



Washington Street Sewer Bypass Project

Mitigation Monitoring and Reporting Program

prepared by

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Mitigation Monitoring and Reporting Program

The California Environmental Quality Act (CEQA) requires that a reporting or monitoring program be adopted for the conditions of project approval that are necessary to mitigate or avoid significant effects on the environment (Public Resources Code 21081.6). This mitigation monitoring and reporting program is intended to track and ensure compliance with adopted mitigation measures during the project implementation phase. For each mitigation measure recommended in the Final Initial Study – Mitigated Negative Declaration (IS-MND), specifications are made herein that identify the action required, the monitoring that must occur, and the agency or department responsible for oversight.

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Mitigation Measure/ Condition of Approval	Action Required	Monitoring Timing	Monitoring Frequency	Responsible Agency	Compliance Verification Initial	Compliance Verification Date	Compliance Verification Comments
Air Quality							
AQ-1 Construction Emissions Reduction							
<p>The following measures shall be noted on construction plans and implemented during construction:</p> <ul style="list-style-type: none"> ▪ All mobile off-road equipment (wheeled or tracked) greater than 50 horsepower used during construction activities shall meet the USEPA Tier 4 interim standards. Tier 4 certification can be for the original equipment or equipment that is retrofitted to meet the Tier 4 interim standards. ▪ Alternative Fuel (natural gas, propane, electric, etc.) construction equipment shall be incorporated where available. These requirements shall be incorporated into the contract agreement with the construction contractor. A copy of the equipment's certification or model year specifications shall be available upon request for all equipment on-site. 	<ol style="list-style-type: none"> 1. Confirm the air quality construction emissions reduction measures are included in construction plans and construction contractor agreement. 2. Field verify compliance with construction emissions reduction measures. 	<ol style="list-style-type: none"> 1. Prior to approval of construction contractor agreement 2. During construction activities 	<ol style="list-style-type: none"> 1. Once 2. Periodically 	Castroville Community Services District			
Biological Resources							
BIO-1 Western Pond Turtle Avoidance and Minimization							
<ul style="list-style-type: none"> ▪ A qualified biologist(s) shall conduct a pre-construction survey within 48-hours prior to the onset of work activities, as well as surveys and/or monitoring during initial disturbance of potential western pond turtle habitat. If this species is found and the individuals are likely to be injured or killed by work activities, the approved biologist shall have the authority to 	<ol style="list-style-type: none"> 1. To the extent feasible, schedule construction outside of the typical western pond turtle nesting season (April – August). 2. Retain a qualified biologist to complete 	<ol style="list-style-type: none"> 1. Prior to start of construction 2. Within 48 hours prior to onset of 	<ol style="list-style-type: none"> 1. Once 2. Once 	Castroville Community Services District			

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<p>stop work and sufficient time to move them from the project site before work activities begin or restart. The biologist(s) must relocate any western pond turtle the shortest distance possible to a location that contains suitable habitat that is not likely to be affected by activities associated with the proposed project.</p> <ul style="list-style-type: none"> ▪ If a western pond turtle egg clutch is discovered during pre-construction surveys, the location shall be surrounded with high visibility fencing under the guidance of a qualified biologist. The nest shall be avoided by construction until a qualified biologist determines that the clutch has hatched. If, during construction, a western pond turtle nest is discovered, construction shall cease immediately upon the discovery and the qualified biologist notified. The same procedure described above shall then be applied. ▪ To the extent feasible construction activities shall be scheduled outside of the typical nesting season for western pond turtle (April-August). 	<p>a pre-construction survey for western pond turtle within 48 hours prior to the onset of work activities.</p>	<p>work activities</p>					
	3.	<p>If a western pond turtle egg clutch is discovered during pre-construction surveys, verify fencing and nest avoidance measures are in place prior to start of construction activities.</p>	3.	<p>After pre-construction surveys, prior to start of construction</p>	3.	Once	
	4.	<p>Retain a qualified biologist to conduct surveys and/or monitoring during initial disturbance of potential western pond turtle habitat.</p>	4.	<p>During initial disturbance of potential pond turtle habitat</p>	4.	Once, if needed	
	5.	<p>If western pond turtle is found and the individuals are likely to be injured or killed by work activities, verify the approved biologist has relocated the individuals in accordance with mitigation requirements.</p>	5.	<p>During construction</p>	5.	As needed	

