporary construction fencing around the dripline of the trees; prohibition of storage or dumping of any kind inside the fenced area; protection of the trees and root zones as specified; and pruning as may be specified in the report. Require that the project arborist be retained throughout the duration of the project to inspect and monitor tree protection zones at regular intervals and to ensure that all arborist recommendations are implemented. Tree removal in sensitive riparian habitat shall be compensated for at a 3:1 ratio through the implementation of Mitigation Measure RIP-2. The City shall otherwise comply with the County's Significant Trees Ordinance as part of the County's coastal development permit process.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for having a qualified arborist prepare an arborist report for the project and for retaining arborist during project construction. SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing the tree protection measures identified in the arborist report and summarized in this measure. | <ul style="list-style-type: none"> ▪ City arborist is responsible for periodic site visits during construction to ensure that tree protection measures are being implemented. ▪ City arborist shall conduct monitoring prior to and during grading and construction activities in proximity to significant trees. | |
| Cultural Resources | | | | |
| <p>Mitigation Measure CULT-1. Prior to construction of the pipeline within the access road that traverses CA-SCR-10, temporary construction fencing shall be erected at the location of the sparse shell deposit identified during the archaeological survey conducted for the project. The fencing shall be erected to restrict construction</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified archaeologist is | <p>Prior to and during construction activities.</p> | |

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| <p>personnel and equipment, and no project staging or equipment storage shall be permitted within the temporary fencing. Furthermore, all construction activities shall be restricted to the existing access road. A qualified archaeologist shall oversee installation of the fencing. The City shall be responsible for ensuring (1) the integrity of the fencing for the duration of construction at this location, and (2) that construction-related activities are restricted to the access road within CA-SCR-10.</p> | | <p>responsible for monitoring installation of fencing.</p> <ul style="list-style-type: none"> The Contractor is responsible for maintaining the integrity of the fencing for the duration of construction at this location and for restricting construction-related activities to the access road within CA-SCR-10. | | |
| <p>Mitigation Measure CULT-2. A qualified archaeological monitor shall be present for construction-related ground disturbance in archaeologically sensitive areas below soil that is demonstrated to be fill. For purposes of the project, these sensitive areas consist of stream terraces for a distance of 300 feet from drainage center lines. Archaeological monitoring may occur outside of these areas, however, if archaeological deposits are unearthed during construction. Archaeological monitoring is not required at areas that are too disturbed to contain intact archaeological deposits.</p> <p>Monitoring shall be guided by an Archaeological Monitoring Plan (AMEP). The AMEP shall include the following elements/protocol: pre-construction assessment; construction worker training; construction monitoring; site recording and evaluation; mitigation planning (e.g., data recovery protocol); curation; guidelines for tribal coordination; and report of findings.</p> <p>If archaeological resources are identified during construction, all construction activities shall be halted in the vicinity, in full compliance with Santa Cruz County Code 16.40.040. Specific discovery procedures under Recommended Mitigation Measure CULT-3 shall be implemented.</p> | <ul style="list-style-type: none"> Include measure as Condition of Approval. Incorporate measure as part of construction specifications. | <ul style="list-style-type: none"> SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. A qualified archaeologist is responsible for monitoring during construction activities. The Contractor is responsible for coordinating and cooperating with the project archaeologist during monitoring, worker training, and any stop-work orders if resources are discovered. | <p>Prior to and during construction activities.</p> | |
| <p>Mitigation Measure CULT-3. Standard inadvertent discovery</p> | <ul style="list-style-type: none"> Include measure as Condition of Approval. | <ul style="list-style-type: none"> SCWD is responsible for incorporating measure into contract | <p>During construction activities.</p> | |

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| <p>procedures, in accordance with County Code 16.40.040, as relevant, shall be implemented as part of all construction contracts. The following steps, which summarize the relevant procedures from the regulations above, shall be taken in the event of any unanticipated discoveries of any artifact or any other object which reasonably appears to be evidence of an archaeological/cultural resource:</p> <ul style="list-style-type: none"> • Immediately cease all further excavation, ground disturbance, and work on the project site; • Place visible stakes completely around the area of discovery not more than ten feet apart forming a circle having a radius of not less than one hundred feet from the point of discovery; provided, that such staking need not take place on adjoining property unless the owner of the adjoining