

Appendix C. Environmental Commitments Record

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Environmental Commitments Record

In order to be sure that all of the environmental measures identified in this document are executed at the appropriate times, the following mitigation program (as articulated on the proposed Environmental Commitments Record [ECR] which follows) would be implemented. During project design, avoidance, minimization, and /or mitigation measures will be incorporated into the project's final plans, specifications, and cost estimates, as appropriate. All permits will be obtained prior to implementation of the Project. During construction, environmental and construction/engineering staff will ensure that the commitments contained in this ECR are fulfilled. Following construction and appropriate phases of project delivery, long-term mitigation maintenance and monitoring will take place, as applicable. As the following ECR is a draft, some fields have not been completed, and will be filled out as each of the measures is implemented. Note: Some measures may apply to more than one resource area. Duplicative or redundant measures have not been included in this ECR.

Date: 3/16/2019
Environmental Coordinator: Kathleen Dove

ENVIRONMENTAL COMMITMENTS RECORD
(ECR)

EA and Project No: 0M9700/1213000099
SR 57 Northbound Improvement Project

Task And Brief Description	Responsible Party	Timing / Phase	Nssp Req.	Action Taken To Comply With Task	Task Completed		Remarks	Environmental Compliance	
					Initial	Date		Initial	Date
DESIGN KICK-OFF	Proj Mgmt & Proj Dev	Beginning of Phase 1							
ENVIRONMENTAL PS&E REVIEW	Proj Mgmt & Env	District PS&E Circ							
PRECONSTRUCTION MEETING	Proj Mgmt	Contract Award							
TRANSFER RESIDENT ENGINEER BOOK	Proj Eng	Preconst Meeting							
PREJOB MEETING	Proj Mgmt & Contractor	Const							
ENVIRONMENTAL COMPLIANCE REVIEW	Proj Mgmt & Contractor	Post Const							
DESIGN FEATURES MEMORANDUM	Proj Mgmt & Contractor	Post Const							
Parks and Recreational Facilities									
During the Design and Construction Phases, a Traffic Management Plan (TMP) will be coordinated with Orange County Parks (OC Parks) and Orange County Flood Control District (OCFCD) for temporary construction-related impacts to the Santa Ana River Trail (SART) and bike path. The TMP will address safety for trail and bike path users, during and throughout construction, and will also be coordinated with the cities of Orange and Anaheim.	OCTA	Design/ Construction							
Community Impacts									
Caltrans Standard Specification 5-1.31: Requires that the job site be neatly maintained in areas visible to the public	Contractor	Construction							
Caltrans Standard Specifications Section 7.1.03: Apply a dust palliative for the prevention or alleviation of dust nuisance.	Contractor	Construction							

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Caltrans Standard Specifications Section 5-1.39: Before Contract acceptance, restore damaged work to the same state of completion as before the damage.	Contractor	Construction					
Caltrans Standard Specifications Section 7-1.03: Construction activities must not inconvenience the public or abutting property owners. Schedule and conduct work to avoid unnecessary inconvenience to the public and abutting property owners.							
Caltrans Standard Specifications Section 7-1.04: Do not construct a temporary facility that interferes with the safe passage of traffic. Control dust resulting from the work, inside and outside the right-of-way. Move workers, equipment, and materials without endangering traffic. Whenever your activities create a condition hazardous to the public, furnish, erect and maintain those fences, temporary railing, barricades, lights, signs, and other devices and take any other necessary protective measures to prevent damage or injury to the public. Provide flaggers whenever necessary to ensure that the public is given safe guidance through the work zone.							
PF-LU-1: Caltrans Standard Specifications Section 5-1.39: Before Contract acceptance, restore damaged work to the same state of completion as before the damage.	Contractor	Construction					
PF-LU-2: Caltrans Standard Specifications Section 7-1.03: Construction activities must not inconvenience the public or abutting property owners. Schedule and conduct work to avoid unnecessary inconvenience to the public and abutting property owners.	Contractor	Construction					
PF-LU-3: Caltrans Standard Specifications Section 7-1.04: Do not construct a temporary facility that interferes with the safe passage of traffic. Control dust resulting from the work, inside and outside the right-	Contractor	Construction					

