

Table 6. Mitigation Monitoring and Reporting Plan

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
Mitigation Measures					
Air Quality Mitigation Measure AQ-1					
<p>The following measures shall be implemented to minimize impacts to air quality during construction:</p> <ul style="list-style-type: none"> a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered at least two times per day. b. All haul trucks transporting soil, sand, or other loose material off-site shall be covered. c. Visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. d. All vehicle speeds on unpaved roads shall be limited to 15 mph. e. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. f. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of the California Code of Regulations [CCR]). Clear 	<p>Project Contractors, BAAQMD, and City of Richmond Capital Projects Division</p>	<p>BAAQMD and City of Richmond Capital Projects Division</p>	<p>Capital Projects Division to verify inclusion of BAAQMD BMPs in applicable construction plans and specifications submitted before construction.</p> <p>City of Richmond Capital Projects to inspect site during construction to ensure compliance with project construction plans.</p>	<p>Prior to any earthwork.</p> <p>Field inspections during construction.</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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<i>Air Quality Mitigation Measure AQ-1 (cont.)</i>					
<p>signage shall be provided for construction workers at all access points.</p> <p><i>g.</i> All construction equipment shall be maintained and properly tuned in accordance with manufacturer’s specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.</p> <p><i>h.</i> A publicly visible sign shall be posted with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District’s phone number shall also be visible to ensure compliance with applicable regulations.</p>					
<i>Biology Mitigation Measure BIO-1</i>					
<p>If any construction activities (e.g., grubbing or grading) are scheduled during the bird nesting season (typically defined by CDFW as February 1 to September 1), the City or approved construction contractor shall retain a qualified biologist to conduct a pre-construction survey of the project area and a 100-foot buffer, as access is available, to locate active bird nests, identify measures to protect the nests, and locate any other special status species.</p> <p>The pre-construction survey shall be conducted no more than 14 days prior to the implementation of</p>	<p>Project Contractors shall hire a qualified biologist to conduct pre-construction surveys as described.</p> <p>Project Contractors shall prepare construction</p>	<p>Project Contractors</p> <p>City of Richmond Capital Projects Division and Biologist</p>	<p>Review and approve a qualified biologist. Review pre-construction survey reports. If active nests are found, inspect construction site to confirm buffer zones.</p>	<p>No more than 14 days before start or restart of construction during the months of February through August.</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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<p>construction activities (including staging and equipment storage). Any active nest should not be disturbed until young have fledged or under the direction provided by a qualified biologist. Any special status species shall not be disturbed without the direction of a qualified biologist. If an active nest is found during construction, disturbance shall not occur without direction from a qualified biologist.</p>	<p>plans that incorporate pre-construction surveys and buffer zones. If required, avoidance procedures shall be implemented.</p>				
Biology Mitigation Measure BIO-2					
<p>Prior to construction, the City shall obtain a Section 404 CWA permit from the USACE and a Section 401 Water Quality Certification from the San Francisco Bay RWQCB, and an LSN or LSA from the CDFW. The City shall comply with all mitigation measures identified in the permit approvals.</p>	<p>City of Richmond Capital Projects Division</p>	<p>U.S. Army Corps of Engineers San Francisco Bay RWQCB California Department of Fish and Wildlife</p>	<p>Agencies to review and approve the City of Richmond prepared permit applications.</p>	<p>Review and approval of applicable permits prior to construction.</p>	<p><i>Verified by:</i> <i>Date:</i></p>
Geology Mitigation Measure GEO-1					
<p>The City shall retain a professional qualified paleontologist to review the Paleontological Resource Potential Maps and determine if the project area contains the potential for paleontological resources. The City shall coordinate for a "request for opinion" from a qualified professional paleontologist, state</p>	<p>Project Contractor and qualified Paleontologist</p>	<p>City of Richmond Capital Projects Division</p>	<p>Review and approval of Paleontologist. If resources are encountered, Contractor to verify work is suspended as required, review and approve paleontologist and paleontologist's recommendations.</p>	<p>Prior to and during construction.</p>	<p><i>Verified by:</i> <i>Date:</i></p>