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BIO-2 California Red-legged Frog Avoidance and Minimization							
<ul style="list-style-type: none"> ▪ A qualified biologist(s) shall conduct a pre-construction survey within 48-hours prior to the onset of work activities, as well as surveys and/or monitoring during initial disturbance of potential California red-legged frog habitat or as otherwise directed by the USFWS. The USFWS should be notified if a California red-legged frog, in any of its life stages, is observed within the project site. ▪ Construction crew shall be taught prior to construction to check beneath the staging equipment each morning prior to commencement of daily construction activities. Should California red-legged frog occur within the staging areas, construction activities should be halted until the California red-legged frog vacates the area on its own or until a biologist with USFWS approval relocates the California red-legged frog. ▪ Prior to ground disturbance, a temporary wildlife exclusion barrier should be installed along the limits of disturbance. A qualified biologist should inspect the area prior to barrier installation. The barrier should be designed to prevent California red-legged frog from entering the project area and should remain in place until all development activities have been completed. This barrier should be inspected daily by a qualified biologist 	1. Verify a temporary wildlife exclusion barrier is included in construction plans consistent with mitigation requirements.	1. Prior to approval of construction plans	1. Once	Castroville Community Services District			
	2. Retain a qualified biologist to conduct a pre-construction survey for California red-legged frog within 48 hours prior to the onset of work activities.	2. Within 48 hours prior to the onset of work activities	2. Once				
	3. Teach construction crew prior to construction to check staging equipment for California red-legged frog each morning prior to start of daily construction activities.	3. Prior to start of construction	3. Once				
	4. Retain a qualified biologist to inspect the limits of disturbance prior to installation of the wildlife exclusion barrier.	4. Prior to barrier installation	4. Once				
	5. Retain a qualified biologist, or a qualified biologist's designee, to inspect	5. During construction activities	5. Daily				

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<p>or the qualified biologist’s designee and maintained and repaired as necessary to ensure that it is functional and is not a hazard to California red-legged frogs on the outer side of the barrier.</p> <ul style="list-style-type: none"> ▪ A qualified biologist should be present during all grading and initial ground disturbing activities. Should California red-legged frog be observed within the study area, the USFWS should be notified, and construction should be halted until either the California red-legged frog exits the site on its own or until a biologist with USFWS approval relocates the California red-legged frog. ▪ No work should occur during a rain event (over 0.25 inch). If a rain event occurs, a qualified biologist should inspect the site again prior to resuming work. 	<p>the wildlife exclusion barrier daily to ensure it meets mitigation requirements.</p> <p>6. Retain a qualified biologist to conduct surveys and/or monitoring during all grading and initial ground disturbing activities, or as otherwise directed by the USFWS.</p> <p>7. If California red-legged frog is observed within the project site, halt construction and notify USFWS. Construction activities should be halted until the California red-legged frog vacates the area on its own or until a biologist with USFWS approval relocates the California red-legged frog.</p> <p>8. If a rain event occurs over 0.25 inch, halt construction work until a qualified biologist has</p>	<p>6. During all grading and initial ground disturbing activities, or as otherwise directed by the USFWS</p> <p>7. During construction activities, as needed</p> <p>8. During construction, if a rain event over 0.25 inch occurs</p>	<p>6. Once, or as otherwise directed by the USFWS As needed</p> <p>7. Once</p>				

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	inspected the site and confirmed work can proceed.						
BIO-3 Nesting Bird Avoidance and Minimization Measures							
<p>The following avoidance and minimization measures shall be implemented during project construction activities:</p> <ul style="list-style-type: none"> ▪ Initial site disturbance should occur outside the general avian nesting season (February 1 through September 15), if feasible. ▪ If initial site disturbance occurs in a work area within the general avian nesting season indicated above, a qualified biologist shall conduct a pre-construction nesting bird survey no more than 14 days prior to initial disturbances in the work area. The survey shall include the entire area of disturbance area plus a 50-foot buffer (relevant to non-raptor species) and 300-foot buffer (relevant to raptors) around the site. If active nests are located, all construction work shall be conducted outside a buffer zone from the nest to be determined by the qualified biologist. The buffer should be a minimum of 50 feet for non-raptor bird species and at least 300 feet for raptor species. Larger buffers may be required and/or smaller buffers may be established depending upon the species, status of the nest, and construction activities occurring in the vicinity of the nest. The buffer area(s) shall be closed to all 	<ol style="list-style-type: none"> 1. Schedule initial site disturbance to occur outside general avian nesting season, if feasible 2. If initial site disturbance occurs within general avian nesting season or construction activities in a given work area cease for more than 14 days during the general avian nesting season, retain a qualified biologist to conduct a pre-construction nesting bird survey 3. If active nests are located, implement avoidance buffer requirements 	<ol style="list-style-type: none"> 1. Prior to the start of construction 2. No more than 14 days prior to site disturbance in the work area 3. During construction activities, until the adults and young nesting birds are no longer reliant on the nest site 	<ol style="list-style-type: none"> 1. Once 2. As needed 3. As needed 	Castroville Community Services District			