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of-way. Move workers, equipment, and materials without endangering traffic. Whenever your activities create a condition hazardous to the public, furnish, erect and maintain those fences, temporary railing, barricades, lights, signs, and other devices and take any other necessary protective measures to prevent damage or injury to the public. Provide flaggers whenever necessary to ensure that the public is given safe guidance through the work zone.							
Utilities and Emergency Services							
A Transportation Management Plan (TMP) identifying temporary closures and detours will be coordinated with law enforcement, fire protection and emergency medical providers.	Proj Mgmt & Contractor	Pre-Construction/ Construction					
Traffic & Transportation							
A TMP was prepared for the Project that includes strategies and measures to avoid and minimize disruption to local access, roadways, and bike and pedestrian facilities during construction.	Proj Mgmt & Contractor	Design/ Construction					
The existing sidewalks along Orangewood Avenue and Katella Avenue that are impacted by this Project will be reconstructed as part of the project. Where required, sidewalks, curbs, and gutters would be reconstructed to meet current Americans with Disabilities Act (ADA) Standards (28 CFR 35. 151).	Contractor	Construction					
Visual/Aesthetics							
AV-1: Replace in kind disturbed landscaping within the existing Classified Landscape Freeway segments from PM 11/5 to PM 12.02 and PM 12.11 to PM 12.5 to maintain the designation. New landscape plantings shall be consistent with the existing landscaping within the project area. A permanent irrigation system will be provided for landscape plantings.	Contractor	Post Construction					

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<p>AV-2: In coordination with Caltrans' Landscape Architecture Unit, develop a Project Aesthetics and Landscape Master Plan for the project. The master plan would discuss measures to preserve existing plants, preserve the freeway status, revegetate disturbed areas, address corridor themes including structure aesthetics, and screen or enhance project elements.</p>	Proj Mgmt & Contractor	Pre-Construction							
<p>A Landscape Master Plan would be developed for the Project and would discuss measures to preserve existing plants, revegetation of disturbed areas with a three-year Plant Establishment Period, and corridor theming, including structure aesthetics and screening. During construction, every effort will be employed to maintain existing mature trees within the State's Right of Way (ROW). Vegetation removed during construction would be replaced in kind to maintain the Classified Landscaped Freeway designation. New landscaping will be consistent with existing landscaping.</p>	Proj Mgmt & Contractor	Pre-Construction							
<p>Context sensitive solutions will be considered to help reflect the unique character of the community, reduce the visual effects of the Project and provide compatibility with existing resources and features. Contextual elements such as retaining walls, bridge abutments, lighting, landscaping and slopes will be considered for application of the following solutions:</p> <ul style="list-style-type: none"> • During construction, lighting would be shielded and/or focused on work areas to minimize ambient spillover into adjacent areas. • Grading cuts and fills would be contoured to visually blend with the surrounding landscape to the extent practical. • The color and aesthetic treatment of the highway and associated structures, such as retaining walls, medians, bridge abutments and columns would be 	Project Engineer/ Contractor	Design/ Construction							

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<p>applied consistently with other highway structures in the project vicinity.</p> <ul style="list-style-type: none"> The Project would retain as much existing vegetation as possible, particularly mature trees that are located between the highway and adjacent land uses. 							
Cultural Resources							
<p>Caltrans Standard Specification 14-2.03A: If cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find.</p>	Contractor, Caltrans Resident Engineer & Caltrans Archaeologist	Construction, Post-Construction (if necessary)					
<p>Public Resources Code 7050.5: If human remains are discovered, further disturbance and activities shall cease in any area or nearby area suspected to overlie remains and the County Coroner shall be contacted.</p>	Contractor, Caltrans Resident Engineer & Caltrans Archaeologist	Construction, Post-Construction (if necessary)					
<p>Public Resources Code 5097.98: If discovered human remains are thought to be Native American, the Coroner will notify the Native American Heritage Commission (NAHC), which will then notify the Most Likely Descendant (MLD).</p>	Contractor, Caltrans Resident Engineer & Caltrans Archaeologist	Construction, Post-Construction (if necessary)					
Water Quality & Storm Water Runoff							
<p>PF-WQ-1: Implement Storm Water Treatment BMPs. The Northbound SR 57 Improvement Project would be required to conform to the requirements of the Caltrans Statewide NPDES Storm Water Permit, Order No. 2012-0011-DWQ, NPDES No. CAS000003, adopted by the SWRCB on September 19, 2012, and any subsequent permit in effect at the time of construction. The Caltrans Statewide Permit requires the implementation of Treatment BMPs to minimize</p>	Contractor	Pre-Construction					Q-2 :

