State Route 29 Bridge Rail Replacement Project

NAPA COUNTY, CALIFORNIA DISTRICT 4 – NAP – 29 (PM 16.48/19.04) EA 04-0K630 / ID 0416000111

Initial Study with Negative Declaration



Prepared by the

State of California, Department of Transportation

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 USC 327 and the Memorandum of Understanding dated December 23, 2016 and executed by the Federal Highway Administration and Caltrans.



October 2020

General Information about this Document

What's in this document:

The California Department of Transportation (Caltrans) has prepared this Initial Study with Negative Declaration (IS/ND) for the proposed State Route (SR) 29 Bridge Rail Replacement Project (Project) in Napa County, California, from post mile (PM) 16.48 to PM 19.04 (Figure 1-1). Caltrans is proposing to replace existing bridge rails on three bridges along SR 29. The Project would also include reconstruction of bridge wing walls and widening within the Project limits to accommodate standard shoulder widths. Additional Project information is provided in Chapter 2.

As the lead agency under the California Environmental Quality Act (CEQA), Caltrans has prepared this IS/ND which describes why the Project is being proposed, how the existing environment could be affected by the Project, potential environmental impacts, and the proposed Project Features and Avoidance and Minimization Measures.

The IS with Proposed ND was circulated to the public beginning on July 22, 2020 and ending on August 31, 2020. One comment letter was received during the public comment period, and responses to these comments are included in Appendix I. Throughout this document, a vertical line in the margin indicates where changes were made since the IS with Proposed ND was circulated for public review. Minor editorial changes and clarifications have not been so indicated.

Alternative Formats:

For individuals with sensory disabilities, this document can be made available in Braille, in large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please call or write:

California Department of Transportation, Attn: Lindsay Vivian, Office Chief, District 4, Office of Environmental Analysis, 111 Grand Avenue, MS 8-B, Oakland, CA 94612 or call California Relay Service 1 (800) 735-2929 (TTY), 1 (800) 735-2929 (Voice), or 711.

An Americans with Disabilities Act-compliant electronic copy of this document is available for download at: <u>https://dot.ca.gov/caltrans-near-me/district-4/d4-popular-links/d4-environmental-docs</u>.

Initial Study with Negative Declaration

4-NAP-29

16.48/19.04

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PM

Project title:	State Route 29 Bridge Rail Replacement Project
Lead agency name and address:	California Department of Transportation 111 Grand Avenue, Oakland, CA 94612
Contact person and phone number:	Lindsay Vivian, Office Chief (510) 506-4310
Project location:	Napa County, California
General plan description:	Highway
Zoning:	Transportation Corridor
State Clearinghouse (SCH) No.	2020070433
Other public agencies whose approval is required (e.g., permits, financial approval, or participation agreements); CEQA Responsible Agencies are denoted with an asterisk (*):	 Clean Water Act 404 Nationwide Permit from the U.S. Army Corps of Engineers Clean Water Act 401 Water Quality Certification from the State Water Resources Control Board* Section 1602 Lake and Streambed Alteration Agreement from the California Department of Fish and Wildlife* Incidental Take Permit from the California Department of Fish and Wildlife* Biological Opinion (BO) from the U.S. Fish and Wildlife Service Letter of Concurrence (LOC) on BO from the National Marine Fisheries Service California Transportation Commission*

Lindsaya Viron

Lindsay Vivian Chief, Office of Environmental Analysis Caltrans District 4 10/15/2020

Date

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Negative Declaration

Project Description

The California Department of Transportation (Caltrans) has prepared this Initial Study with Negative Declaration (IS/ND) for the State Route (SR) 29 Bridge Rail Replacement Project (Project) in Napa County, California, from post mile (PM) 16.48 to PM 19.04 (Figure 1-1). Caltrans is proposing to replace existing bridge rails on three bridges along SR 29. The Project would also include reconstruction of bridge wing walls and widening to bring shoulder widths within the Project limits up to current standards. Additional Project information is provided in Chapter 2.

Determination

This Negative Declaration is included to notify the public and reviewing agencies that Caltrans intends to adopt an ND for this Project. This ND is subject to change based on comments received by the public and reviewing agencies.

Caltrans has prepared an IS for this Project and, following public review, has determined from this study that the proposed Project would not have a significant effect on the environment for the reasons described in the following paragraphs.

The proposed Project would have no impact on agricultural and forest resources, air quality, cultural resources, energy, geology/soils, land use planning, mineral resources, population and housing, public services, recreation, and tribal cultural resources.

The proposed Project would have less than significant impacts on aesthetics, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, biological resources, noise, transportation and traffic, utilities and service systems, and wildfires.

Melanie Brent

Melanie Brent Deputy District Director, Environmental Planning and Engineering District 4—California Department of Transportation October 15, 2020

Date

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Chapter 1 Proposed Project

1.1 Introduction

The California Department of Transportation (Caltrans) is the California Environmental Quality Act (CEQA) lead agency and sponsor for the proposed State Route (SR) 29 Bridge Rail Replacement Project (Project) and has prepared this Initial Study with Negative Declaration (IS/ND).

The proposed Project is located along SR 29 in Napa County, California, from post mile (PM) 16.48 to PM 19.04 (Figure 1-1). Caltrans aims to replace the existing bridge rails on Dry Creek Bridge (Identification [ID] 21-0014) at PM 16.48; Perfume Creek Bridge (ID 21-0051) at PM 17.81; and California Drive Undercrossing Bridge (ID 21-0047) at PM 19.04. Appendix G includes representative photos of the three existing bridges.

This Project would be funded from the State Highway Operation Protection Program (SHOPP) under the Bridge Rail Replacement/Upgrade Program (201.112). The estimated total capital cost including right of way (ROW) acquisition for this Project is approximately \$7.41 million.

1.2 Purpose and Need

The purpose of this Project is to upgrade bridge rails at Dry Creek Bridge, Perfume Creek Bridge, and California Drive Undercrossing Bridge on SR 29 in order to meet current crash and safety standards. Meeting these standards would promote the protection of the traveling public by enhancing the reliability of the bridge rails. The Project would enhance corridor safety within the Project limits (Caltrans 2020e).

The Project is needed because the Structure Replacement and Improvement Needs Report (STRAIN) identified three bridges from PM 16.48 to PM 19.04 on SR 29 in need of bridge rail upgrades. Reports from the Bridge Inspection Records Information System (BIRIS) in 2015 as well as STRAIN showed that the existing bridge rails at the three bridges do not meet current crash and safety standards, and therefore, require replacement and upgrades. These structures exhibit bridge rail deterioration and damage as a result of vehicle collisions. If not addressed, further deterioration of the rails would affect the structural integrity of the SR 29 highway and ultimately the safety of the travelling public. Lastly, Caltrans' Mandatory and Advisory Design Standards require that for all three bridges, existing non-standard shoulder widths (those less than 8 feet) should be widened to current standards as part of this Project.

1.3 Project Description

Caltrans proposes to upgrade existing bridge rails at Dry Creek Bridge (Bridge ID 21-0014) at PM 16.48, Perfume Creek Bridge (Bridge ID 21-0051) at PM 17.81, and California Drive Undercrossing Bridge (Bridge ID 21-0047) at PM 19.04 on SR 29 in Napa County to meet current crash and safety standards. All three bridges would be widened as well in order to attain standard shoulder widths. Work on Dry Creek Bridge and Perfume Creek Bridge would include reconstructing or extending wing walls, while work on California Drive Undercrossing Bridge would include retaining wall replacement.



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California Drive Undercrossing Bridge Project Footprint (PM 19.04)
Dry Creek Bridge Project Footprint (PM 16.48)
Perfume Creek Bridge Project Footprint (PM 17.81)

----- Caltrans Right of Way

Service Layer Credits: ESRI, National Geographic, DigitalGlobe, GeoEye





Figure 1-1 Project Location State Route 29 Bridge Rail Replacement Project EA 04-0K630, NAP-29 Post Mile 16.48,17.81,19.04 Napa County, California

2.1 Introduction

The roughly 2.5-mile stretch along SR 29 from PM 16.48 to PM 19.04 is defined for this Project as the "Project corridor." The Project corridor is a divided four-lane conventional highway composed of four travel lanes, with two lanes in each direction. Within the Project limits, SR 29 is bordered on both sides by residential, commercial, and agricultural land uses. The corridor is the primary north/south route through Napa County, connecting with State Routes 37, 221, 12, 121, and 28. The corridor also serves regional travel, linking the cities of Napa, Yountville, St. Helena, and Calistoga (Figure 1-1).

2.2 Bridge Work

Caltrans proposes to upgrade existing bridge rails at three individual bridges on SR 29 in Napa County; Dry Creek Bridge at PM 16.48, Perfume Creek Bridge at PM 17.81, and California Drive Undercrossing Bridge at PM 19.04. For all three bridges, existing nonstandard right shoulders that are less than 8 feet wide will be widened to standard as part of the Project. Figures 2-1, 2-2, and 2-3 and Appendix C (Cross Sections) present more details on the type of work proposed at each bridge.

2.2.1 Dry Creek Bridge at PM 16.48

The existing bridge rails on Dry Creek Bridge would be replaced with concrete barrier type 836 (modified for bike railing) in both directions (Figure 2-1). The northbound side of the bridge would require an extension of approximately 5 feet in width by either the cantilever method or the use of cast-in-drilled-hole (CIDH) piles, and the southbound side would require the installation of carbon fiber reinforced polymer. In addition, the retaining walls at abutments 1 and 3 would be reconstructed and CIDH piles would be added at the footing of Pier 2 as well. In addition, a drainage culvert would be installed through the retaining wall at the abutment to allow discharge of stormwater. A concrete block and Midwest Guardrail System (MGS) would also be installed along the approach sections of the bridge in both directions and would replace existing nonstandard metal beam guardrails (MBGRs). Other work would include removing and repairing unsound concrete along the soffit construction joint of Spans 1 and 2.

2.2.2 Perfume Creek Bridge at PM 17.81

The existing bridge rails on Perfume Creek Bridge would be replaced with concrete barrier type 836 (modified for bike railing) in both directions. The southbound side would require an extension of the existing concrete double box culvert by approximately 4 feet and the construction of a new reinforced concrete wing wall (Type 7B) (Figure 2-2). The southbound shoulders at both the approach and departure ends of the bridge would need to be widened to the standard 8-foot shoulder. Lastly, a concrete block and MGS would be installed along the approach and departure sections of the bridge (northbound and southbound directions).