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<p>paleontological clearinghouse, or an accredited institution with an established paleontological repository housing paleontological resources from the region of interest.</p> <p>If the paleontological resource potential of a rock unit cannot be determined from the literature search and specimen records, a field survey by a qualified professional paleontologist will be necessary to determine the fossiliferous potential and the distribution or concentrations of fossils within the extent of the rock units present in a specific project area.</p>		Project Contractor			
<i>Tribal Cultural Resources Mitigation Measure TCR-1</i>					
<p>Conduct a Worker Environmental Awareness Program. The City shall require the contractor to provide a cultural resources and tribal cultural resources sensitivity and awareness training program (Worker Environmental Awareness Program [WEAP]) for all personnel involved in project construction, including field consultants and construction workers, before any project-related construction activities begin. The WEAP shall be developed in coordination with culturally affiliated Native American tribes and a qualified archaeologist, as defined by the Secretary of the Interior's Professional Qualifications Standards for Archeology. The City may invite Native American representatives from interested culturally affiliated Native American tribes to participate.</p> <p>The WEAP shall include relevant information regarding sensitive cultural resources and tribal cultural resources, including applicable regulations, protocols</p>	Project Contractor	City of Richmond Capital Projects Division	Verify attendance and training by all project personnel prior to beginning work onsite.	Prior to construction commencement.	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
<p>for avoidance, and consequences of violating State laws and regulations. The WEAP shall also describe appropriate avoidance and impact minimization measures for resources that could be located at the project area or mitigation site and provide procedures and contact information should workers encounter any potential cultural resources or tribal cultural resources. The WEAP will emphasize the requirement for confidentiality and culturally appropriate treatment of any discovery of significance to Native Americans and will discuss appropriate behaviors and responsive actions, consistent with Native American tribal values.</p>					
<i>Tribal Cultural Resources Mitigation Measure TCR-2</i>					
<p>In the event that cultural resources or tribal cultural resources are discovered during construction, the following avoidance and minimization measures to avoid significant impacts and procedures to evaluate resources will be implemented:</p> <p>If cultural resources or tribal cultural resources (such as structural features, unusual amounts of bone or shell, artifacts, or human remains) are encountered at the project area or mitigation site during construction, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural materials), and the construction contractor shall immediately notify the project's City representative.</p> <p>Avoidance and preservation in place is the preferred manner of mitigating impacts to cultural resources and tribal cultural resources. This will be accomplished, if feasible, by several alternative means, including:</p>	<p>Project Contractor and Archaeologist</p>	<p>Contractor, City of Richmond Capital Projects Division, and Archaeologist</p>	<p>Review and approval of archaeologist. Review and approval of the construction plan that includes archaeological mitigation. Inspect site during construction.</p>	<p>Prior to construction. Field inspections during construction.</p>	<p><i>Verified by:</i> <i>Date:</i></p>

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<p>Recommendations for avoidance of unanticipated cultural resources and tribal cultural resources will be reviewed by the City representative, interested culturally affiliated Native American tribes and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural, and environmental considerations, and the extent to which avoidance is consistent with project objectives. Avoidance and design alternatives may include realignment within the project area to avoid cultural resources or tribal cultural resources, modification of the design to eliminate or reduce impacts to cultural resources or tribal cultural resources, or modification or realignment to avoid highly significant features within a cultural resource or tribal cultural resource.</p> <p>Native American representatives from interested culturally affiliated Native American tribes will be invited to review and comment on these analyses and shall have the opportunity to meet with the City representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.</p> <p>If the discovered cultural resource or tribal cultural resource can be avoided, the construction contractor(s) shall install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts and for the duration of construction, demarking the area as an "Environmentally Sensitive Area." The boundary of a cultural resource or a tribal cultural resource will be determined in consultation with interested culturally</p>					