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potential water quality and hydrological impacts associated with operation of the Project.							
PF-WQ-2 : Implement Temporary Construction Site BMPs. The Northbound SR 57 Improvement Project would be required to comply with the requirements of the NPDES Permit for Construction Activities, Order No. 2009-0009-Dacs of construction-related pollutants. The SWPPP shall include BMPs to control pollutants, sediment from erosion, storm water runoff, and other construction-related impacts. In addition, the SWPPP shall include implementations of specific storm water effluent monitoring requirements based on the Project's risk level to ensure that the implemented BMPs are effective in preventing discharges from WQ, NPDES No. CAS000002, as well as implementation of the BMPs specified in Caltrans' Storm Water Management Plan (Caltrans 2016b).	Contractor	Pre-Construction					
PF-WQ-3: Prepare and Implement a Storm Water Pollution Prevention Plan. The Project would be required to prepare and implement an acceptable SWPPP. The SWPPP shall contain BMPs that have demonstrated effectiveness at reducing storm water pollution. The SWPPP shall address all construction-related activities, equipment, and materials that have the potential to affect water quality. All Construction Site BMPs would follow the latest edition of the Storm Water Quality Handbooks, Construction Site BMPs Manual to control and minimize the impacts of construction-related pollutants. The SWPPP shall include BMPs to control pollutants, sediment from erosion, storm water runoff, and other construction-related impacts. In addition, the SWPPP shall include implementation of specific storm water effluent monitoring requirements based on the Project's risk level to ensure that the implemented BMPs are effective in preventing discharges from exceeding any of the water quality standards.	Contractor	Pre-Construction					

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PF-WQ-4: Construction Site Dewatering. If dewatering is expected for the preferred alternative, the Project shall fully conform to the requirements specified in Order No. R8-20015-0004, General Waste Discharge Requirements for Discharges to Surface Waters that Pose an Insignificant (De Minimus) Threat to Water Quality. This NPDES permit is applicable to construction dewatering waste and dewatering waste from subterranean seepage.	Contractor	Pre-Construction						
PF-WQ-5 : Implement Design Pollution Prevention BMPs. As specified in Caltrans' Storm Water Management Plan (Caltrans 2016a), the Northbound SR 57 Improvement Project would be required to incorporate Design Pollution Prevention BMPs which prevent erosion and promote infiltration.								
Geology/Soil/Seismicity/Topography								
GEO – 1: Seismic Induced Liquefaction: Subsurface investigations will be performed at the beginning of the PS&E phase to determine the effects of seismically induced liquefaction on the bridge structures, the extent of the risk and whether additional retrofit strategies will be required.	Proj Mgmt & Proj Engineer	Design						
The Project will be constructed and designed in accordance with Caltrans Standard Specifications 19 regarding avoidance of damaging groundwater utilities or structures during excavations associated with the project constructions. In areas where compacted fill will be placed, the soil, dry or saturated soil, and otherwise unsuitable materials, will be removed prior to fill placement. Fill placed on sloping ground will be properly keyed and benched into existing ground and placed as specified in the Caltrans Standard Specifications.								

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Paleontology							
Caltrans Standard Specification 14-7.03: If unanticipated paleontological resources are discovered all work within 60-feet of the discovery must cease and the construction resident engineer must be notified. Work cannot continue near the discovery until authorized.	Contractor, Caltrans Resident Engineer & Caltrans Archaeologist	Construction, Post-Construction (if necessary)					
Air Quality							
The construction contractor must comply with the Department's Standard Specifications in Section 14-9 (2015) to minimize impacts to Air Quality.	Contractor	Construction					
Section 14-9.02 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.	Contractor	Construction					
Section 14-9.03 is directed at controlling dust. If dust palliative materials other than water are to be used, material specifications are described in Section 18.	Contractor	Construction					
Construction equipment and vehicles will be properly tuned and maintained. All construction equipment will use low sulfur fuel as required by CA Code of Regulations Title 17, Section 93114.	Contractor	Construction					
The project's contractors will comply with the South Coast Air Quality Management District (SCAQMD) rules and regulations during construction operations. This includes rules: <ul style="list-style-type: none"> • Rule 401 - Visible Emissions. Rule 401 states that no person shall discharge air contaminants of specified opacity for more than 3 minutes in 1 hour. • Rule 402 - Nuisance. Under Rule 402, no air contaminant shall be released into the atmosphere that causes a public nuisance. The rule prohibits discharge of air contaminants that could cause 	Contractor	Construction					