2.2.3 California Drive Undercrossing at PM 19.04

The existing bridge rails on California Drive Undercrossing Bridge would be replaced with concrete barrier type 836 (modified for bike railing) in both directions. The northbound side of the bridge would be widened by approximately 5 feet, while the southbound side would be widened by approximately 2 feet (Figure 2-3). The southbound side would require the installation of carbon fiber reinforced polymer. In addition, the top 3 feet of the existing retaining wall would be removed, and new wing/closure walls would be constructed at the bridge piers and abutments using CIDH piles. A concrete block and MGS would also be installed for the bridge at the approach end in both directions. Other construction work would include repairing soffit lights, changing vertical clearance warning signs, and painting missing bridge IDs.

2.3 Construction Methodology, Schedule, and Equipment

2.3.1 Methodology

The following items and tasks are presented in the likely order of work for all three bridges. Not all of these items would be performed at all three bridges and some items of work can be constructed concurrently:

- Install construction area signs
- Install traffic control system
- Install environmentally sensitive area (ESA) fencing and associated Best Management Practices (BMPs)
- Install stage construction items (e.g., channelizers, temporary K-rails, crash cushions) as required



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Dry Creek Bridge Project Footprint (2.85 acres) Temporary Construction Easement Staging Area Post Mile Caltrans Right of Way Creek

Service Layer Credits: ESRI, National Geographic, DigitalGlobe, GeoEye





Figure 2-1 Dry Creek Bridge State Route 29 Bridge Rail Replacement Project EA 04-0K630, NAP-29 Post Mile 16.48,17.81,19.04 Napa County, California



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	Perfume Creek Bridge Project Footprint (2.10 acres)
1.1.1)	Temporary Construction Easement
	Staging Area
ightarrow	Post Mile
	Caltrans Right of Way
\sim	Creek

Service Layer Credits: ESRI, National Geographic, DigitalGlobe, GeoEye





Figure 2-2 Perfume Creek Bridge State Route 29 Bridge Rail Replacement Project EA 04-0K630, NAP-29 Post Mile 16.48,17.81,19.04 Napa County, California



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	California Drive Undercrossing Bridg Project Footprint (10.99 acres)
	Staging Area
\bigcirc	Post Mile
	Caltrans Right of Way
\sim	Creek

- Clear and grub vegetation
- Remove trees
- Construct temporary access road and work bench
- Install creek diversion systems and cofferdam(s)
- Install dewatering and associated Stormwater Pollution Prevention Plan (SWPPP) measures
- Construct temporary timber matting
- Construct falsework
- Construct all structures items (e.g., retaining walls, wing walls, bridge railings)
- Remove timber matting
- Remove creek diversion systems and cofferdam(s)
- Construct shoulder widening
- Install new MGS and vegetation control
- Install permanent erosion control
- Remove construction area signs and K-rails

Utilities

The Project would require utility verification and potential utility relocation at Perfume Creek Bridge (one PG&E underground gas line). No utility relocations are anticipated for Dry Creek Bridge. California Drive Undercrossing Bridge has one unidentified utility at the northbound direction that would require relocation. Efforts to verify presence of gas lines and other utilities are underway. Delineation of utilities would be completed in the Project's design phase.

Fences and Guardrails

Any fences and guardrails within the Project limits that are damaged or removed due to construction activities would be replaced.

Dewatering and Construction Site BMPs

BMPs would be implemented to minimize the potential for the Project to result in temporary impacts to water quality due to construction activities. BMPs would include measures related to soil stabilization, sediment control, wind erosion control, tracking control, non-storm water management, and wastewater management/materials pollution control.

Right of Way and Temporary Construction Access

Most construction would be conducted within Caltrans' ROW. Several temporary construction easements (TCEs) would be required for construction at Dry Creek Bridge and Perfume Creek Bridge. Dry Creek Bridge would require a TCE of 5,800 square feet and Perfume Creek Bridge would require a TCE of 4,400 square feet, both on private property. For both bridges, a temporary access road along or through the creek bank would be required to provide access for staging purposes and to store and move equipment and materials along the creek bed. For Dry Creek Bridge, equipment may be lowered using a crane east of the bridge from the access road. Temporary creek diversion systems would be installed to dewater the creek beds during work to widen the Dry Creek and Perfume Creek bridges, and to extend the pier and reconstruct the retaining wall at the Dry Creek Bridge. A total of seven trees would be removed from the northbound side of the California Drive Undercrossing Bridge location to construct the retaining wall.

The Napa Valley Wine Train (NVWT) is within the Project limits and runs parallel to SR 29 on the west side of the highway. Due to the proximity of the railroad tracks to Perfume Creek, a ROW agreement would need to be executed to meet NVWT flagging requirements during construction. No construction would occur within 25 feet of the NVWT as measured from the center line of the railroad tracks.

Staging and Construction

Construction of the Project would require several phases due to the distance between the three bridges. One option includes constructing the bridge rails in one direction for the three bridges before switching to the other direction. Another option would be to build the rail improvements for each bridge individually before moving on to the next bridge.

Lane closures would be required for all three bridges. The Project would possibly close one of the lanes of SR 29, the on- and off-ramps of California Drive

Undercrossing, and the frontage road at Perfume Creek during construction. For Perfume Creek Bridge, one-way traffic control with flaggers would be used to conduct traffic control during the placement of the temporary K-rail (Jersey barrier) at the frontage road. For the mainline work, temporary K-rails would be placed using lane closures. This K-rail installation to block off the shoulders of SR 29 would occur at night.

Construction would be conducted during weekdays (Monday through Friday) and daytime hours unless work within the creek would be restricted to the dry season (June 1 to October 15), depending upon environmental permit conditions. In this case, some night work may be required.

2.3.2 Schedule

The Project would require approximately 190 working days and two construction seasons to complete. Construction is anticipated to occur during the day. Some night work within the creek may be necessary if Project construction would be restricted to the dry season (June 1 to October 15). Measures to avoid the take of migratory birds and their nests pursuant to the Migratory Bird Treaty Act and California Fish and Game Code would be implemented. As such, all vegetation and tree removal would be scheduled outside the bird nesting season (February 1 to September 30). If for any reason this schedule cannot be met, a biologist would be present on-site as appropriate, to inspect for federally listed species and migratory birds.

2.3.3 Equipment and Materials

Construction equipment would include, but is not limited to, excavators, backhoes, dump trucks, saw cutting machines, loaders, forklifts, pile and post drivers and augers, cranes, rollers, pavers, and flatbeds.

2.4 Impacts to Vegetation

A total of seven trees would be removed from the northbound side of the California Drive Undercrossing Bridge location to construct the retaining wall. These trees include five giant redwoods (*Sequoiadendron giganteum*), one valley oak (*Quercus lobata*), and one California black oak (*Quercus kelloggii*). These trees would be replaced where feasible based on Caltrans policies. No tree removal is required for Dry Creek Bridge or Perfume Creek Bridge. Please refer to Appendix F for the map of trees to be removed within the Project footprint.

2.5 Permits and Approvals

Table 2-1 summarizes the permits, licenses, agreements, and certifications that would be required for the proposed Project by designated agencies as well as permit status.

Table 2-1 Anticipated Lemits and Approvals for the Linge	Table 2-1	Anticipated Permits an	nd Approvals f	or the Proje
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Agency	Permits and Approvals	Status
California Department of Fish and Wildlife (CDFW)	1602 – Lake and Streambed Alternation Agreement	Application submittal anticipated during next Project phase
CDFW	2081 – Incidental Take Permit	Application submittal anticipated during next Project phase
U.S. Army Corps of Engineers	Section 404 – Clean Water Act (CWA) Permit	Application submittal anticipated during next Project phase
San Francisco Bay Regional Water Quality Control Board	Section 401 – CWA Permit	Application submittal anticipated during next Project phase
U.S. Fish and Wildlife Service (USFWS)	Biological Opinion (BO)	USFWS issued a BO to Caltrans on July 8, 2020 (Appendix J).
National Marine Fisheries Services (NMFS)	Biological Opinion (BO)	NMFS issued a Letter of Concurrence to Caltrans on October 14, 2020

2.6 Project Features

The proposed Project contains a number of standardized Project components that are implemented on most Caltrans projects as part of the design and are not part of Caltrans' response to specific environmental impacts. These components are referenced as Project Features in Chapter 3 as they pertain to different environmental resources and are distinct from avoidance and minimization measures (AMMs) which directly relate to the impacts anticipated to result from the proposed Project.

Table 2-2 lists the Project Features that would be implemented by Caltrans to reduce or avoid potential impacts to the human and natural environment.

Resource Area	Project Feature ID	Project Feature
Aesthetics	Feature AES-1	Vegetation Protection. Existing trees and vegetation within the limits of construction would be preserved to the extent feasible.
Aesthetics	Feature AES-2	Protect Vegetation Outside the Limits of Construction . Trees and vegetation outside of clearing and grubbing limits would be protected from the contractor's operations, equipment, and materials storage.
Aesthetics	Feature AES-3	Erosion Control. After construction, areas cleared for contractor access and trenching operations would be treated with appropriate erosion control measures where required.
Aesthetics	Feature AES-4	Construction Staging. Staging areas would not impact existing landscaped areas resulting in death and/or removal of trees, shrubs, and groundcover.
Aesthetics	Feature AES-5	Construction Waste. During construction operations unsightly material and equipment in staging areas would be placed where they are less visible and/or covered where possible.
Aesthetics	Feature AES-6	Construction Lighting. All construction lighting would be limited to the immediate vicinity of active work during night hours. Light trespass would be avoided and minimized through directional lighting, shielding, and other measures as needed. For required nighttime work, all lighting would be directed downwards and towards the active construction area(s). This would reduce and avoid light and glare impacts on travelers, nearby residences, and nearby recreational facility users.
Air Quality	Feature AIR-1	Dust Control . Dust control measures would be included in the Storm Water Pollution Prevention Plan (SWPPP) and implemented to minimize construction impacts to existing communities. The plan would incorporate measures such as sprinkling, speed limits, transport of materials, and timely revegetation of disturbed areas as needed, as well as posting a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints and at the Bay Area Air Quality Management District regarding compliance with applicable regulations. Water or dust palliative would be applied to the site and equipment as often as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emissions or at the ROW line, depending on air pollution control district and air quality management district regulations and local ordinances.
Air Quality	Feature AIR-2	Idling and Access Points. Idling times would be minimized either by shutting off equipment 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 California Code of Regulations). Clear signage would be provided for construction workers at all access points. Construction activities involving the extended idling of diesel equipment or vehicles would be prohibited, to the extent feasible.