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<p>affiliated Native American tribes and tribes will be invited to monitor the installation of fencing. Use of temporary and permanent forms of protective fencing will be determined in consultation with Native American representatives from interested culturally affiliated Native American tribes.</p> <p>If a cultural resource or a tribal cultural resource cannot be avoided, each resource shall be evaluated for CRHR eligibility through application of established eligibility criteria (CCR 15064.636), in consultation with consulting Native American tribes, as applicable.</p> <p>If a cultural resource or a tribal cultural resource is determined to be eligible for listing in the CRHR, the City shall avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. The City shall coordinate the investigation of the find with a qualified archaeologist (as described in Mitigation Measure TCR-1) and with interested culturally affiliated Native American tribes that respond to the City’s invitation. As part of the site investigation and resource assessment, the City and the archaeologist shall consult with interested culturally affiliated Native American tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary, and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations shall be documented in the project record. For any recommendations made by interested culturally affiliated Native American tribes</p>					

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<p>that are not implemented, a justification for why the recommendation was not followed shall be provided in the project record.</p> <p>If the City determines that the project may cause a significant impact to a tribal cultural resource, measures to avoid or minimize significant adverse impacts shall be identified in the consultation process to either avoid and preserve resources in place, and treat the resource with culturally appropriate dignity, taking into account the Tribal cultural values and meaning of the resource.</p>					
<i>Tribal Cultural Resources Mitigation Measure TCR-3</i>					
<p>If an inadvertent discovery of human remains is made at any time during project-related construction activities or project planning, the City shall meet the following performance standards prior to implementing or continuing actions such as construction that may result in damage to or destruction of human remains:</p> <p>In accordance with the California Health and Safety Code (HSC), if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the remains and notify the County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (HSC Section 7050.5[b]). If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the HSC Section 7000 (et seq.) regarding</p>	<p>Project Contractor and Archaeologist</p>	<p>Contractor, City of Richmond Capital Projects Division, and Archaeologist</p>	<p>City to verify mitigation measure on construction plans.</p> <p>Inspect site during construction to ensure compliance with project construction plans.</p>	<p>Prior to construction.</p> <p>Field inspections during construction.</p>	<p><i>Verified by:</i></p> <p><i>Date:</i></p>

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<p>the disinterment and removal of non-Native American human remains.</p> <p>If the Coroner determines that the remains are those of a Native American, he or she must contact the NAHC by phone within 24 hours of making that determination (HSC Section 7050[c]). After the Coroner’s findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant, in consultation with the landowner, shall determine the ultimate treatment and disposition of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.</p>					
Conservation Measures Incorporated into Project					
<p>Within 15 calendar days, prior to the onset of activities, the applicant will submit the name(s) and credentials of biologists who will conduct activities specified in the following measures. No earthmoving or other project activities will begin until written approval from the USFWS has been received that the biologist(s) is qualified to conduct the work. The USFWS-approved biologist(s) will be experienced in their respective field of specialization, have permits as required to perform the required work, and have the authority to stop construction activities if situations arise that could be detrimental to listed species.</p>	<p>City of Richmond Capital Projects Division</p>	<p>USFWS</p>	<p>Submit the name(s) and credentials of biologists who will conduct activities specified in the Conservation Measures.</p>	<p>Within 15 calendar days, prior to the onset of construction activities.</p>	<p><i>Verified by:</i> <i>Date:</i></p>
<p>Before any construction activities begin, a USFWS-approved biologist will conduct a training session for all construction personnel. At a minimum, the training will include a description of the AWS and the CRLF and their habitats, the importance of the AWS and the</p>	<p>Project Contractor, USFWS-approved Biologist</p>	<p>City of Richmond Capital Projects</p>	<p>Conduct training session for all construction personnel.</p>	<p>Before construction activities begin.</p>	<p><i>Verified by:</i> <i>Date:</i></p>