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<p>injury, detriment, nuisance, or annoyance to the public. An offensive odor can be considered a nuisance or annoyance.</p> <ul style="list-style-type: none"> • Rule 403 – Fugitive Dust. The purpose of this Rule is to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (man-made) fugitive dust sources by requiring actions to prevent, reduce or mitigate fugitive dust emissions. • Rule 403.1 – Supplemental Fugitive Dust Control Requirements for Orange County Sources. The purpose of this rule is to reduce or prevent the amount of fine particulate matter (PM10) entrained in the ambient air from anthropogenic (man-made) fugitive dust sources. • Rule 404 – Particulate Matter – Concentration. Under Rule 404, a person shall not discharge into the atmosphere from any source, particulate matter in excess of the concentration at standard conditions, as specified in the rule. • Rule 405 – Solid Particulate Matter – Weight. Under Rule 405, a person shall not discharge into the atmosphere from any source, solid particulate matter including lead and lead compounds, in excess of the rates specified in the rule. 									
Noise									
<p>Caltrans Standard Specifications Section 14.8-02: Control and monitor noise resulting from work activities. Do not exceed 86 dBA L_{max} at 50 feet from the job site from 9 p.m. to 6 a.m.</p>	Contractor	Construction							
Biological Resources									
<p>BIO-1: Delineation of Environmentally Sensitive Areas. Prior to clearing or construction, highly visible barriers (such as orange construction fencing) will be installed around areas adjacent to the project footprint to designate environmentally sensitive areas to be</p>	Project Biologist/ Contractor	Pre-Construction							

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protected. No project activity of any type will be permitted within these environmentally sensitive areas. In addition, heavy equipment, including motor vehicles, will not be allowed to operate within the environmentally sensitive areas. All construction equipment will be operated in a manner to prevent accidental damage to environmentally sensitive areas. No structure of any kind, or incidental storage of equipment or supplies, will be allowed within these protected zones. Silt fence barriers will be installed at the environmentally sensitive area boundary to prevent accidental deposition of fill material in areas where vegetation is immediately adjacent to planned grading activities. (OCTA M2 NCCP/HCP Section 5.6.1)									
BIO-2: Restoration of Temporary Impacts. Areas of natural habitat that are temporarily affected by construction activities will be restored to a natural condition. The restoration effort will emulate surrounding vegetation characteristics and/or return to previous conditions. For freeway construction projects, revegetation plans will be part of the project design following Caltrans' landscape architecture guidelines and requirements. Restoration plans will be reviewed and approved by the Wildlife Agencies. (OCTA M2 NCCP/HCP Section 5.6.1)	Project Biologist/ Contractor	Construction							
BIO-3: Trash Control. To avoid attracting predators of Covered Species and other sensitive species, the project site will be kept as clean of debris as possible. All food-related trash items will be enclosed in sealed containers and regularly removed from the site(s). (OCTA M2 NCCP/HCP Section 5.6.1)	Contractor	Construction							
BIO-4: Onsite Training. When in or near natural habitat areas, all personnel involved in the onsite project construction will be required to participate in a preconstruction training program to understand the	Contractor	Construction							

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avoidance and minimization obligations on the project. (OCTA M2 NCCP/HCP Section 5.6.1)							
BIO-5: Biological Monitoring. The Biological Monitor will be present on site during all grubbing and clearing of vegetation near ESAs to ensure that these activities remain within the Project footprint and that the flagging/stakes/fencing is being maintained. The Biological Monitor will send weekly monitoring reports to Caltrans and the OCTA NCCP Administrator during the grubbing and clearing of vegetation near ESAs. (OCTA M2 NCCP/HCP Section 5.6.1)	Project Biologist	Construction					

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<p>BIO-6: Jurisdictional Aquatic Resources and Species Policy. The OCTA Conservation Plan requires that construction activities in aquatic resources, such as the Santa Ana River, be restricted during the rainy season (October 15 through June 1) or be conducted when the resource is dry and/or lacks flowing or standing water. Construction activities in human-made features cannot be restricted to a given season because they are often managed, and, therefore, water may be present regardless of the season. In the event that construction work-window restrictions cannot be followed, or in the case of human-made features, additional avoidance and minimization measures are required. As part of the additional specific avoidance and minimization measures, dewatering and water diversion will be implemented as described below, and additional Best Management Practices (BMP) to reduce potential water quality related indirect impacts on special aquatic resources will be implemented as determined through consultation with USACE, CDFW's Lake and Streambed Alteration Program, and RWQCB (SWRCB). The additional BMPs may include the placement of additional straw wattles, silt fencing, or protective barriers as necessary.</p>	Contractor	Construction							