Table 2-2	Project Features Summary
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Resource Area	Project Feature ID	Project Feature		
Air Quality	Feature AIR-3	Maintaining Construction Equipment and Vehicles. All construction equipment and vehicles would be maintained and properly tuned in accordance with manufacturer's specifications. All equipment would be checked by a certified mechanic and determined to be running in proper condition prior to operation.		
Air Quality	Feature AIR-4	Contractor Air Quality Compliance. The construction contractor must comply with the Caltrans Standard Specifications in Section 14-9, which require contractor compliance with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.		
Biological Resources – Natural Communities	Feature BIO-1	Seasonal Avoidance. Construction below top of bank and within the wetted portions of the channel would be constrained to occur during the summer season, during periods of low flows (starting June 1 and ending October 15). Work in the creek would be limited to when the creek is dry or mostly dry, as much as practicable, or when the creek diversion has been installed. Caltrans would complete advanced tree removal activities outside of the bird nesting season (February 1 through September 30) at the bridge locations.		
Biological Resources – Natural Communities	Feature BIO-2	Night Work . Nighttime work would be avoided to the maximum extent practicable. If nighttime work is required, all lighting would be directed downwards and towards the active construction area(s).		
Biological Resources – Animal and Plant Species	Feature BIO-3	Approved Biologist. The names and qualifications of the proposed biological monitor(s) would be submitted to the U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), and California Department of Fish and Wildlife (CDFW) for approval at least 30 calendar days prior to the start of construction.		
		a. Prior to working on the site, the approved biomonitor(s) would submit a letter to the USFWS, NMFS, and CDFW verifying that they possess a copy of the Biological Opinion(s) (BO[s]), Streambed Alteration Agreement, and other relevant permits for the Project, and understand the Terms and Conditions.		
		 b. The biomonitor(s) would keep a copy of the BO(s), Streambed Alteration Agreement, and the relevant permit materials in their possession when onsite. 		
		c. The biomonitor(s) would be onsite during all work that could reasonably result in take of special status wildlife.		
		d. The biomonitor(s) would have the authority to stop work that may result in the unauthorized take of special status species, in coordination with the Caltrans Resident Engineer (RE). If the biomonitor(s) exercises this authority, the USFWS or CDFW would be notified by telephone and email within one working day.		

Resource Area	Project Feature ID	Project Feature		
Biological Resources – Animal and	Feature BIO-4	Resident Engineer. At least 30 calendar days prior to ground disturbance, the RE's name and telephone number would be provided to the USFWS, NMFS, and CDFW.		
Plant Species		a. The RE would send a letter to the USFWS, NMFS, and CDFW verifying that they possess a copy of the BO(s) and Streambed Alteration Agreement and understands the Terms and Conditions.		
		 b. The RE would maintain a copy of the BO(s) and other relevant permits onsite whenever construction is taking place. 		
Biological Resources – Animal and Plant Species	Feature BIO-5	Worker Environmental Awareness Training. Prior to ground- disturbing activities, an agency approved biologist would conduct an education program for all construction personnel. At a minimum, the training would include a description of special- status species, migratory birds, and their habitats; describe how the species might be encountered within the Project limits; explain the status of these species and protection under the federal and state regulations; list the measures to be implemented to conserve listed species and their habitats as they relate to the work site; define the boundaries within which construction may occur; and explain how to best avoid the incidental take of listed species. The field meeting would include topics on species identification, life history, descriptions, and habitat requirements during various life stages. Emphasis would be placed on the importance of the habitat and life stage requirements within the context of Project maps showing areas where avoidance and minimization measures are to be implemented. The program would include an explanation of applicable federal and state laws protecting endangered species as well as the importance of compliance with Caltrans and various resource agency conditions.		
Biological Resources – Animal and Plant Species	Feature BIO-6	Migratory Birds and Nest Avoidance. During the nesting season (February 1 through September 30), pre-construction surveys for nesting birds would be conducted by a qualified biologist no more than 72 hours prior to the start of construction activities. If work is to occur within 300 feet of active raptor nests or 50 feet of active non-game bird nests, a non-disturbance buffer would be established at a distance sufficient to minimize disturbance based on the nest location, topography, cover, the species' sensitivity to disturbance, and the intensity/type of potential disturbance. To minimize and avoid take of migratory birds, their nests, and their young, Caltrans would conduct vegetation and tree trimming outside of the bird nesting season, prior to construction. This work would be limited to vegetation and trees that are within the Project footprint.		

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Resource Area	Project Feature ID	Project Feature
Biological Resources – Animal and Plant Species	Feature BIO-7	Biological Monitoring. At least 30 days prior to the onset of activities, the name(s) and credentials of biologists who would conduct preconstruction surveys and relocation activities for the listed species would be submitted to the USFWS, NMFS, and CDFW. No Project activities would begin until the proponent has received written approval from the agencies that he/she is approved to conduct the work. An agency-approved biologist would be present onsite during the construction of any erosion control fencing or cofferdams, and prior to and during the dewatering activities to monitor for the special-status species. Through communication with the RE or their designee, the agency approved biologist may stop work if deemed necessary for any reason to protect listed species and would advise the RE or designee on how to proceed accordingly.
Biological Resources – Animal and Plant Species	Feature BIO-8	Permitting Agency Site Access. If requested by any state or federal agency before, during, or upon completion of construction activities, Caltrans would allow agency personnel access into the Project footprint to inspect the Project site and Project activities.
Biological Resources – Animal and Plant Species	Feature BIO-9	Vegetation Removal. Vegetation would be cleared only where necessary and would be cut above soil level except in areas that would be excavated for roadway construction. This would allow plants that reproduce vegetatively to resprout after construction. All clearing and grubbing of woody vegetation would occur by hand or by using construction equipment such as backhoes and excavators.
Biological Resources – Invasive Species	Feature BIO-10	Erosion Control Matting. To avoid wildlife entrapment, plastic monofilament netting or similar material would not be used. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.
Biological Resources – Invasive Species	Feature BIO-11	Replant, Reseed, and Restore Disturbed Areas. Caltrans would restore temporarily disturbed areas to the maximum extent practicable. Exposed slopes and bare ground would be reseeded with native grasses and shrubs to stabilize and prevent erosion. Where disturbance includes the removal of trees and woody shrubs, native or climate adapted species would be replanted, based on the local species composition.

Resource Area	Project Feature ID	Project Feature		
Biological Resources – Invasive Species	Feature BIO-12	Reduce Spread of Invasive Species. To reduce the spread of invasive, nonnative plant species and minimize the potential decrease of palatable vegetation for wildlife species, Caltrans would comply with Executive Order 13112. This order is provided to prevent the introduction of invasive species and provide for their control in order to minimize the economic, ecological, and human health effects associated with their spread. In the event that noxious weeds are disturbed or removed during construction-related activities, the contractor would be required to contain the plant material associated with these noxious weeds and dispose of them offsite, in a manner that would not promote the spread of the species. The contractor would be responsible for obtaining all permits, licenses and environmental clearances for properly disposing of materials. Areas subject to noxious weed removal or disturbance would be replanted with fast-growing native grasses or a native erosion control seed mixture. Where seeding is not practical, the target areas within the Project limit would be covered to the extent practicable with heavy black plastic solarization material until the end of the Project.		
Cultural Resources	Feature CULT-1	Discovery of Cultural Resources. If cultural materials are discovered during construction, all earth-moving activities within and around the immediate discovery area would be diverted until a Caltrans qualified archaeologist can assess the nature and significance of the find.		
Cultural Resources	Feature CULT-2	Discovery of Human Remains. If remains are discovered during excavation, all work within 60 feet of the discovery would halt and Caltrans' Cultural Resource Studies office would be called. Staff from Caltrans' District 4 Office of Cultural Resources Studies would assess the remains and, if determined human, would contact the County Coroner as per Public Resources Code (PRC) Sections 5097.98, 5097.99, and 7050.5 of the California Health and Safety Code. If the Coroner determines the remains to be Native American, the Coroner would contact the Native American Heritage Commission who would then assign and notify a Most Likely Descendant. Caltrans would consult with the Most Likely Descendant on respectful treatment and reburial of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.		
Greenhouse gas emissions	Feature GHG-1	Waste Reduction . If practicable, nonhazardous waste and excess material would be recycled. If recycling is not practicable, the material would be disposed of appropriately.		
Greenhouse gas emissions	Feature GHG-2	Energy Reduction. Solar sign boards would be used when feasible.		
Hazards and Hazardous Materials	Feature HAZ-1	Aerially Deposited Lead Work Plan. A work plan for aerially deposited lead, if required, would be prepared during the design (Plans, Specifications and Estimate) phase.		
Hazards and Hazardous Materials	Feature HAZ-2	Hazardous Materials Incident Contingency Plan. A hazardous materials incident contingency plan would be prepared to report, contain, and mitigate roadway spills. The plan would designate a chain of command for notification, evacuation, response, and cleanup of roadway spills.		

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Resource Area	Project Feature ID	Project Feature
Hydrology and Water Quality	Feature HYD-1	Job Site Management. This practice implements effective handling, storage, usage, and disposal practices to control material pollution and manage waste at the job site before pollutants enter storm drain systems and receiving waters. This practice also recommends street sweeping and concrete waste management to minimize or eliminate the discharge of concrete waste material to the storm drain systems near the Project.
Hydrology and Water Quality	Feature HYD-2	Tracking Control Practices. Tracking control practices would be implemented during Project construction. These measures include temporarily stabilizing the soils located at the construction ingress and egress points; regularly watering the access road to minimize windborne dust; truck and tire washing; and street sweeping and vacuuming.
Hydrology and Water Quality	Feature HYD-3	 Waste Management and Materials Pollution Control. Waste management and materials pollution control practices would be implemented on this Project. These measures include stockpile management; concrete waste management; material delivery and storage; spill prevention and control; solid waste management; hazardous waste and contaminated soil management; and sanitary/septic and liquid waste management. Stockpile management consists of carefully storing construction materials, including by covering storage piles with plastic tarps during periods of inactivity. This practice reduces or eliminates air and stormwater pollution from stockpiles of soil and paving materials. Concrete waste management practices include procedures and practices to eliminate or minimize the discharge of concrete slurry into the storm drain system. Concrete slurry waste handling procedures, such as an on-site concrete washout facility, transit truck washout procedures, and procedures for removal of temporary concrete washout facilities, would be completed during Project construction.
Hydrology and Water Quality	Feature HYD-4	Soil Stabilization. Soil stabilization practices would be conducted during this Project and include the preservation of existing vegetation, slope protection measures, and slope interrupter devices.
Hydrology and Water Quality	Feature HYD-5	Wind Erosion Controls. Hydraulic mulch and temporary covers would be placed on areas disturbed during construction to minimize the extent of windborne pollutants, like dust, from entering adjacent waterways.
Noise	Feature NOI-1	Idling of Internal Combustion Engines. Unnecessary idling of internal combustion engines would be avoided within 100 feet of sensitive receptors.
Noise	Feature NOI-2	Maintaining Internal Combustion Engines. All internal combustion engines would be maintained properly to minimize noise generation.