property authorizes such staking; • Notify the County of Santa Cruz planning director; • If any artifacts or remains are discovered, the planning director shall arrange an on-site inspection of the property to be made. The purpose of the inspection shall be to determine whether the discovery is a historical resource or a unique archaeological resource; • Upon determining that the discovery is a historical resource or a unique archaeological resource, no further excavation or development shall take place until a mitigation plan has been prepared and approved, as applicable, and an archaeological site development approval and excavation approval have been obtained, as per relevant per County requirements. The mitigation plan is further described below. • If the find is determined to be either an historical resource or | <ul style="list-style-type: none"> • Implementation actions are outlined in the mitigation measure. | <p>specifications and for ensuring compliance during construction.</p> <ul style="list-style-type: none"> • A qualified archaeologist is responsible for identifying and evaluating the resources per the measure, under the direction of the County of Santa Cruz planning director. • The Contractor is responsible for coordinating and cooperating with the project archaeologist and the planning director during any work stoppage. | | |

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| <p>a unique archaeological resource, the feasibility of avoiding the resource shall be evaluated. If avoidance is determined to be infeasible, a qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan (mitigation plan) for the resource for approval, as per appropriate County Code. The archaeologist shall also conduct appropriate technical analyses, prepare a comprehensive written report and file it with the appropriate information center (NWIC), and provide for the permanent curation of the recovered materials.</p> | | | | |
| <p>Mitigation Measure CULT-4: If paleontological deposits (fossils) are encountered during project subsurface construction, the stipulations outlined in the Santa Cruz County Code Section 16.44.070 (Resources Discovered during Development) shall be implemented, as appropriate. In addition, a qualified paleontologist shall give a preconstruction meeting to appropriate project personnel to discuss procedures to be followed if fossils are identified during the project. Should paleontological resources be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified paleontologist contacted to assess the situation, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. The City shall notify the County Planning Director to arrange for an inspection of the paleontological deposit and make recommendations for additional study in consultation with a qualified paleontologist. The Planning Director shall also make a determination if the existing permit conditions for the project will need to be amended to mitigate impacts to paleontological resources. If effects to paleontological resources are found to be significant, and project activities cannot avoid the resources, adverse effects to paleontological resources shall be mitigated. Mitigation may include monitoring, recording the fossil locality, data recovery and analysis, and a final report.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ A qualified paleontologist is responsible for holding a preconstruction training for construction workers. They are also responsible for evaluating any resources found inadvertently during construction; and identifying appropriate mitigation measures, under the direction of the County of Santa Cruz planning director. ▪ The Contractor is responsible for coordinating and cooperating with the project paleontologist during worker training and with the paleontologist and planning director during any stop-work orders if resources are discovered. | <p>During construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>Educational outreach may also be appropriate. Upon completion of the assessment, a report documenting methods, findings, and recommendations shall be prepared and submitted to the City and County Planning Director for review, and (if paleontological materials are recovered) a paleontological repository shall be identified, such as the University of California Museum of Paleontology</p> | | | | |
| <p>Mitigation Measure CULT-5: In the event of accidental discovery of human remains, the specific protocol and channels of communication outlined by CEQA Guidelines, Section 15064.5(e)(1), and in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the PRC (Chapter 1492, Statutes of 1982, Senate Bill 297), Senate Bill 447 (Chapter 44, Statutes of 1987), and County Code 16.40.040, as relevant, would be followed. Section 7050.5 (c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County Coroner. Per County Code 16.40.040 the County Planning Director would also be notified about the find upon its discovery and by the Coroner after his or her determination. If the Coroner determines that the remains are not subject to his or her authority and if the Coroner recognizes the remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she will contact the NAHC by telephone within 24 hours.</p> <p>The NAHC shall identify the person or persons it believes to be the most likely descended from the deceased Native American. The most likely descendent may make recommendations to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in PRC, Section 5097.98. Such recommendations will be made as part of the mitigation plan prepared under Mitigation Measure CULT-3, in accordance with County Code 16.40.040.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <p>SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction.</p> | <p>During construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| Geology and Soils | | | | |