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<p>BIO - 7: Dewatering/Water Diversion. Construction activities in special aquatic resources will be restricted to the dry season (June 1 through October 15) when possible. However, open or flowing water may be present during construction. If construction occurs where there is open or flowing water, a strategy that is approved by the resource agencies (e.g., USACE, CDFW's Lake and Streambed Alteration Program, and RWQCB), such as the creation of cofferdams, will be used to dewater or divert water from the work area. If cofferdams are constructed, implementation of the following cofferdam or water diversion measures is recommended to avoid and lessen aquatic resources impacts during construction:</p> <ul style="list-style-type: none"> • The cofferdams, filter fabric, and corrugated steel pipe are to be removed from the creek bed after completion of the project. • The timing of work within all channelized waters is to be coordinated with the regulatory agencies. • The cofferdam is to be placed upstream of the work area to direct base flows through an appropriately sized diversion pipe. The diversion pipe will extend through the contractor's work area, where possible, and outlet through a sandbag dam at the downstream end. • Sediment catch basins immediately below the construction site are to be constructed when performing in-channel construction to prevent silt- and sediment-laden water from entering the mainstream flow. Accumulated sediments will be periodically removed from the catch basins. 	Contractor	Construction					
<p>BIO - 8: Use of Best Management Practices During Construction: Caltrans/OCTA will identify structural and non-structural Best Management Practices (BMPs) to control sediment and non-storm water discharges from the Project site to protect water quality. Actions to prevent sediment from entering</p>	Contractor	Construction					

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<p>watercourses during and after construction may include, but are not limited to, the following BMPs: silt fencing, fiber rolls, gravel bag berms, sand bag barriers, tracking controls, stockpile management, dry season scheduling, proper material delivery and storage, solid waste management, concrete waste management, preservation of existing vegetation, temporary soil stabilization, dust and erosion control, soil binders, and straw mulch. No site personnel will discard solid or liquid materials into jurisdictional water features or any ESA lands. Temporary, construction-related BMPs may include, but will not be limited to, the following:</p> <ul style="list-style-type: none"> • Silt Fence. A silt fence is made of a filter fabric that has been entrenched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains sediment-laden water, promoting sedimentation behind the fence. • Fiber Rolls. A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll and wrapped by netting, which can be photodegradable or natural. Fiber rolls with plastic netting that poses a wildlife entanglement hazard will not be used. Fiber rolls used for erosion control will be certified as free of noxious weed seed. When fiber rolls are placed at the toe and on the face of slopes along contours, they intercept runoff; reduce its flow velocity; release the runoff as sheet flow; and provide removal of sediment from the runoff. By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established. • Gravel Bag Berms. A series of gravel-filled bags are placed on a level contour to intercept sheet flows. Gravel bags pond sheet flow runoff, allowing sediment to settle out and release runoff slowly as sheet flow, preventing erosion. 								

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<ul style="list-style-type: none"> • Preservation of Existing Vegetation. Careful planned preservation of existing vegetation minimizes the potential removal or injury to existing trees, vines, shrubs, and grasses that protect soil from erosion. • Stockpile Management. Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, paving materials (e.g., Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate), asphalt minder (so called "cold mix" asphalt), and pressure-treated wood. • Vehicle and Equipment Maintenance. Contamination of storm water resulting from vehicle and equipment maintenance can be prevented or reduced by running a "dry and clean site". The best option would be to perform maintenance activities at an off-site facility. If this option is not available, then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately. Employees and subcontractors must be trained in proper procedures. 									
<p>BIO - 9: Best Management Practices Incorporated into Project Design: Caltrans/OCTA will include permanent treatment BMPs in the Project design that will upgrade and install storm drain system facilities and storm drain controls for the Project. Permanent BMPs will be implemented for the protection of water quality using Caltrans-approved techniques and would be designed to meet RWQCB and National Pollutant Discharge Elimination System (NPDES) permit requirements. Permanent treatment BMPs may</p>	<p>Caltrans/OCTA /Project Engineer/ Contractor</p>	<p>Design/Pre-Construction/ Construction</p>							