Resource Area	Project Feature ID	Project Feature
Transportation and Traffic	Feature TRA-1	Traffic Management Plan (TMP). A TMP would be developed by Caltrans. The TMP would include elements such as haul routes, traffic controls to minimize speeds and congestion, flag workers, and phasing, to reduce impacts to local residents as feasible and maintain access for police, fire, and medical services in the local area. Temporary pedestrian and bicyclist access would be provided during construction.
Utilities and Service Systems	Feature UTIL-1	Notify Utility Owners of Construction Schedule to Protect Utilities. All affected utility companies would be notified of construction schedules for Project work so that they can relocate such utilities or provide special instructions for utility protection, if needed, and minimize disruption of utility service.
Utilities and Service Systems	Feature UTIL-2	Trash Management. All food-related trash items such as wrappers, cans, bottles, and food scraps would be disposed of in closed containers and removed at least once daily from the Project limits. A Trash Reduction System would also be developed and implemented per Caltrans Statewide National Pollution Discharge Elimination System Permit and San Francisco Bay Regional Water Quality Control Board Cease and Desist Order.

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Chapter 3 California Environmental Quality Act Evaluation

The following discussions evaluate potential environmental impacts related to the CEQA checklist to comply with State CEQA Guidelines (Title 14 California Code of Regulations, Division 6, Chapter 3, Section 15091). The environmental analysis considers potential impacts of the proposed Project, as detailed in Chapter 2.

A. Environmental Factors Potentially Affected

As part of the scoping and environmental analysis carried out for the proposed Project, the following environmental issues were considered, but no impacts were identified: agricultural and forest resources, air quality, cultural resources, energy, geology/soils, land use planning, mineral resources, population and housing, public services, recreation, and tribal cultural resources. The environmental factors checked below would be potentially affected by this Project. Further analysis of these environmental factors is included in this chapter.

Х	Aesthetics		Agriculture and Forestry		Air Quality
Х	Biological Resources		Cultural Resources		Energy
	Geology/Soils	Х	Greenhouse Gas Emissions	х	Hazards and Hazardous Materials
Х	Hydrology/Water Quality		Land Use/Planning		Mineral Resources
Х	Noise		Population/Housing		Public Services
	Recreation	Х	Transportation/Traffic		Tribal Cultural Resources
х	Utilities/Service Systems	Х	Wildfire	Х	Mandatory Findings of Significance

B. Determination

On the basis of this initial evaluation:

X	I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.				
	I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.				
	I find that the proposed Project MAY have a significant effect on the ENVIRONMENTAL IMPACT REPORT is required.	e environment, and an			
	I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.				
	I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.				
Signatu	Signature: Lindsay Wird Date:				
Printed Name: Lindsay Vivian 10/15/2					

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CEQA Environmental Checklist

This checklist (presented at the beginning of each resource section below in the form of a table listing the pertinent questions applicable to the resource and four columns of check boxes where the degree of impact is indicated) identifies physical, biological, social, and economic factors that might be affected by the proposed Project. In many cases, background studies performed in connection with the Project indicate that there are no impacts to a particular resource. A "no impact" answer in the last column reflects this determination. The words "significant" and "significance" used throughout the checklist are related to CEQA impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

Project Features, which may include both design elements of this Project and standardized measures (such as BMPs) that are applied to all or most Caltrans projects, and measures included in the Standard Plans and Specifications or as Standard Special Provisions, are considered to be integral to the Project and are considered prior to any significance determinations. A list of the Project Features is presented in Table 2-2, and the Project's AMMs are presented in the subsections below and compiled in Appendix D.

Aesthetics

I. AESTHETICS: Except as provided in Public Resources Code Section 21099, would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				Х
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				Х
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			х	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			х	

SR 29 within the Project limits is a conventional, divided four-lane highway. The Project limits are predominately rural in character with views to adjacent vineyards, and are bordered on both sides by residential, commercial, and agricultural uses. Both the Napa Valley Vine Trail and Wine Train run parallel to the roadway throughout the Project limits. SR 29 is a major tourist and recreational route due to the numerous wineries in Napa County, but is not classified as a Landscaped Freeway or a Designated State Scenic Highway.

A *Scenic Resource Evaluation and Visual Impact Assessment (VIA)* (Caltrans 2019e) was prepared to assess the Project's potential effects to visual resources in the area. The VIA concluded that the Project elements would be compatible with the existing visual character and quality of the corridor and should have no adverse effect on visual resources.

a, b) <u>No Impact</u>

The Project corridor does not contain scenic vistas nor is it classified as a Landscaped Freeway or a Designated State Scenic Highway. Therefore, the Project would have no impact on scenic vistas or damage scenic resources within a state scenic highway.

c) <u>Less Than Significant Impact</u>

The Project would not substantially degrade the existing visual character or quality of public view of the site and its surroundings. The Project would be compatible with

the existing visual character and quality of the corridor despite temporary construction activities. Although there would be temporary visual impacts related to construction equipment use and staging, fencing, K-rails, and tree removals which would temporarily decrease the scenic views of passerby travelers on SR 29, the impacts would be minimal during construction activities because a passerby traveler's focus would be ahead on the road. The Project elements to be replaced or upgraded would be visually similar to the existing built features; for example, the existing culvert wing walls would be replaced with new similar wing walls. The mural at street level of the California Drive Undercrossing Bridge would not be impacted.

At the California Drive Undercrossing Bridge, seven trees including five redwood trees, one valley oak, and one California black oak would be removed. All trees are located adjacent to the highway in the northbound direction of SR 29. These trees require removal to accommodate bridge widening. Removal of the trees would be visually noticeable, but the overall visual character of the undercrossing would not be substantially degraded because the majority of existing trees would be unaffected (Appendix F, Figure 4-7: Trees within the California Drive Undercrossing Bridge Project Footprint and BSA). No trees are proposed to be removed at Perfume Creek or Dry Creek. With implementation of Project Features AES-1 through AES-5 and BIO-11 (Replant, Reseed and Restore Disturbed Areas) listed in Table 2-2, and AMM AES-1, the Project would result in a less than significant impact.

d) Less Than Significant Impact

Nighttime construction activities may occur and may add new temporary sources of light and glare for residents, businesses, and local motorists along the Project corridor. New sources of light would be temporary, only employed during the construction period, and would not contribute to long-term light impacts. With implementation of Project Feature AES-6, new sources of light would not adversely affect nighttime views, and the Project would have a less than significant impact.

Avoidance and Minimization Measures

AMM AES-1: Tree Removal. The seven trees removed during construction will be replaced as required as per Caltrans policies. Trees removed will be replanted where feasible. Irrigation damaged and/or removed as a result of the Project will require repair/replacement as part of the Project.

Agriculture and Forestry

II. AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				х
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				Х
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				x
d) Result in the loss of forest land or conversion of forest land to non-forest use?				Х
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				Х

The Project limits are adjacent to and encompass agricultural lands; however, the Project footprint does not include Prime, Unique, or Farmland of State Importance or forest land. The proposed Project would not convert farmland to a non-agricultural use, or otherwise affect farmland, timberland, or land under Williamson Act contracts.

a, b, c, d, e) <u>No Impact</u>

The proposed Project would have no impact on agriculture and forest resources. All construction-related work would remain within Caltrans' ROW or TCEs and would therefore have no effect on converting farmland to non-agricultural use or conversion of forest land to non-forest use. There is no land under the Williamson Act in the Project footprint, nor is there land zoned as forest land or timberland.

Air Quality

III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				Х
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?				х
c) Expose sensitive receptors to substantial pollutant concentrations?				Х
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				Х

Caltrans investigated potential impacts to air quality from the proposed Project and prepared a *Technical Memorandum*, *Air/Noise Analysis* (April 2019).

The Bay Area Air Quality Management District is the regulatory agency of the San Francisco Bay Area Air Basin (SFBAAB) in which the Project is located. The SFBAAB is in federal and state nonattainment for ozone and fine particulate matter 2.5 micrometers (PM_{2.5}) and in state nonattainment for particulate matter 10 micrometers (PM₁₀). It is in attainment or unclassified for other state and federal air quality standards.

a, b, c, d) <u>No Impact</u>

The Project is exempt from the requirement to determine conformity per 40 Code of Federal Regulations (CFR) 93.126 which covers pavement resurfacing and rehabilitation projects; therefore, an Air Quality Study is not required. The Project would not interfere with timely implementation of transportation control measures identified in the applicable State Implementation Plan, would not result in a cumulatively considerable net increase in any criteria pollutant, would not expose sensitive receptors to substantial pollutant concentrations, and would not create objectionable odors.

Air pollutants associated with construction are expected to be short-term in duration. Trucks and construction equipment emit hydrocarbons, oxides of nitrogen, carbon monoxide, and particulates. Most Project-related pollution during construction would consist of wind-blown dust generated by excavation, grading, hauling and various other activities. The effects from these activities would vary from day to day as construction progresses. Short-term air quality effects during the Project's construction period would be addressed by Caltrans Special Provision and Standard Specification 14-9.02. The Special Provisions and Standard Specifications (Project Feature AIR-1) would be implemented to minimize or eliminate dust during construction through the application of water or dust palliatives. Other Caltrans Special Provisions and Standard Specifications would be implemented to reduce construction equipment emissions (Project Features AIR-2, AIR-3 and AIR-4). With implementation of these measures, the Project would have no impacts to air quality.

Biological Resources

IV. BIOLOGICAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service, or NOAA Fisheries?			х	
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?			х	
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				х
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				х
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				Х
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				х

Caltrans has prepared a Natural Environment Study (NES), an Addendum to the NES, and a Biological Assessment for the Project (Caltrans 2020a, 2020d and 2020g). The following text summarizes the information presented in the NES.

The Biological Study Area (BSA) includes the area surveyed to identify, evaluate, and quantify the natural resource potentially affected by the Project. A BSA was established for each bridge location, consisting of the entire Project footprint surrounded by a buffer distance of 50 feet to account for the direct and indirect effects that could result from Project activities. Appendix F presents the NES figures delineating the BSA for the three bridges evaluated in this section.

The BSA contains four types of vegetation including Riparian, Ruderal, Developed Land/Agriculture, and Landscape/Ornamental. The BSA was also found to support 0.25 acre of other waters of the U.S. but did not contain any wetlands.