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construction personnel and equipment until the adults and young are no longer reliant on the nest site. A qualified biologist shall confirm that breeding/nesting is completed and young have fledged the nest prior to removal of the buffer.	4. If active nests are located, field verify compliance with avoidance buffers	4. During construction activities	4. Periodically				
	5. If active nests are located, retain a qualified biologist to confirm when breeding/nesting is completed and young have fledged the nest	5. During construction activities and prior to the removal of avoidance buffers	5. As needed				
<ul style="list-style-type: none"> If construction activities in a given work area cease for more than 14 days, additional surveys shall be conducted for the work area. If active nests are located, the aforementioned buffer zone measures shall be implemented. 							

BIO-4 Implement Sensitive Plant Community and Environmentally Sensitive Habitat Area Avoidance Minimization Measures

The following measures shall be implemented for project construction activities:	1. Implement sensitive habitat avoidance requirements for project construction activities.	1. Prior to and during construction	1. Continuously	Castroville Community Services District			
<ul style="list-style-type: none"> To the extent feasible, all project activities, including access routes, staging areas, stockpile areas, and equipment maintenance, shall be located outside of the limits of mapped sensitive habitats. Sensitive habitat areas shall be mapped by a qualified biologist and clearly shown on construction plans. Bright orange protective fencing (e.g., orange snow fencing) shall be installed at the outermost edge of sensitive habitats and shall not be disturbed except as required for project activities. 	2. Include the specified best management practices for protection of sensitive plant communities in contractor specifications.	2. Prior to issuance of contractor bid specifications	2. Once				
<ul style="list-style-type: none"> Imported soil shall be obtained from a source that is known to be free of invasive plant species. 	3. Field verify compliance with the sensitive habitat avoidance requirements and best management practices.	3. During construction	3. Periodically				

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<ul style="list-style-type: none"> ▪ Minimize removal or disturbance of existing vegetation outside of the footprint of project construction activities. ▪ Limit site access and parking, equipment storage and stationary construction activities to the designated staging areas to the maximum extent feasible. ▪ Prior to staging equipment on-site, clean all equipment caked with mud, soils, or debris from off-site sources and/or previous construction sites to avoid introducing or spreading invasive exotic plant species. When feasible, remove invasive exotic plants from the project site. All equipment used on the premises shall be cleaned prior to leaving the site for other projects. ▪ Position all stationary equipment such as motors, pumps, generators, and/or compressors over drip pans. At the end of each day, move vehicles and equipment as far away as feasible from any water body adjacent to the project site in a level staging area. Position parked equipment also over drip pans or absorbent material. ▪ Refuel and perform all vehicle and/or equipment maintenance off-site at a facility approved for such activities. ▪ To the greatest extent feasible, stabilize all exposed or disturbed areas in the project site. Install erosion control measures as necessary such as silt fences, jute matting, weed-free 							

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straw bales, plywood, straw wattles, and water check bars, and broadcasting weed-free straw wherever silt-laden water has the potential to leave the work site and enter the nearby aquatic features.							
BIO-5 Drainage Restoration							
Temporary impacts to the drainage shall be mitigated by fully restoring the drainage to pre-project conditions, or as required in permits obtained from regulatory agencies.	Restore the drainage impacted by project construction to pre-project conditions, or as required in permits obtained from regulatory agencies.	After completion of work activities in the drainage ditch	Once, or as otherwise required by permitting agencies	Castroville Community Services District			
Cultural Resources							
CR-1 Unanticipated Discovery of Cultural Resources							
In the event that archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 50 feet of the find shall halt and an archaeologist meeting the Secretary of the Interior’s Professional Qualifications Standards for archaeology (National Park Service 1983) shall be contacted immediately to evaluate the find. If the resource is determined by the qualified archaeologist to be prehistoric, then a Native American representative shall also be contacted to participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the	1. If cultural resources are encountered during ground-disturbing activities, halt work in the immediate area and retain a qualified archaeologist immediately to evaluate the find.	1. During ground-disturbing activities, as needed and if archaeological resources are identified	1. As needed	Castroville Community Services District			
	2. If necessary, review and approve additional work for evaluation efforts and to mitigate any	2. During ground-disturbing activities, as needed and if archaeological	2. As needed				

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CRHR and impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of CCR Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource’s significance. The District shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the CHRIS, per CCR Guidelines Section 15126.4(b)(3)(C).	impacts to eligible resources.	resources are identified					