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<p>include, but would not be limited to, infiltration devices (infiltration trenches), biofiltration swales, and biofiltration strips.</p> <ul style="list-style-type: none"> Infiltration trenches are basins or trenches that store runoff and allow it to infiltrate into the ground, thus preventing pollutants in the captured runoff from reaching surface waters. Biofiltration strips are vegetated land areas, over which storm water flows as sheet flow. Biofiltration swales are vegetated channels, typically configured as trapezoidal or V-shaped channels that receive and convey storm water flows while meeting water quality criteria and other flow criteria. Pollutants are removed by filtration through the vegetation, sedimentation, adsorption to soil particles, and infiltration through the soil. Strips and swales are effective at trapping litter, total suspended sediment, and particulate metals. Biofiltration strips and swales would be considered wherever site conditions and climate allow vegetation to be established and where flow velocities will not cause scour. <p>The intent of the BMPs implemented will be to reduce pollutants in storm water discharge to the maximum extent practicable (MEP).</p> <ul style="list-style-type: none"> The Project will conform to the Caltrans State Storm Water Management Plan (SWMP) (Caltrans 2003) and will provide guidance for compliance with the NPDES Permit requirement for discharge. As part of the Project Delivery Storm Water Management Program described in the SWMP, selected Construction Site, Design Pollution Prevention, and Treatment BMPs will be incorporated into the Project. Compliance with the standard requirements of the SWMP for potential short-term (during construction) and long-term (post construction) impacts will avoid or minimize potential impacts on water quality and storm water 									

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<p>runoff. Conformance with the SWMP will include the following:</p> <ul style="list-style-type: none"> o Covered Projects will comply with the provisions of the Caltrans Statewide NPDES Permit (Order No. 2012-0011-DWQ, NPDES No. CAS00003) and the NPDES General Permit, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002), and any subsequent permit in effect at the time of construction. o A Storm Water Pollution Prevention Plan (SWPPP) will be prepared and implemented to address all construction-related activities, equipment, and materials that have the potential to affect water quality. The SWPPP will identify the sources of pollutants that may affect the quality of storm water and include the Construction Site BMPs to control pollutants (e.g., sediment control, catch basin inlet protection, construction materials management) and non-stormwater BMPs. All Construction Site BMPs will follow the latest edition of the Storm Water Quality Handbooks, Project Planning and Design Guide (Caltrans 2007) to control and minimize the impacts of construction and construction-related activities, material, and pollutants on the watershed. These include, but are not limited to temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other non-storm water BMPs. o Caltrans-approved treatment BMPs will be implemented to the MEP consistent with the requirements of the NPDES Permit, Statewide Storm Water Permit, and WDRs for Caltrans Properties, Facilities, and Activities (Order No. 2012-0011-DWQ, NPDES No. CAS000003). 									

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<ul style="list-style-type: none"> o Treatment BMPs will include, for example, biofiltration strips/swales, infiltration basins, detention devices, dry weather flow diversion, Gross Solids Removal Devices (GSRDs), media filters, and wet basins. Final determination regarding the selection of treatment BMPs will occur during the design phase. o Design Pollution Prevention BMPs will be implemented, such as preservation of existing vegetation, slope/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems (e.g., ditches, berms, dikes and swales), oversized drains, flared end sections, and outlet protection/velocity dissipation devices. o Construction site dewatering must conform to the General Waste Discharge Requirements for Discharges to Surface Waters that Pose an Insignificant (de minimus) Threat to Water Quality (Order No R8-2009-0003, NPDES No. CAG998001), and any subsequent updates to this permit at the time of construction. Dewatering BMPs must be used to control sediments and pollutants, and the discharges must comply with the WDRs issued by the Santa Ana RWQCB. 									
<p>WET-1: Unavoidable permanent losses of streambeds and jurisdictional waters, will be compensated at the pre-approved mitigation sites identified in Table E-1 of Appendix E of the OCTA Conservation Plan (ICF 2016b), The Streambed Program and USACE LOP permit safeguards that OCTA will achieve the no-net-loss standards. Additionally, for temporary disturbances to streambeds, the impact areas will be restored to their pre-project conditions, when appropriate, to achieve the no-net-loss standards.</p>	Proj Mgmt & Contractor	Pre-Construction/ Post-Construction							