A regional list of special-status wildlife and plant species was compiled using databases from the California Native Plant Society, California Department of Fish and Wildlife (CDFW), United State Fish and Wildlife Service (USFWS), and the National Marine Fisheries Service (NMFS). Each special-status wildlife and plant species on these regional lists was evaluated to determine its potential to occur within the Project BSA. The NES summarizes the special-status plant species and animal species with potential to occur within the BSA (Caltrans 2020a).

a) Less Than Significant Impact

SPECIAL-STATUS PLANT SPECIES

Twenty-seven special status plant species were initially reviewed for potential to occur within the study area (Appendix H presents the full list). Of those twenty-seven, only three species were found to potentially occur within the BSA: the Jepson's coyote-thistle (*Eryngium jepsonii*), the Sanford's arrowhead (*Sagittaria sanfordii*), and the Jepson's leptosiphon (*Leptosiphone jepsonii*). Field surveys found no suitable habitat for all three species, and floristic surveys confirmed no presence of the three species. Therefore, it is anticipated that no individual plants, populations, sub-populations, or suitable habitat would be disturbed, destroyed, or directly removed by construction activities.

SPECIAL-STATUS WILDLIFE SPECIES

California Red-Legged Frog

The California red-legged frog (*Rana draytonii*; CRLF) is a federally threatened species and a State Species of Special Concern. No CRLF were observed in the BSA during field surveys on March 13, April 18, June 25, July 10, and July 25, 2019. There are no recorded California Natural Diversity Database (CNDDB) occurrences within 5 miles of the BSA. The Project is also outside of CRLF critical habitat and any designated recovery units.

The riparian corridors within the three bridge Project limits are not expected to be used for breeding but could be used for dispersal and may provide non-breeding habitat for frogs that migrate from nearby breeding sites. Dispersal habitat features such as large rocks, downed trees, logs, and moderately dense vegetation are present in some areas of the BSA and could provide cover for non-breeding frogs.

Construction activities such as grading the creek channels, installing the creek diversion systems, vegetation removal, equipment staging, and creating access areas

could potentially result in take in the form of harassment, injury, or death of individual frogs from ground disturbance, inadvertent entrapment, or temporary disruptions of normal behavior. Construction activities would temporarily prevent the frog from dispersing and taking refuge within the work area.

The Project would temporarily impact 0.63 acre of upland dispersal habitat and 0.05 acre of aquatic dispersal habitat. The Project would also result in 0.16 acre of permanent impacts to aquatic dispersal habitat and 0.3 acre of impacts to upland dispersal habitat. Restoring disturbed locations after construction ends to preconstruction conditions as detailed in Project Feature BIO-11 in Table 2-2 would reestablish the baseline aquatic, riparian, and upland habitat values for the frog within one year of Project completion.

Avoidance and Minimization Measures for California Red-Legged Frog

AMM BIO-1: Pre-Construction CRLF Surveys. Pre-construction surveys for the CRLF will be conducted by a USFWS-approved biologist no more than 20 calendar days prior to any initial ground disturbance and immediately prior to ground-disturbing activities (including vegetation removal) beyond the existing pavement. These efforts will consist of walking surveys of the Project limits and, if possible, accessible adjacent areas within at least 50 feet of the Project limits. The USFWS-approved biologist will investigate potential cover sites when it is feasible and safe to do so. This includes thorough investigation of mammal burrows, rocky outcrops, appropriately sized soil cracks, tree cavities, and debris. Native vertebrates found in the cover sites within the Project limits will be documented and relocated to an adequate cover site in the vicinity. Safety permitting, the USFWS-approved biologist(s) will investigate areas of disturbed soil for signs of frogs within 30 minutes following initial disturbance of the given area.

AMM BIO-2: Prevention of Entrapment. To prevent the inadvertent entrapment of the CRLF, all excavated, steep-walled holes or trenches more than 1 foot deep will be covered at the close of each working day by plywood or similar materials. If it is not feasible to cover an excavation, one or more escape ramps constructed of earthen fill or wooden planks will be installed. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, the USFWS-approved biologist will immediately place escape ramps or other appropriate structures to allow the animal to escape, or the USFWS will be contacted by telephone for guidance. The USFWS will be notified of the incident by telephone and electronic mail within one working day.

AMM BIO-3: Protocol for Species Relocation and Reporting. If CRLF are encountered in the immediate work area the following procedures will be followed:

- a. The Resident Engineer (RE) and USFWS-approved biologist will be immediately informed. If a CRLF gains access to a construction zone, work will be halted immediately within 50 feet until the animal leaves the construction zone or is relocated by the USFWS-approved biologist. The captured frog will be released within appropriate habitat outside of the construction area within the creek's riparian corridor. The appropriate release site will be determined by the USFWS-approved biologist.
- b. The USFWS-approved biologist will have the authority to halt work through coordination with the RE if a CRLF is discovered within the Project footprint. The RE will ensure construction activities remain suspended in any construction area where the qualified biologist has determined that a potential take of the CRLF could occur. Work will resume once the animal leaves the site voluntarily, is removed by the biologist(s) to a release site using USFWS-approved handling techniques, or it is determined that the CRLF is not being harassed by construction activities. If take occurs, the biologist(s) will notify the USFWS contact by telephone and electronic mail within one working day.
- c. The biological monitor(s) will take precautions to prevent introduction of amphibian diseases in accordance with the Revised Guidance on Site Assessments and Field Surveys for the CRLF (USFWS 2005).
- d. Injured frogs will be cared for by a USFWS-approved biologist or a licensed veterinarian, if possible. Dead frogs will be preserved according to standard museum techniques and held in a secure location. The USFWS will be notified within one working day of the discovery of a death or an injury of frog(s) resulting from Project-related activities or if a CRLF is observed at the Project site. Notification will include the date, time, and location of the incident or of the finding of a dead or injured animal clearly indicated on a United States Geological Survey 7.5-minute quadrangle and other maps at a finer scale, as requested by the USFWS, and any other pertinent information.
- e. Caltrans will submit post-construction compliance reports prepared by the biologist to the USFWS within 60 calendar days following completion of Project activities or within 60 calendar days of any break in construction activity lasting more than 60 calendar days. This report will detail (1) dates that relevant Project

activities occurred; (2) pertinent information concerning the success of the Project in implementing AMMs for listed species; (3) an explanation of failure to meet such measures, if any; (4) known Project effects on the CRLF, if any; (5) occurrences of incidental take of listed species, if any; (6) documentation of employee environmental education; and (7) other pertinent information

California Freshwater Shrimp

The California freshwater shrimp (CFS; *Syncaris pacifica*) is a federally and state endangered species. The species has been observed 17 miles southeast and 7 miles northeast of the Dry Creek BSA. However, high quality suitable habitat for the shrimp was identified within the Dry Creek Bridge BSA. Therefore, construction activities within the site could result in a potential take in the form of harassment, injury, or death of individual CFS from ground disturbance, inadvertent entrapment, or temporary disruptions of normal behavior. As a result, Caltrans anticipates obtaining an Incidental Take Permit from CDFW for the Project.

The Project will temporarily impact 0.14 acre of aquatic habitat. The Project will also result in 0.06 acre of permanent impacts. Restoring disturbed locations after construction ends to preconstruction conditions as detailed in Project Feature BIO-11 will reestablish the baseline aquatic and riparian habitat values for the shrimp within one year of Project completion.

Based on the above, Caltrans anticipates that compensatory mitigation for the CFS will not be required. Caltrans will incorporate the general Project Features BIO-1 through BIO-12 listed in Table 2-2 and AMMs, below. With the implementation of Project Features and AMMs for the CFS, the impact will be less than significant.

Avoidance and Minimization Measures for California Freshwater Shrimp

AMM BIO-4: Prevention of Shrimp Entrapment. Shrimp are difficult to detect, so their presence will be assumed for in-water work areas. These areas will be carefully isolated and all shrimp, if found, will be relocated to an area outside the Project footprint. Prior to installation of the temporary creek diversion system, a USFWS-approved biologist will install one-eighth inch mesh block nets outside Project impact areas and across the creek at a minimum of 20 feet above and below the dewatering limits to isolate the work area. Then, the biologist will remove all shrimp within the block nets using a one-eighth inch seine and/or dip nets, focusing on overhanging vegetation submerged along the creek bank. Shrimp will be relocated to suitable habitat downstream of the dewatering system. Then the cofferdams will be installed

and the block nets removed, all monitored by the biologist. Pump intakes will be completely screened with wire mesh no larger than 0.2 inch. The pumps will be fitted with anti-entrapment device(s) to prevent shrimp from being drawn into them or impinged on intake screening. The USFWS-approved biologist will remain on-site and survey for shrimp and monitor turbidity levels within the cofferdams during the active dewatering and will capture and relocate shrimp as necessary.

Central California Coast Distinct Population Segment Steelhead

The Central California Coast (CCC) distinct population segment (DPS) steelhead (*Oncorhynchus mykiss irideus*) is a federally threatened species. The CCC DPS consists of all steelhead runs from the Russian River in Sonoma County south to Aptos Creek in Santa Cruz County, and includes all steelhead spawning in streams that flow into the San Francisco Bay. There are no CNDDB occurrences recorded within 5 miles of the three bridges. However, the species has been observed 7.7 miles downstream of Dry Creek Bridge. Dry Creek Bridge has adequate habitat to support steelhead at this location, as well as habitat connectivity with the Napa River.

The proposed Project would result in direct temporary impacts on critical habitat for CCC steelhead within the Project limits but is not likely to result in take of CCC steelhead. Potential impacts to CCC steelhead would result from installing the temporary creek diversion system, dewatering Dry Creek, salvage and relocation activities, removing vegetation from within the creek, and an increase in construction-related noise. Noise levels from Project activities are not anticipated to rise to the level of mortality for fish. However, any CCC steelhead within the BSA during construction activities, specifically creek dewatering, could be harmed or killed as a result of these activities. The NMFS-approved biologist would need to relocate CCC steelhead if they are in danger of injury or mortality.

Caltrans does not anticipate compensatory mitigation for Project-related impacts for the CCC steelhead or its habitat. Caltrans would incorporate the general Project Features BIO-1 through BIO-12 listed in Table 2-2 and AMMs below, and the impact would be less than significant.