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<p>CRLF and their respective habitats, the general measures that are being implemented to conserve the AWS and the CRLF as they relate to the proposed project, the penalties for non-compliance, and the boundaries within which the proposed 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. Construction workers will sign a form stating that they attended the program and understand all protection measures for the AWS and the CRLF.</p>		<p>Division and USFWS</p>	<p>Construction workers sign form confirming attendance and understanding of protection measures for AWS and CRLF.</p>		
<p>Prior to the initiation of excavation, construction, or vehicle operation, the project area will be surveyed by a USFWS-approved biologist to ensure that no AWS or CRLF are present. This survey is not intended to be a protocol-level survey, but rather one designed to verify that no AWS or CRLF are present within the construction area before construction activities begin. Two pre-construction surveys for CRLF and AWS will be conducted by a qualified biologist in and adjacent to the project area. The surveys will be conducted within 48 and 24 hours prior to construction. During the pre-construction surveys, the construction area will be inspected, and the biologist will also inspect areas of San Pablo Creek both upstream and downstream of the area. If any CRLF are found, the USFWS will be contacted, and the USFWS-approved biologist will be allowed sufficient time to move any CRLF from the work site before work activities begin. If any AWS are found, all activities will cease, the USFWS will be immediately contacted, and no other actions will be taken without authorization from the USFWS. Only USFWS-approved biologists will participate in activities associated with the capture, handling, and monitoring</p>	<p>Project Contractor, USFWS-approved Biologist</p>	<p>City of Richmond Capital Projects Division and USFWS</p>	<p>Conduct preconstruction surveys per measure. If any CRLF or AWS are found, all activities will cease, and the USFWS will be immediately contacted. Only approved biologist(s) will participate in activities associated with contact of AWS or CRLF per instructions in measure.</p>	<p>Prior to the initiation of excavation, construction, or vehicle operation; one within 48 hours prior to construction and one within 24 hours prior to construction.</p>	<p><i>Verified by:</i> <i>Date:</i></p>

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of CRLF. Any biologist involved with the surveying/handling will employ sterilization techniques appropriate to avoid the transmission of diseases to and from the site.					
Immediately after the second survey, construction fencing and silt fencing will be installed around the work area to prevent the disturbance of sensitive habitats and the movement of any reptiles or amphibians into the project area. The bottom of the silt fencing will be buried. The USFWS-approved biologist will supervise the installation of the fencing around the work area. Access routes, turn-around and parking areas, and staging areas will be limited to the minimum necessary to achieve the project goal.	Project Contractor, USFWS-approved Biologist	City of Richmond Capital Projects Division and USFWS	City to verify inclusion of condition on construction plans. USFWS biologist to supervise installation of fencing. Inspect site during construction to ensure compliance with measure.	Immediately after second pre-construction survey.	<i>Verified by:</i> <i>Date:</i>
A USFWS-approved biologist will monitor all ground-disturbing construction activities. After ground-disturbing project activities are complete, the USFWS-approved biologist will train an individual to act as the on-site biological monitor. The USFWS-approved biological monitor will have attended the training described above. Both the USFWS-approved biologist and the biological monitor will have the authority to stop and/or redirect project activities to ensure protection of resources and compliance with all environmental permits and conditions of the project. The USFWS-approved biologist or biological monitor will complete a daily log summarizing activities and environmental compliance. The daily log and weekly, monthly, and quarterly summaries will be placed on a file-sharing website that is accessible to regulatory staff at any time.	Project Contractor, USFWS-approved Biologist	City of Richmond Capital Projects Division and USFWS	Biologist and/or Biologist-trained Monitor to monitor construction activities and complete log as prescribed in measure.	During and after ground-disturbing project activities.	<i>Verified by:</i> <i>Date:</i>