| <p>Mitigation Measure GEO-1: Consistent with the Santa Cruz County Erosion Control Ordinance (Section 16.22), Best Management Practices shall be implemented to reduce soil erosion and shall be detailed in the Erosion Control Plan that will be prepared as part of the project design process. The Erosion Control Plan shall include, at a minimum the measures required under Santa Cruz County Code Sections 16.22.070, 16.22.080, 16.22.090, and 16.22.100, as applicable. Such measures include:</p> <ul style="list-style-type: none"> • Retain and disperse runoff over vegetated surfaces so that the runoff rate does not exceed the predevelopment level. • Discharge concentrated runoff to non-erodible channels or conduits to the nearest drainage course designated for such purpose. • Detain and filter runoff from disturbed areas via berms, vegetated filter strips, catch basins, or other means to prevent the escape of sediment from the disturbed area. • Prohibit placement of earth or organic materials where it may be directly carried into a stream or other water body. • Minimize land clearing to the amount necessary for access and construction. • Prepare and maintain disturbed surfaces to control erosion and to establish native or naturalized vegetative growth such as: <ul style="list-style-type: none"> ○ Effective temporary planting such as rye grass, barley, or some other fast-germinating seed, and mulching with straw and/or other slope stabilization material; ○ Permanent planting of native or naturalized drought | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to, during, and immediately after the completion of construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>resistant species of shrubs, trees, etc., pursuant to the County's landscape criteria, when the project is completed;</p> <ul style="list-style-type: none"> o Mulching, fertilizing, watering or other methods may be required to establish new vegetation. On slopes less than 20 percent, topsoil shall be stockpiled and reapplied. • No land clearing shall take place prior to approval of the Erosion Control Plan. Vegetation removal between October 15th and April 15 shall not precede subsequent grading or construction activities by more than 15 days. During this period, erosion and sediment control measures shall be in place. • Land clearing of more than one-quarter acre that is not part of a permitted activity shall not take place on slopes greater than 30 percent. • No land clearing operations greater than one acre per year per site or greater than 100 cubic yards may take place between October 15th and April 15th unless authorized by the Planning Director. • When winter operations are permitted, the following measures will be taken: <ul style="list-style-type: none"> o Between October 15th and April 15th, disturbed surface shall be protected by mulching or other effective means of soil protection. o All roads and driveways shall have drainage facilities sufficient to prevent erosion. o Runoff shall be detained and filtered by berms, vegetated filter strips, and/or catch basins. | | | | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <ul style="list-style-type: none"> ○ Erosion control measures shall be in place at the end of each day's work. | | | | |
| Hazards and Hazardous Materials | | | | |
| <p>Mitigation Measure HAZ-1: The City shall prepare a Notice of Intent (NOI) to be submitted to the Central Coast RWQCB, which indicates the intent to comply with the Statewide NPDES General Construction Permit (Order No. 2009-0009-DWQ) prior to construction being initiated. Prior to submittal of the NOI, the City shall prepare a Stormwater Pollution Prevention Plan (SWPPP) to comply with the Statewide NPDES General Construction Permit.</p> <p>The SWPPP shall identify Best Management Practices (BMPs) to prevent or reduce pollution into surface waters. BMPs shall include—but shall not be limited to—construction or installation of sediment retention or erosion control structures such as hay bales, coconut fiber rolls, geofabric, sand bags, and water filters over storm drains; reseeded of exposed soils; stockpiling of topsoil removed during construction; wetting of dry and dusty surfaces to prevent fugitive dust emissions; and clear water diversions to protect channels during trenching/pipeline installation. The SWPPP shall also establish good housekeeping measures such as construction vehicle storage and maintenance, suitable re-fueling locations, handling procedures for hazardous materials, and waste management BMPs, which would minimize the potential for spills. Additional required components of the SWPPP shall include run-on and runoff control measures; inspection, maintenance, and repair of BMPs; and periodic reporting to show compliance with the NPDES Construction General Permit.</p> <p>Depending on the Risk Level assessed to the project discharges, the City shall ensure that project construction complies with Numeric Action Levels for pH and turbidity, which is required for</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to, during, and immediately after the completion of construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>Risk Level 2 and 3 projects. Risk Level 2 and 3 projects also require development of Rain Event Action Plans by qualified individuals, and water quality sampling of non-stormwater discharges and stormwater runoff during qualifying rain events. Exceedance of the Numeric Action Levels shall require mandatory follow-up, including additional evaluation, BMPs, and/or corrective action. Corrective actions will be implemented to bring the discharge to within the Numeric Action Levels. The City shall ensure that a copy of the SWPPP is available at the construction site at all times and that it shall be implemented and amended as necessary to ensure compliance with the NPDES Construction General Permit.</p> <p>Additionally, as required by OSHA, construction personnel handling hazardous materials would be trained to understand the hazards associated with these materials and would be instructed in the proper methods for storing, handling, and using these hazardous materials.</p> | | | | |