Avoidance and Minimization Measures for CCC DPS Steelhead

As required under the FESA, Caltrans would implement reasonable and prudent measures to minimize and avoid potential take of the CCC DPS steelhead. The following species-specific AMMs would be used to minimize Project impacts on steelhead:

AMM BIO-5: Prevention of Entrapment. Steelhead juveniles are difficult to detect; thus Caltrans is assuming presence for all in-water work areas within bed and banks of Dry Creek during the wet season. Thus, construction will occur during the typical dry season of June 1 to October 15. If flows or isolated pools are present at the beginning of the work window, Caltrans will work to reduce the take of steelhead by isolating all in-water work areas and capturing and relocating all fish. Capture and relocation efforts will be conducted as follows, or as agreed upon in the Fish Relocation Plan; a NMFS-approved biologist will install one-eighth inch block nets across the creek (to limit the number of fish from entering the cofferdam) a minimum of 20 feet above and below the locations proposed for dewatering to prevent steelhead moving into what would be the work area. Then, the biologist will capture and relocate all steelhead within the nets using a one-eighth inch seine, dip nets, and/or electroshocking. All captured steelhead will be placed in buckets containing creek water and then relocated to suitable habitat downstream of the dewatering system. All non-native fish, amphibians and crustaceans will not be returned to Dry Creek but will be euthanized and disposed of. After the initial clearance of the dewatered construction area, the coffer dams will be installed with monitoring by the biologist. The block nets will be removed once the cofferdams are installed and functioning and steelhead can no longer enter the work area. The pump to be used for dewatering the work area will be completely screened with wire mesh no larger than 0.2 inch or will be buried in a gravel filled sump. The pumps will be fitted with anti-entrapment device(s) to prevent steelhead from being drawn into them or impinged on intake screening. The NMFS-approved biologist will remain on-site and survey for steelhead and monitor turbidity levels within the work area during the active dewatering, and will capture and relocate steelhead as necessary.

AMM BIO-6: Fish Relocation Plan. A Fish Relocation Plan for steelhead will be developed and will be submitted to NMFS for approval 30 days prior to Project construction based on the criteria outlined above (under AMM BIO-5) or as negotiated with appropriate state and federal agencies. The Fish Relocation Plan will identify specific methods and equipment for isolation of work areas, capture and handling of individual fish, and a sequence of relocation steps. Suitable habitat for relocation downstream of the action area will be identified in the Fish Relocation Plan.

AMM BIO-7: Construction Behind Cofferdams. All work in aquatic habitat within Dry Creek will take place behind cofferdams in dewatered areas. Cofferdams will be used to isolate the work areas from Dry Creek during construction and significantly

reduce potential construction effects and stressors, such as noise and vibration, from steelhead and other fishes. Cofferdams will be designed and constructed to isolate work along each respective left and right bank of the creek from the central thalweg, avoiding disturbance of core habitat areas in the central part of the creek and allowing tidal flows to easily pass through the Project limits.

AMM BIO-8: In-water Work Windows. All work in aquatic habitat for steelhead and other fishes within Dry Creek will take place from June 1 to October 15 when the most sensitive life history stages of steelhead are not present in the action area. Adult spawning takes place November – February and juvenile smolt outmigration takes place March – May. The in-water work window will also avoid having construction disturbance in Dry Creek when most rainfall typically occurs, avoiding impacts to water quality and challenges to the cofferdams by increased flows that occur during rain events.

Foothill Yellow-Legged Frog (FYLF)

The foothill yellow-legged frog (FYLF; *Rana boylii*) is a State Species of Special Concern. Presence of the species within the BSA has been inferred based on an occurrence of the species within the creek corridor at the California Drive Undercrossing Bridge. This is a record from 1955, and a habitat assessment and surveys were conducted within the BSA in 2019 (March 13, April 18, June 25, July 10 and July 25). Based on these surveys, there is a low potential for FYLF to occur within the BSA and Project footprint. Therefore, the Project would have a less than significant impact on FYLF or its habitat. Caltrans would incorporate the general Project Features BIO-1 through BIO-12 listed in Table 2-2.

Mammals

The pallid bad (*Antrozous pallidus*) and Townsend's big-eared bat (*Corynorhinus townsendii*) are both State Species of Special Concern. Evidence of bat roosting was observed underneath Dry Creek Bridge. Bat droppings (guano) were observed accumulated on the ground below the expansion joints where bats may roost. The riparian habitat at Dry Creek and Perfume Creek may provide suitable foraging habitat for bats. This habitat may be affected by vegetation removal and bridge widening activities. There is a potential for bats to roost within or adjacent to the BSA; however, with seasonal avoidance of tree removal and preconstruction bat surveys, impacts to roosting bats would be less than significant.

Avoidance and Minimization Measures for Mammals

AMM BIO-9: Avoidance of Bat Roosts. Existing roosts should be accommodated to the extent feasible while maintaining the safety, operation, maintenance, and inspection aspects of the structure.

- a. Impacts and interactions with the species should be avoided whenever possible through timing of work, method selection, and retention of features that provide naturalized habitat.
- b. If avoidance is not possible then impacts should be minimized by careful planning of activities to complement the life history of the animal. Measures might include items such as temporary humane exclusions at appropriate times of year to avoid take and the retention of portions of the features that provide naturalized habitat.
- c. Where appropriate, measures to minimize accumulation of guano from existing roosts and to allow inspection without disturbance of the bats should be incorporated into projects.

Migratory Birds and Raptors

Common migratory bird species were observed flying overhead within the BSA. A swallow nest and two chicks were observed under the California Drive Undercrossing Bridge on July 25, 2019. Additionally, remnants of swallow and phoebe nests were found at all three bridge locations. There is a potential for the Project to result in temporary impacts on migratory birds through tree removal at California Drive Undercrossing Bridge, and to swallows during construction at the other bridges where swallow nests have been observed in the past. With the following AMMs, Caltrans would have a less than significant impact on migratory birds.

Avoidance and Minimization Measures for Migratory Birds and Raptors

AMM BIO-10: **Bird Nesting Surveys.** A biologist (s) will conduct pre-construction bird nesting surveys prior to the beginning of construction. Except for the nests of listed bird species and eagles, inactive nests will be removed to deter birds from re-establishing nests within the Project limits. Caltrans will remove unoccupied bird nests during the non-nesting season (October 1 to January 31) prior to or during construction or during the nesting season after being deemed inactive by the USFWS-approved biologist.

AMM BIO-11: Exclusion Methods. Exclusionary methods will be used to prevent migratory birds from nesting and roosting within the BSA (February 1 to September 30).

AMM BIO-12: Migratory Bird and Nest Avoidance. If active nests are present within the Project limits, work within 50 feet of the nest of passerine species or 300 feet of raptor species will be avoided and monitored.

b) <u>Less Than Significant Impact</u>

No tree removal is anticipated at Dry Creek Bridge or Perfume Creek Bridge. A total of seven trees are anticipated to be removed from the northbound side of the Project footprint at the California Drive Undercrossing Bridge. These trees include five redwoods (*Sequoiadendron giganteum*), one valley oak (*Quercus lobata*), and one California black oak (*Quercus kelloggii*). Tree removal at California Drive Undercrossing would not require compensatory mitigation. Revegetation at this location would be based on recommendations from the Caltrans Division of Landscape Architecture. There would be a less than significant impact.

c) <u>No Impact</u>

None of the Project locations were found to encompass wetlands. There would be no impact to wetland environments.

d) <u>No Impact</u>

The Project would not construct any new barriers to wildlife movement or otherwise interfere with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites; therefore, there would be no impact.

e) <u>No Impact</u>

The Project would not conflict with any local policies or ordinances protecting biological resources; therefore, there would be no impact.

f) <u>No Impact</u>

The Project would not conflict with the provision of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan, as there are no such plans within the Project area. Thus, there would be no impact.

Cultural Resources

V. CULTURAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?				х
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				Х
c) Disturb any human remains, including those interred outside of dedicated cemeteries?				Х

Caltrans prepared a technical memorandum on cultural compliance for the Project entitled *Office of Cultural Resources Section 106 Closeout Memo for the Bridge Replacement Project at PMs 14.11/19.04 on SR 29 in Napa County, California* (December 13, 2019).

The studies for this undertaking were carried out in a manner consistent with Caltrans' regulatory responsibilities under Section 106 of the National Historic Preservation Act (36 CFR Part 800) and pursuant to the January 2014 First Amended Programmatic Agreement (PA) Among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding compliance with Section 106 of the National Historic Preservation Act, as it pertains to the Administration of the Federal Aid Highway Program in California.

Cultural studies have been undertaken by Caltrans District 4 Professionally Qualified Staff (PQS) in the Office of Cultural Resource Studies (OCRS) for the proposed Project. From these studies, as well as information from the Caltrans Cultural Resource Database, as-built plans, aerial photographs, and maps, the OCRS has determined that a Finding of No Historic Properties Affected is appropriate for this undertaking.

During focused studies completed for this Project, the PQS conducted a review of the Native American Heritage Commission's (NAHC) Sacred Lands File which returned positive results for sacred sites in the Area of Potential Effects (APE). The NAHC provided a list of tribes that may be interested in consulting on the Project from the Native American Contact list. Formal notification of local tribes began with initial

consultation letters sent out on November 14, 2018. Coordination with local tribes is ongoing.

The APE for this Project was established in three discontinuous boundaries to account for the three separate Project bridge locations. The horizontal extent of the archaeological APE includes all locations where construction activities would occur, proposed staging/access areas, clearing/grubbing areas, tree removal locations, excavation areas, and TCE locations outside of Caltrans' ROW. The vertical extent of the archaeological APE includes all areas where Project excavation would impact the subsurface.

The PQS has determined that all potential cultural resources in the APE are either not eligible for inclusion on the National Register of Historic Places (NRHP), not eligible for registration as a California Historic Landmark (CHL), or exempt from evaluation according to Attachment 4 of the PA. The three bridges subject to this Project were determined Category 5, ineligible for NRHP, and those determinations remain valid. Therefore, a Finding of No Historic Properties Affected is appropriate for this undertaking because there are no historic properties within the APE.

a, b, c) <u>No Impact</u>

All potential cultural resources in the APE are either not eligible for inclusion on the NRHP, not eligible for registration as a CHL or exempt from evaluation. Therefore, there would be no historical properties affected by this Project.

Project Features CULT-1 and CULT-2 would provide protection of cultural resources. There would be no impact.

Energy

VI. ENERGY: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				х
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				Х

a, b) <u>No Impact</u>

With standard BMPs, the Project would not produce any wasteful, inefficient, or unnecessary consumption of energy resources during Project construction and operation. The Project would not conflict with state and locals plans for renewable energy and energy efficiency. There would be no impact.