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A USFWS-approved biologist or construction monitor will conduct daily construction monitoring, making a thorough inspection of the construction site and fences for the presence of AWS or CRLF. These site inspections will take place each morning before the start of construction activities.	Project Contractor, USFWS-approved Biologist	City of Richmond Capital Projects Division and USFWS	Conduct daily monitoring per measure. City to verify inclusion of condition on construction plans.	Daily before the start of construction activities.	<i>Verified by:</i> <i>Date:</i>
If any AWS or CRLF are found, all activities will cease, the USFWS will be immediately contacted and no other actions will be taken without authorization from the USFWS. Construction will be halted until all AWS or CRLF depart on their own or are removed from the work area by the USFWS-approved biologist. Actions taken to relocate AWS or CRLF will be conducted under the guidance of the USFWS and CDFW. The USFWS-approved biologist may relocate any AWS or CRLF that are in danger of immediate harm from project-related activities to a nearby safe location outside the work area that will remain undisturbed throughout the duration of the project. The USFWS-approved biologist will monitor any CRLF or AWS that has been relocated until it is determined that it is not imperiled by predators or other dangers.	Project Contractor, USFWS-approved Biologist	City of Richmond Capital Projects Division and USFWS	If any AWS or CRLF are found, all activities will cease, the USFWS will be immediately contacted and no other actions will be taken without authorization from the USFWS. USFWS biologist will relocate and monitor per measure.	Ongoing if any AWS or CRLF are found	<i>Verified by:</i> <i>Date:</i>
Construction will take place during daylight hours only.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Daily during construction.	<i>Verified by:</i> <i>Date:</i>
Prior to being brought on-site, all vehicles and machinery will be inspected for fluid leaks. No vehicles or machinery exhibiting signs of leaking fluid will be brought on-site.	Project Contractor	City of Richmond Capital Projects	Inspect vehicles for fluid leaks prior to being brought on-site.	During construction.	<i>Verified by:</i> <i>Date:</i>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
		Division and USFWS	City to verify inclusion of condition on construction plans.		
A fine mesh screen will be used on the intake to the pump used for the upstream cofferdam to ensure that no AWS, CRLF, or other amphibians or reptiles are taken at the pump.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect intake to the pump used for the upstream cofferdam during construction to ensure compliance with measure.	During construction.	<i>Verified by:</i> <i>Date:</i>
Any vegetation to be removed will be hand-cleared. No machinery or vehicles that disturb the ground surface will be allowed in areas in which the ground is not clearly visible.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	During construction.	<i>Verified by:</i> <i>Date:</i>
Construction activities in San Pablo Creek and the associated riparian habitat will be timed to occur during the latter part of the dry season (non-breeding season for CRLF: April 15 to October 15)	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>
All areas disturbed as a result of project-related activities will be re-vegetated with native plant species only.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	During construction.	<i>Verified by:</i> <i>Date:</i>
Erosion control and sediment detention devices (e.g., well-anchored sandbag cofferdams, straw bales, or silt fences) will be incorporated into the proposed project design and implemented at the time of construction. These devices will be in place during construction	Project Contractor	City of Richmond Capital Projects	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	During construction.	<i>Verified by:</i> <i>Date:</i>

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activities, and after if necessary, for the purposes of minimizing fine sediment and sediment/water slurry input to flowing water and of detaining sediment laden water on-site. These devices will be placed at all locations where the likelihood of sediment input exists.		Division and USFWS			
The biological monitor will inspect the performance of the pumps and the sediment control devices at least once each day during construction to ensure that the devices are functioning properly. The pump intake will be inspected to ensure that it does not become clogged, and if necessary, debris will be removed regularly. If an erosion control measure is not functioning effectively, the control measure will be immediately repaired or replaced. Additional controls will be installed as necessary.	USFWS-approved Biologist, Project Contractor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site once daily to ensure erosion and sediment control devices functioning properly. USFWS to report to Project Contractor if control measures need to be repaired or replaced.	At least once each day during construction.	<i>Verified by:</i> <i>Date:</i>
All debris, sediment, rubbish, vegetation, or other material removed from the channel banks, channel bottom, or sediment basins will be disposed of at an approved disposal site. All petroleum products, chemicals, silt, fine soils, and any substance or material deleterious to listed species will not be allowed to pass into, or be placed where it can pass into, the stream channel. There will be no side casting of material into any waterway.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	During construction.	<i>Verified by:</i> <i>Date:</i>
During project activities, all trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas. Construction materials will be managed to minimize the provision of cover for AWS and CRLF by removing all surface construction debris daily except that required for construction.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Daily during construction.	<i>Verified by:</i> <i>Date:</i>