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<p>BIRD-1: Nesting Birds Policy (OCTA Conservation Plan Section 5.6.3). A Nesting Birds Policy will be implemented to conform to existing regulations and procedures for protection of nesting birds. Migratory native bird species are protected by international treaty under the MBTA of 1918 (50 CFR 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code make it unlawful to: take, possess, or needlessly destroy the nest or eggs of any bird (3503); take, possess or destroy any birds in the orders of Falconiformes or Strigiformes (birds-of-prey) and the nest and eggs of any such bird (3503.5); and take or possess any migratory nongame bird, or any part thereof, as designated in the MBTA. Under state law, take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill (Fish and Game Code Section 86), and includes take of eggs and/or young resulting from disturbances that cause abandonment of active nests.</p> <p>Proposed project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates) should occur outside of the avian breeding season, which generally runs from February 1 to September 30 (as early as January 1st, for some birds) to avoid disturbance to breeding birds or destruction of the nest or eggs. Depending on the avian species present, a qualified biologist may determine that a change in the breeding season dates is warranted.</p> <p>If the Construction Lead determines that avoidance of the avian breeding season is not feasible, at least 2 weeks prior to the initiation of project activities, a qualified biologist with experience in conducting breeding bird surveys will conduct weekly bird surveys to detect presence/absence of native bird species occurring in suitable nesting habitat that is to be directly or indirectly disturbed and (as access to</p>	<p>Proj Mgmt/ Project Biologist/ Contractor</p>	<p>Pre- Construction/ Construction</p>							

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<p>adjacent areas allows) any other such habitat within an appropriate buffer distance of the disturbance area. Generally, the buffer distance should be 300 feet (500 feet for raptors); however, because the covered freeway improvement projects will generally occur along noisy freeways, a buffer distance as low as 100 feet for non-raptors could be appropriate. If a narrow buffer distance is warranted, the Construction Lead will have a qualified biologist identify the appropriate buffer distances for raptors and non-raptors and notify Wildlife Agencies. The surveys should continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of project activities. If a native or nesting bird species is found, the Construction Lead will do one of the following to avoid and minimize impacts on native birds and the nest or eggs of any birds:</p> <ul style="list-style-type: none"> a. Implement default 300-foot minimum avoidance buffers for all birds and 500-foot minimum avoidance buffers for all raptor species. The breeding habitat/nest site will be fenced and/or flagged in all directions, and this area will not be disturbed until the nest becomes inactive, the young have fledged, the young are no longer being fed by the parents, the young have left the area, and the young will no longer be impacted by the project. b. If a narrower buffer distance is determined appropriate by the qualified biologist, the Construction Lead will develop a project-specific Nesting Bird Management Plan. The site-specific nest protection plan will be developed collaboratively with Wildlife Agencies and submitted to the Wildlife Agencies, although the Wildlife Agencies will not be responsible for approving the narrower buffer distance and the Nesting Bird Management Plan. The Plan should include detailed methodologies and definitions to 									

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<p>enable a qualified avian biologist to monitor and implement nest-specific buffers based on topography, vegetation, species, and individual bird behavior. This Nesting Bird Management Plan will be supported by a Nest Log that tracks each nest and its outcome. The Nest Log will be submitted to the Wildlife Agencies at the end of each week.</p> <p>c. The Construction Lead may propose an alternative plan for avoidance and nesting birds for Wildlife Agencies' review and approval. Flagging, stakes, and/or construction fencing should be used to demarcate the inside boundary of the buffer between the project activities and the nest. The Construction Lead personnel, including all contractors working on site, should be instructed on the sensitivity of the area. The Construction Lead will document the results of the recommended protective measures described above to demonstrate compliance with applicable state and federal laws pertaining to the protection of native birds.</p> <p>The biological monitor will be present on site during all grubbing and clearing of vegetation to ensure that these activities remain within the project footprint (i.e., outside the demarcated buffer) and that the flagging/stakes/fencing is being maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor will send weekly monitoring reports to the OCTA NCCP Administrator during the grubbing and clearing of vegetation and will notify the OCTA NCCP Administrator immediately if project activities take, possess, or needlessly destroy the nest or eggs of any bird as well as birds-of-prey and their nest or eggs. Within 48 hours of damage to an active nest or eggs or observed death or injury of birds protected</p>									