Geology/Soils

VII. GEOLOGY AND SOILS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
(i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				х
(ii) Strong seismic ground shaking?				Х
(iii) Seismic-related ground failure, including liquefaction?				Х
(iv) Landslides?				Х
b) Result in substantial soil erosion or the loss of topsoil?				Х
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				х
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				х
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				х
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				х

Caltrans investigated potential impacts to geology and soils from the proposed Project and prepared the Preliminary Geotechnical Reports (Caltrans 2016) and Paleontology and Geology Environmental Study (Caltrans 2020f). The Project is located within the northern California Coast Range province characterized by northwest-trending ridges, gently sloping hills, and intervening valleys and large elongated depressions. The Project is located in the southern part of the Napa Valley, along the northwest/southeast trending depression that drains south to San Francisco Bay via the Napa River. The ground elevation at the Project site ranges between 87 feet (California Drive) and 110 feet (SR 29) above sea level surrounded by flat ground. Geology in the surrounding area consists of Mesozoic aged metamorphic rocks of the Franciscan Complex and sedimentary rocks of the Great Valley Complex, overlain by Miocene sedimentary and volcanic rocks. Nearby faults include the West Napa Fault, Green Valley Fault, and the Rodgers Creek Fault. No active fault crosses the Project location. Earthquakes would have potential to generate very strong ground shaking in the Project locations. The Project locations would also be subject to very high susceptibility to liquefaction.

Soils within the BSA include Bale clay loam, 2 to 5 percent slopes. The Bale soils are gently sloping soils located on flood plains and low terraces. The Bale Soils consist of somewhat poorly drained soils on alluvial fans, flood plains, and low terraces. The permeability of this soil is moderate, runoff slow, with moderate shrink-swell potential, and the hazard of erosion is low.

At Dry Creek Bridge, Holocene and Pleistocene alluvial fan deposits and late Holocene younger alluvium deposits underlie the work area. The Holocene unit has a low paleontological sensitivity and the Pleistocene unit has no significant fauna. At Perfume Creek Bridge and California Drive Undercrossing Bridge, Holocene alluvial fan deposits and Holocene fined grained alluvial fan deposits underlie the work areas. These two units have low paleontological sensitivity. No further paleontological studies were necessary.

a) <u>No Impact</u>

Because the Project entails upgrades or maintenance of existing bridge structures, the Project would not impact the public due to fault rupture or other seismically induced hazards including liquefaction. Strong ground shaking may occur during an earthquake, but the Project would not directly or indirectly cause potential significant impacts due to ground shaking. The Project is not located on a geologic unit or soil that is unstable. No hazards exist due to landslides, soil erosion, soft soils, or expansive soils. The Project would have no impact.

b) <u>No Impact</u>

Work within the creek at Perfume Creek and Dry Creek would disturb soils, which could result in erosion, but soil erosion would be minimized through implementation of standard Caltrans Project Features HYD-1 through HYD-5, as described in Table 2-2. CIDH pile auguring at the California Drive Undercrossing Bridge would not expose the subsurface. With implementation of the Project Features, the Project would have no impact.

c, d, e) <u>No Impact</u>

The Project would not impact geologic or soil conditions. Soils within the Project footprint consist of Bale clay loam, which has a low hazard for erosion. There would be no increase in risk of seismic activity to the traveling public as a result of any part of this Project. There are no anticipated geologic or seismic impacts from this Project. The Project does not involve use of septic tanks or alternative waste water disposal systems. Therefore, the Project would have no impact.

f) <u>No Impact</u>

The bridges are all underlain by either artificial fill or Holocene and Pleistocene alluvium deposits. These units are not paleontologically sensitive and the Project would not impact paleontological resources.

Greenhouse Gas Emissions

VIII. GREENHOUSE GAS EMISSIONS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			х	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				х

Caltrans investigated potential impacts to greenhouse gas (GHG) emissions from the proposed Project and prepared the *Construction Greenhouse Gas Emissions Analysis technical memorandum* (March 2019). This section summarizes the findings of this review. Construction-generated GHGs includes emissions resulting from material processing by onsite construction equipment, construction workers commuting to and from the Project site, and traffic delays due to construction. The emissions would be produced at different rates throughout the Project depending on the activities involved at various phases of construction.

The analysis was focused on vehicle-emitted carbon dioxide (CO₂) as the single most important GHG pollutant due to its abundance when compared with other vehicle-emitted GHG pollutants, including methane, nitrous oxide, hydrofluorocarbon and black carbon.

Based on Project information available for environmental studies, the constructionrelated GHG emissions were calculated using the Road Construction Emissions Model (RCEM), version 8.1.0, provided by the Sacramento Metropolitan Air Quality Management District. It was estimated that for construction duration of 10 months the total amount of CO₂ produced due to construction would be 503.47 tons. Because construction activities are short-term, the GHG emissions resulting from construction activities would not result in long-term adverse effects.

The Project would not increase highway capacity, and therefore, would not result in a long-term increase of GHG emissions.

a) <u>Less Than Significant Impact</u>

While the Project would generate GHG emissions, these emissions would be temporary. During operation, GHG emissions would remain the same as baseline preProject conditions, as the Project does not propose to increase the capacity of SR 29 and it would not induce growth. Therefore, the Project would have no significant long-term impacts. Project Features GHG-1 and GHG-2 would further reduce GHG emissions from the Project.

b) <u>No Impact</u>

The proposed Project does not conflict with any applicable, plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Hazards and Hazardous Materials

IX. HAZARDS AND HAZARDOUS MATERIALS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			х	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			х	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				х
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				х
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				х
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			х	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			х	

Caltrans investigated hazards and hazardous materials impacts from the proposed Project and the Hazardous Waste Branch prepared a technical memorandum (May 15, 2019). This section summarizes the findings of this study.

The roadside surface and near-surface soils to be disturbed by the Project could approach or exceed regulated concentrations of aerially deposited lead, based on past soil testing data collected near Dry Creek Bridge. As a result, the soils to be excavated for shoulder widening would need to be tested and characterized. In addition, a bridge survey during the design phase of the Project would be required. This survey would be used to identify the presence or absence of hazardous materials on the bridges to be repaired. These materials include asbestos-containing material (ACM) and lead-based paint (LBP). If identified by the testing, ACM, LBP, and leadcontaminated soils would be addressed according to the Project specifications drafted by the District 4 Hazardous Waste Branch.

Aerially deposited lead (ADL) from the historical use of leaded gasoline exists along roadways throughout California. If encountered during the Project, soil with elevated concentrations of lead as a result of ADL within Caltrans ROW would be managed under the July 1, 2016, ADL Agreement between Caltrans and the California Department of Toxic Substances Control. This ADL Agreement allows such soils to be safely reused within the Project limits as long as all requirements of the ADL Agreement are met.

a, b) <u>Less Than Significant Impact</u>

There is potential for the surface and near-surface soils within the Project limits to contain regulated concentrations of ADL. These soils and the three bridges would be tested for the presence of hazardous materials. If hazardous materials are found, the appropriate measures would be taken for the handling and storage of these materials, as detailed in Project Features HAZ-1 and HAZ-2 in Table 2-2. The Project would have a less than significant impact.

c) <u>No Impact</u>

The Project location is not within one-quarter mile of an existing or proposed school, and there would be no impact.

d) <u>No Impact</u>

None of the three bridge locations are on or close to areas that are on the Cortese list, which is a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. There would be no impact.

e) <u>No Impact</u>

The Project location is not within the vicinity of a current or proposed airport or airstrip. There would be no impact.

f) Less Than Significant Impact

Potential delays to traffic along SR 29 would result from flagger-controlled traffic in effect during installation of K-rails. A Traffic Management Plan (TMP) (as described in Project Feature TRA-1 in Table 2-2) would be developed during the design phase that would identify traffic delays and alternative routes. Emergency response times are not anticipated to change during construction because the TMP would provide priority to emergency vehicles during traffic control. The TMP would provide instructions for response or evacuation in the event of an emergency. In addition, this Project would not conflict with any other emergency response or evacuation plan. The impact on emergency response plans would be less than significant.

g) <u>Less Than Significant Impact</u>

The Project locations traverse agricultural and urban lands. According to the CalFire hazard severity zone mapping, the Project locations are not in a State Responsibility Area, and not in a fire hazard severity zone. The Caltrans District 4 Vulnerability Assessment also shows that the Project locations are not in an area of wildfire concern. Project Feature TRA-1 would reduce fire risk to local residents and the traveling public, and there would be a less than significant impact.

Hydrology and Water Quality

X. HYDROLOGY AND WATER QUALITY: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			х	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?				х
 c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; 			х	
 (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; 			х	
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			х	
(iv) impede or redirect flood flows?			Х	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				Х
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				Х

Caltrans investigated impacts to hydrology and water quality from the proposed Project and prepared the Water Quality Study (Caltrans 2020c) and Hydraulic Study (Caltrans 2020b). This section summarizes the findings of the studies.

This Project is located within the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) jurisdiction of Region 2, which is responsible for implementation of state and federal laws and regulations for water quality protection.

The Project lies in the San Pablo Hydrologic Unit, Napa River Hydrologic Area, and Undefined Sub-Area (HAS 206.50). All three bridges are within the Napa River Watershed. Dry Creek Bridge is located in the Lower Napa River Sub-Watershed, while Perfume Creek Bridge and California Drive Undercrossing Bridge are located in the Dry Creek Sub-Watershed. The Project is located within a Mediterranean climate region characterized by warm summers, mild wet winters, and a rainy season between October 15 and April 15. The average warmest month is July and the average coolest month is January. The mean annual precipitation ranges from 33.19 to 43.87 inches. The most precipitation on average occurs in December.

Stormwater runoff from the Project limits drains into the municipal separate storm sewer system in Napa County that eventually drains into Napa River and Dry Creek. Napa River is on the Clean Water Act Section 303 (d) list for various pollutants, including sedimentation/siltation and pathogens. Napa River has a U.S. Environmental Protection Agency approved Total Maximum Daily Load for nutrients.

Clean Water Act Section 401 and 404 permits are required for the Project. Culvert and bridge widening would constitute fill to Waters of the U.S. due to work within Perfume Creek and Dry Creek. A CDFW Section 1602 Streambed Alteration Agreement would be required to facilitate stream diversion operations associated with culvert widenings and wing wall modifications.