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To mitigate for erosion impacts, best management practices (BMPs) for construction will be implemented during and after construction. These include measures such as installing silt fences, placing rice-straw bales on and directly downstream of exposed soils, and minimizing exposed surfaces.	Project Contractor	City of Richmond Capital Projects Division and USFWS	Inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	During and post-construction.	<i>Verified by:</i> <i>Date:</i>
All fueling and maintenance of vehicles and other equipment and staging areas will occur at least 60 feet from any riparian habitat or water body. The USACE and applicant will ensure contamination of habitat does not occur during such operations. Prior to the onset of work, the USACE will ensure that the applicant will prepare a plan to allow a prompt and effective response to any accidental spills. All workers will be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.	Project Contractor and USACE	City of Richmond Capital Projects Division, USFWS, and USACE	USACE to ensure a spill response plan is developed and implemented. Contractor to educate workers about spill prevention and response per measure.	Prior to and during construction.	<i>Verified by:</i> <i>Date:</i>
The biological monitor will ensure that the spread or introduction of invasive exotic plant species will be avoided to the maximum extent possible. When practicable, invasive exotic plants in the project area will be removed.	USFWS-approved Biological Monitor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site during construction to ensure compliance with measure.	During construction.	<i>Verified by:</i> <i>Date:</i>
To minimize temporary disturbances, all project-related vehicle traffic shall be restricted to established roads, construction areas, and specifically designated access areas. These areas also should be included in pre-construction surveys and, to the maximum extent possible, should be established in locations disturbed by previous activities to prevent further adverse effects.	Project Contractor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>