Geology and Soils

GEO-1 Paleontological Resources Monitoring and Mitigation

The following measures shall be implemented during open-cut trench installation in areas mapped as Quaternary marine terrace deposits: Paleontological Worker Environmental Awareness Program. Prior to the start of construction, a Qualified Professional Paleontologist (as defined by SVP [2010]) or their designee shall conduct a paleontological Worker Environmental	1.	Include a standard inadvertent discovery clause in every construction contract form to inform contractors of this requirement.	1.	Prior to issuance of contractor bid specifications	1.	Once	Castroville Community Services District
	2.	Retain a Qualified Paleontologist to	2.	Prior to construction	2.	Once	

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<p>Awareness Program (WEAP) training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff.</p> <p>Unanticipated Discovery of Paleontological Resources. In the event a fossil is discovered during construction of the project, excavations within 50 feet of the find shall be temporarily halted or delayed until the discovery is examined by a Qualified Professional Paleontologist. The project applicant shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. If the find is determined to be significant, the applicant shall retain a Qualified Professional Paleontologist to direct all mitigation measures related to paleontological resources. The Qualified Professional Paleontologist shall design and carry out a data recovery plan consistent with the SVP (2010) standards.</p>	<p>prepare and implement a paleontological Worker Environmental Awareness Program training for construction personnel and for work in areas mapped as Quaternary marine terrace deposits.</p>						
	3.	In the event of a fossil discovery, cease work in the immediate vicinity of the find and direct the Qualified Paleontologist to evaluate the find before restarting construction activity in the area.	3.	During ground-disturbing activities, as needed and if a paleontological resource is identified	3.	As needed	
	4.	If the find is determined to be significant, retain a Qualified Professional Paleontologist to direct all mitigation measures related to paleontological resources, and to	4.	During ground disturbing activities, and if a find is determined to be significant	4.	As needed	

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	design and carry out a data recovery plan.						
Noise							
N-1 Temporary Noise Barriers							
During construction of the eastern end of the sewer line, temporary noise barriers and/or blankets with a minimum height of eight feet shall be constructed along the entire eastern portion of the project site (along approximately 400 feet of the sewer line alignment) where the project alignment borders residential, commercial, and educational uses on Merritt Street and Washington Street. The temporary noise barriers and/or blankets shall be constructed of material with a minimum weight of two pounds per square foot with no gaps or perforations.	1.	Confirm temporary noise barriers are included in construction specs.	1. Prior to approval of construction specs	1. Once	Castroville Community Services District		
	2.	Field verify temporary noise barriers are implemented consistent with mitigation requirements.	2. During construction	2. Periodically			
Tribal Cultural Resources							
TCR-1 Native American Monitoring							
The District shall retain a Native American consultant to conduct Native American monitoring of project-related ground disturbing activities related to the excavation of the receiving and sending pits that are associated with the jack and bore process. Native American monitoring shall be provided by a locally affiliated tribal member. The monitor shall have the authority to halt and redirect work should any Native American archaeological resources be identified during monitoring. If Native American archaeological resources are encountered during ground-disturbing activities, work within 60 feet	1.	Retain a Native American consultant to conduct Native American monitoring of all project-related ground disturbing activities related to excavation of pits for jack and bore process.	1. During ground disturbing activities related to excavation of pits for jack and bore process	1. Continuous ly, unless reduced or halted at the discretion of the Native American monitor	Castroville Community Services District		
	2.	If Native American archaeological resources are encountered during ground disturbing	2. As needed	2. As needed			

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<p>of the find shall halt, and an archaeologist meeting the Secretary of the Interior’s Professional Qualification Standards for archaeology in either prehistoric or historic archaeology shall be contacted immediately to evaluate the find for inclusion in the CRHR and NRHP.</p> <p>Native American monitoring may be reduced to spot-checking or eliminated at the discretion of the monitor, in consultation with the District, as warranted by conditions such as encountering bedrock, sediments being excavated are fill, or negative findings during the first 60 percent of rough grading. If monitoring is reduced to spot-checking, spot-checking shall occur when ground-disturbance moves to a new location within the project site and when ground disturbance would extend to depths not previously reached (unless those depths are within bedrock). The Native American monitor will prepare daily monitoring logs that include a description of construction activities, hours worked, and other applicable observations. In the event Native American archaeological resources are identified, they will be described in the daily monitoring log and the District will be notified.</p>	<p>activities, halt work within 60 feet of the find and contact a qualified archaeologist to evaluate the find.</p> <p>3. If Native American archaeological resources are identified, describe in the daily monitoring log, review and approve monitoring logs.</p>	<p>3. As needed</p>	<p>3. As needed</p>				

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