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under state law or the MBTA (which includes, but not is limited to, the birds on the Covered Species list), OCTA will notify the Wildlife Agencies.									
BIRD BAT – 1 : Despite the lack of presence of bats in the project site during initial surveys, all work areas on existing bridges with potential bat roosting habitat will be cleared of all bats during the fall (i.e., September or October) outside of the maternity season (i.e., April 1–August 24) to avoid trapping flightless young inside during the summer months or hibernating individuals during the winter. Exclusion efforts are to occur prior to the initiation of construction activities under the guidance and observation of a qualified bat biologist. Exclusionary devices should be used to exclude bats from directly affected work areas and avoid potential direct impacts. Such exclusion efforts must be continued to keep the structures free of bats throughout the duration of the construction activities or until construction at the location is deemed complete and bat use is again acceptable. All bat exclusion techniques will be coordinated between the Department and the resource agencies, as applicable.	Project Biologist/ Contractor	Pre- Construction/ Construction							
BIRD BAT – 2 : If a bat maternity colony is detected, alternate roosting habitat shall be created and/or identified and monitored to ensure habitat is successfully occupied prior to exclusion.	Project Biologist/ Contractor	Pre- Construction							

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<p>BIRD BAT – 3 : Prior to any vegetation clearing and bridge construction scheduled during the bat breeding season, a qualified biologist will conduct outflight census activities to determine the presence or absence of bat roosts within 72 hours prior to any clearing of vegetation or bridge construction. If roosting bats are detected, the biologist shall report and consult with resource agencies prior to commencing project activities within 500 feet of the bat detection site(s). The location of any bat roosts will be mapped, and an appropriate activity exclusion area or exclusion devices will be installed to preclude bats from being taken when project work occurs. The exclusion area will be clearly visible and remain in place until bat roosts are deemed inactive by a qualified biologist. If warranted bat exclusion devices, deterrent protocols and procedures shall be pre-approved by resource agencies prior to being implemented by OCTA.</p>	<p>Proejct Biologist/ Contractor</p>	<p>Pre-Construction</p>							
<p>In compliance with the Executive Order on Invasive Species, EO 13112, invasive species would be removed from the Project and controlled during construction. The Project includes construction methods and measures to reduce the potential for the spread of invasive species including, removal of invasive species in ground disturbed areas and equipment inspections to reduce the transport of invasive species.</p>									
<p>Invasive Species</p>									
<p>PLANT – 1: Invasive Species Control. Invasive species will be removed from the project work area and controlled during construction. The use of known invasive plant species (i.e., plant species listed in California Invasive Plant Council's [Cal-IPC's] California Invasive Plant Inventory with a High or Moderate rating) will be prohibited for construction,</p>	<p>Contractor</p>	<p>Construction</p>							

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revegetation, and landscaping activities. Project measures will be included to ensure invasive plant material is not spread from the project site to other areas by disposal off site or by tracking seed on equipment, clothing, and shoes. Equipment/material imported from an area of invasive plants must be identified and measures implemented to prevent importation and spreading of nonnative plant material within the project site. All construction equipment will be cleaned with water to remove dirt, seeds, vegetative material, or other debris that could contain or hold seeds of noxious weeds before arriving to and leaving the project site. Eradication strategies (i.e., weed abatement programs) will be employed should an invasion occur during construction. (OCTA M2 NCCP/HCP Section 5.6.1)									
Hazards and Hazardous Materials									
HAZ-1: Thermoplastic Pavement Marking. During Final Design (PS&E) additional investigation to determine whether pavement markings contain lead and chromium shall be conducted and appropriate measures to address these potential contaminants will be included in the final bid package, if needed.									
HAZ-2 : Aerially Deposited Lead. During final Design (PS&E) surface soils in unpaved areas along the project corridor that will be disturbed during construction shall be tested for ADL according to Calteans ADL testing guidelines. Methods for handling and disposal if required, as well as Caltrans Standard Specifications or Special Provisions required to comply with rules and regulations applicable to handling ADL contaminated soils, shall be determined prior to earth moving activities.									
HAZ-3 : Polychlorinated Biphenyls. During Final Design (PS&E) additional environmental investigations to determine the potential for impacts resulting from									

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Polychlorinated Biphenyls (PCBs) shall be conducted to determine proper management, handling and disposal, if needed, as well as to identify Caltrans Standard Specifications required to comply with rules and regulations applicable to handling any identified hazardous material.									
HAZ-4 : Groundwater Dewatering. Should dewatering be required an NPDES permit under Caltrans jurisdiction for temporary discharge will be required. During dewatering activities, groundwater sampling shall be conducted to evaluate proper management, handling, and disposal of excess groundwater.									
Caltrans Standard Specification Section 13-4.03G: Controls dewatering work and discharge activities associated with dewatering.									

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