| <p>Mitigation Measure HAZ-2: The City shall ensure that construction bid documents and construction contracts require the contractor to test soils to be disposed of to ensure compliance with the disposal requirements of the County's landfill or another regional landfill and compliance with state and federal worker safety regulations. The shallow soil quality within the proposed project's area of potential impact shall be investigated by the contractor prior to transporting and disposing of the soil. Potential sources of contamination include: potential lead contamination of shallow soils along the alignment within 30 feet from the edge of the pavement of Highway 1, and potential pesticide contamination of shallow soils located in areas historically or currently used for agriculture. The soil sampling plan shall be submitted to the City of Santa Cruz for review and approval prior to implementation. Upon completion of sampling, a report summarizing the results of the investigation shall be prepared by the qualified environmental</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to and during construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>professional and shall be submitted to the City of Santa Cruz for review.</p> <p>If contamination is identified by the contractor, construction activities shall be conducted under a project-specific Construction Risk Management Plan (CRMP) to protect construction workers, the general public, and the environment from subsurface hazardous materials. The CRMP shall characterize the soil, delineate areas of known soil contamination, and identify soil (and groundwater, if encountered) management options for excavated soil and dewatered groundwater (if applicable), in compliance with local, state, and federal statutes and regulations.</p> <p>The CRMP shall: 1) provide procedures for evaluating, handling, storing, testing, and disposing of soil and groundwater during project excavation activities; 2) require the preparation of a project-specific Health and Safety Plan that identifies hazardous materials present, if any, describes required health and safety provisions and training for all workers potentially exposed to hazardous materials in accordance with state and federal worker safety regulations, and designates the personnel responsible for Health and Safety Plan implementation. The CRMP shall be submitted to the City of Santa Cruz for review and approval prior to construction activities. Once approved the CRMP shall be implemented during construction of the proposed project.</p> | | | | |
| <p>Mitigation Measure HAZ-3: The City shall ensure that appropriate measures be taken to minimize the risk of fire during construction activities. Specifically, the City shall require that all fire safety regulations cited in the California Public Resources Code be incorporated into construction bid documents and contracts for the project, including regulations that restrict the use of equipment that may produce a spark, flame, or fire; require the use of spark arrestors on construction equipment that use an internal combustion engine; specify requirements for the safe use</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to and during construction activities.</p> | |

| Mitigation Measure | Implementation Actions | Monitoring / Reporting Responsibility | Timing Requirements | Verification of Compliance |
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| <p>of gasoline-powered tools in fire hazard areas; and specify fire suppression equipment that must be provided onsite for various types of work in fire-prone areas. Additionally, special precautions shall be identified and taken to minimize the potential for fires resulting from the welding and fusing processes necessary for linking sections of pipeline together. BMPs shall be implemented during construction to reduce the potential for accidental spills or fires involving the use of hazardous materials.</p> | | | | |
| <p>Hydrology and Water Quality</p> | | | | |
| <p>Mitigation Measure HYDRO-1: The City shall ensure that measures be implemented to minimize the potential for bentonite seeps (frac-outs), including: requiring boring crews to strictly monitor drilling fluid pressures, retaining containment equipment on-site, monitoring waters downstream of the crossing sites to quickly identify any seep, immediately stopping work if a seep into a stream is detected, immediately implementing containment measures, which would be specified in the SWPPP, and adhering to agency reporting requirements. Containment equipment should include staked and floating silt barriers to isolate frac-out locations from flowing water.</p> | <ul style="list-style-type: none"> ▪ Include measure as Condition of Approval. ▪ Implementation actions are outlined in the mitigation measure. | <ul style="list-style-type: none"> ▪ SCWD is responsible for incorporating measure into contract specifications and for ensuring compliance during construction. ▪ The Contractor is responsible for implementing this measure. | <p>Prior to and during construction activities.</p> | |