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Tightly woven fiber netting or similar material shall be used for erosion control or other purposes at the project site to ensure that AWS do not become entangled in the mesh. Coconut coir matting is an acceptable erosion control material. No plastic mono-filament matting shall be used for erosion control.	Project Contractor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>
To avoid entrapment and prevent injury or mortality of listed species resulting from trenching activities, the perimeter of the construction site will be contained with silt fencing or similar material that excludes amphibians and reptiles. Approaches to the edge of the trench will be blocked along El Portal with concrete barriers known as K-rails.	Project Contractor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>
Pipes that are stored on the site will be inspected for trapped animals before the pipe is used in any way. Pipes in or adjacent to trenches left overnight will be capped.	USFWS-approved Biologist	City of Richmond Capital Projects Division and Biologist	USFWS to inspect pipes to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>
All vehicle parking will be restricted to existing roads. Necessary vehicles belonging to the biological monitors and construction supervisors will be parked at the nearest point on existing access roads. A 15 mile-per-hour speed limit on the dirt access road will be imposed for all vehicles during construction activities.	Project Contractor	City of Richmond Capital Projects Division and USFWS	USFWS to inspect site during construction to ensure compliance with measure. City to verify inclusion of condition on construction plans.	Ongoing	<i>Verified by:</i> <i>Date:</i>
A post-construction survey will be conducted the night before the cofferdams are removed to make sure no AWS or CRLF have occupied the temporary pool created upstream of the site. If any AWS or CRLF are present, they will be captured by hand and removed upstream of the pond to prevent them being	Project Contractor, USFWS-approved Biologist	City of Richmond Capital Projects Division and USFWS	USFWS-approved biologist to conduct post-construction survey at cofferdam site to ensure compliance with measure.	The night before the cofferdams are removed.	<i>Verified by:</i> <i>Date:</i>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
potentially stranded when the dams are removed during the daylight hours and the water levels drop.					
Construction Controls Incorporated into Project					
<i>Hydrology and Water Quality</i>					
Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) and monitor the effectiveness of the plan.	Project Contractor	San Francisco Bay Regional Water Quality Control Board City of Richmond Capital Projects Division and Engineering Services Department/ Water Resource Recovery Department	The San Francisco Bay RWQCB to review and approve the SWPPP. City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Review and approval of the SWPPP prior to construction. Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>
Temporary erosion and sediment control BMPs will be used to prevent the transport of earthen materials and other construction waste materials from disturbed land areas, stockpiles, and staging areas during periods of precipitation or runoff (such as silt fence, erosion control fabric, fiber rolls).	Project Contractor	City of Richmond Capital Projects Division and Water Resource	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
		Recovery Department			
Tracking controls (such as designated ingress and egress areas) and designated staging areas outside of drainage areas will be implemented.	Project Contractor	City of Richmond Capital Projects Division and Water Resource Recovery Department	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>
All disturbed areas will be revegetated, including staging with native species only.	Project Contractor	City of Richmond Capital Projects Division and Water Resource Recovery Department	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>
Temporary BMPs will be used to prevent wind erosion and sediment transport of disturbed areas, such as use of water for dust control and covering of stockpiles.	Project Contractor	City of Richmond Capital Projects Division and Water Resource Recovery Department	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
Implement construction BMPs to reduce erosion potential. Such BMPs include, but are not limited to, construction scheduled for dry season; high flow bypass until the system is stabilized; temporary and permanent erosion and sediment controls; prevention of runoff during construction.	Project Contractor	City of Richmond Capital Projects Division	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>
Construction boundary fencing will be installed to limit land disturbance to areas not planned for construction.	Project Contractor	City of Richmond Capital Projects Division	City of Richmond Water Resource Recovery Department to monitor implementation of project BMPs.	Field inspections during construction.	<i>Verified by:</i> <i>Date:</i>
<i>Hazards and Hazardous Materials</i>					
Prepare a Spill Prevention Plan with details of site-specific BMPs to prevent accidental spills from impacting water and land resources. Outline response protocols and information for contacting the San Francisco Bay Regional Water Quality Control Board and other responsible agencies.	Project Contractor	City of Richmond Capital Projects Division	Contractor to prepare Spill Prevention Plan per measure. City of Richmond Capital Projects Division to approve Spill Prevention Plan.	Prior to permit issuance.	<i>Verified by:</i> <i>Date:</i>
Provide spill containment and absorbent materials on-site at all times.	Project Contractor	City of Richmond Capital Projects Division	Field inspections during construction to verify compliance with measure.	During construction.	<i>Verified by:</i> <i>Date:</i>
Remove petroleum products and hazardous waste must be removed from the project area and disposed of at an appropriate location.	Project Contractor	City of Richmond Capital Projects Division	Field inspections during construction to verify compliance with measure.	During construction.	<i>Verified by:</i> <i>Date:</i>

Project Mitigation Measures, Conservation Measures, and Construction Controls	Implemented By	Monitored By	Monitoring and Reporting Action	Monitoring Schedule	Verification of Compliance
<i>Traffic During Construction</i>					
Prepare and submit for review a California Manual on Uniform Traffic Control Devices Traffic/Pedestrian Control Plan for activities within a City right-of-way.	Project Contractor	City of Richmond Engineering Department and City of Richmond Capital Projects Division.	Contractor to prepare Plan. City Richmond Capital Projects Division of to approve Plan.	Prior to issuance of Encroachment Permit	<i>Verified by:</i> <i>Date:</i>