Project activities would occur on 2.0 acres of disturbed soil area. The Project is subject to the Construction General Permit and a SWPPP would be prepared. The Project would result in 0.21 acre of new impervious area.

a) <u>Less Than Significant Impact</u>

Construction and staging activities may result in the release of fluids, concrete material, sediment, and litter to receiving waters within the site, as well as beyond the perimeter of the site. This may change the localized pH and turbidity of receiving water courses. Water quality impacts that may result from this Project also include increased sediment discharge from approximately 2.0 acres of disturbed soil area and increased runoff from 0.21 acre of net new impervious surface. With standard construction BMPs, the proposed Project would not violate water quality standards or waste discharge requirements. With implementation of AMM HYD-1 and Project Features HYD-1 through HYD-5, the Project would result in less than significant impact.

b) <u>No Impact</u>

The proposed Project would have no effect to groundwater supplies or groundwater recharge areas in the Project vicinity. There would be no impact.

c(i), (ii), (iii), (iv) <u>Less Than Significant Impact</u>

The Project would not substantially alter the existing drainage pattern of the site. With standard BMPs, including implementation of Project Features HYD-1 through HYD-5 in Table 2-2, the Project would not result in substantial erosion or siltation. The proposed Project would result in a minimal increase of surface runoff due to the new impervious surface. The increase in surface runoff would be accommodated with the existing stormwater facilities and would not exceed existing storm drain systems or result in substantial additional sources of polluted runoff. The Project would also not impede or redirect flood flows. The Project would have less than significant impacts.

At this phase of this Project, no water table data or boring test logs are available. There is extensive foundation work and piling planned as part of the Project. Dewatering activities would be required at Perfume Creek and Dry Creek during installation of the cofferdams and temporary creek diversions. Dewatering effluent discharged from the construction site to a storm drain or receiving water is subject to requirements of the applicable National Pollutant Discharge Elimination System permit, Section 401 Clean Water Act Certification, or other waste discharge requirements administered by the SFBRWQCB. An active treatment system may be necessary to meet the effluent limits of the Construction General Permit (CGP) for turbidity and pH in stormwater. The Project would also not impede or redirect flood flows. With implementation of AMM HYD-2, the Project would have a less than significant impact.

d) <u>No Impact</u>

The Project footprint at Dry Creek and Perfume Creek includes areas within the 100year floodplain as defined by Federal Emergency Management Agency Food Insurance Rates Maps (numbers 06055C0505F, 06055C0413E, and 06055C0413E). Dry Creek is located in Zone A, a base floodplain with no base flood elevations determined. No impacts to the floodplain are expected. Perfume Creek is located in Zone AE, base floodplain associated with Napa River. A base flood would overtop the roadway pre- and post-Project, but no new impacts to the floodplain are expected. California Drive Undercrossing Bridge is in Zone X, an area with less than 0.2 percent (500-year flood) annual chance floodplain. The Project is not in a flood hazard, seiche, or tsunami zone.

The Project would continue to operate as a transportation system, and thus, the Project would not have the potential of releasing pollutants during a flood. There would be no impact.

e) <u>No Impact</u>

With implementation of standard BMPs, as well as Project Features HYD-1 through HYD-5 in Table 2-2, the Project would not conflict with or obstruct implementation of a water quality control plan or suitable groundwater management plan.

Avoidance and Minimization Measures

AMM HYD-1: Sediment Control Practices. Sediment control practices include but are not limited to the following: silt fence, sediment/distilling basin, check dam, fiber rolls, and street sweeping and vacuuming. Fiber rolls generally consist of wheat straw or other inert biological materials that are then bound together. These rolls are placed along the toe of downhill slopes, perpendicular to the direction of flow, to reduce flow velocity, and slow the release of runoff and sheet flow into receiving waters. These rolls also trap sediment in the water column and prevent these sediments from entering the creeks in the Project vicinity.

AMM HYD-2: Non-Stormwater Management. Waste management and materials pollution control practices will be implemented as part of this Project. These measures apply to dewatering operations, pile driving operations, concrete curing and finishing, water conservation practices, portable water/irrigation, vehicle and equipment operations (fueling, cleaning, and maintenance), and material and equipment use.

Water quality management practices will be implemented during all other construction activities, including pile driving operations. These practices include the proper storage of equipment, such as parking of vehicles more than 50 feet away from water courses.

Land Use and Planning

XI. LAND USE AND PLANNING: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?				Х
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				х

a, b) <u>No Impact</u>

The Project corridor is predominantly rural, with numerous vineyards and a few residences adjacent to the highway. New structures proposed by the Project would be fully contained within the Project footprint and not encroach into residential areas. The proposed Project would not physically divide an established community. In addition, the Project does not conflict with any applicable land use plan, policy, or regulation.

The SR 29 Bridge Rail Replacement Project would not conflict with or change existing or planned land uses or zoning codes. The proposed Project is consistent with state, regional and local plans and programs, including the Metropolitan Transportation Commission's 2040 Plan Bay Area (ABAG/MTC 2017); the Yountville 2019 General Plan (Yountville 2019); and the Napa County 2008 General Plan (Napa County 2008). In addition, the Project is outside of the California Coastal Zone and is not located near wild or scenic rivers. While there are local parks and recreational facilities along SR 29 and within the Project vicinity, the Project would not impact public access to these sites. There would be no impact on land uses from the Project.

Mineral Resources

XII. MINERAL RESOURCES: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				х
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				Х

a, b) <u>No Impact</u>

The Project does not occur within a known mineral resource zone. Therefore, no impacts on mineral resources would result from the proposed Project.

Noise

XIII. NOISE: Would the project result in:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				Х
b) Generation of excessive groundborne vibration or groundborne noise levels?			Х	
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				х

Caltrans investigated noise impacts from the proposed Project and the Noise Branch prepared a *Technical Memorandum*, *Air/Noise Analysis* dated April 9, 2019. This section summarizes the findings of this study.

The Project would not add a new traffic lane or substantially alter the alignment of SR 29; therefore, it is not a Type I project under 23 CFR 772. An evaluation of noise abatement is not necessary, and a Noise Study is not required.

For all three bridges, residential homes (sensitive receptors) are located outside the Project limits. No residential homes are adjacent to Perfume Creek Bridge, one residential home is located within 75 feet of Dry Creek Bridge, and several residential developments within the Town of Yountville are located adjacent to SR 29 near California Drive Undercrossing Bridge but are located over 150 feet from the Project limits.

a, c) <u>No Impact</u>

While the Project would potentially expose people to heightened noise levels during construction, those levels would be temporary and only moderately exceed current standards. 23 CFR 772 provides procedures for preparing operational and construction noise studies and evaluating noise abatement considered for federal and federal-aid highway projects. Caltrans uses this same definition when evaluating state projects without federal funding. The Project was determined not to be a Type I

project per 23 CFR 772 because the Project would not increase highway capacity; therefore, a noise study is not required, and noise abatement need not be considered. The Project is not within the vicinity of a private airport or airstrips. There would be no impact.

b) Less Than Significant Impact

The Project would not cause excessive groundborne vibration or groundborne noise levels. Nevertheless, with residential properties (sensitive receptors) near the Project locations, construction noise control measures would be implemented, and night work within 50 feet of any sensitive receptor would not be allowed. Project Features NOI-1 and NOI-2 would further reduce potential noise levels. In addition, AMM Noise-1 would be implemented to address potential noise impacts to sensitive receptors within the Project vicinity.

Avoidance and Minimization Measures

AMM NOISE-1: Night Work. No night work will be conducted within 50 feet of a sensitive receptor.

Population and Housing

XIV. POPULATION AND HOUSING: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				Х
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				х

a, b) <u>No Impact</u>

The Project would not induce growth. No new commercial or residential establishments would be built, and the Project would not add travel lanes to SR 29; therefore, the Project would not increase roadway capacity. The Project also would not displace any housing units or people. There are no houses within the Project construction area and no ROW would be acquired. Therefore, the Project would have no impact on population and housing.
Public Services

XV. PUBLIC SERVICES:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Fire protection?				х
Police protection?				Х
Schools?				Х
Parks?				Х
Other public facilities?				Х

a) <u>No Impact</u>

I

Construction of the Project would not result in the provision of new or physically altered governmental facilities. Furthermore, the Project would not result in a need for new or physically altered governmental facilities in order to maintain acceptable service ratios. Emergency response times are not anticipated to change during construction because the TMP would provide measures to ensure priority for emergency vehicles during traffic control on the frontage roads during temporary Krail installation. The TMP would provide instructions for emergency response and evacuation in the event of an emergency. In addition, this Project would not conflict with any other emergency response or evacuation plan.

A TMP would be implemented as described in Project Feature TRA-1 which would ensure that police, fire, and medical services would not be significantly impacted by the proposed Project.

Recreation

XVI. RECREATION:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				х
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				х

a, b) <u>No Impact</u>

This Project would not increase the use of existing neighborhood and regional parks/recreational facilities, and this Project would not include or require the expansion of recreational facilities. In addition, no Project construction would occur on or within any recreational facilities. The Project would have no impact on recreational resources.

Transportation and Traffic

XVII. TRANSPORTATION: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			х	
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			Х	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				Х
d) Result in inadequate emergency access?			Х	

The Project corridor is a divided conventional highway composed of four travel lanes, with two lanes in each direction. According to the Draft Project Report, SR 29 currently has an average daily traffic volume of 58,800 vehicles (Caltrans 2020e).

While the individual bridge locations of the Project do not include pedestrian, transit, bicycle, or park and ride facilities, bikes are permitted on the shoulders of Dry Creek Bridge, Perfume Creek Bridge, and California Drive Undercrossing Bridge. Bicyclists currently prefer to use the Napa Valley Vine Trail, which is separate from but runs parallel to SR 29. The Napa Valley Vine Trail is envisioned as a 47-mile walking and biking trail system that will connect the entire Napa Valley from Calistoga south to the Vallejo Ferry. The Napa Valley Vine Trail crosses from the east to the west side of California Drive at its bridge undercrossing of SR 29. The NVWT has railroad tracks parallel to and west of SR 29.

In addition to replacing bridge rails, the Project would widen all three bridges to maintain standard shoulder widths, which would improve safety for bicyclists in the area. The Project would maintain the following non-standard features: cross slope, sight distance, and super-elevation. The Project would not increase the vehicular capacity of SR 29. The Project would not alter the circulation system and would not increase vehicle miles traveled.

The Project, during construction, would potentially require temporary closures of SR 29, particularly during the installation of K-rails to close off shoulders. All construction work would occur within the shoulders, behind these temporary K-rails.

Therefore, the Project would cause minor short-term localized traffic congestion or delays. One-way traffic control on the frontage roads during the one-day, nighttime installation of K-rails would consist of flaggers to regulate traffic.

a) Less Than Significant Impact

The proposed Project would not conflict with programs, plans, ordinances or policies regarding the circulation system, public transit, bicycle, or pedestrian facilities. The NVWT would not be impacted by bridge rail construction at any location, including the trail undercrossing at California Drive Undercrossing Bridge. The NVWT operations and tracks would not be impacted by Project construction; no construction work would be allowed within 25 feet of the railroad track center line.

The Project proposes to replace bridge rails while also widening the bridges. This would benefit and improve safety for bicyclists using SR 29 by establishing standard shoulder widths on all bridges. In addition, 24-inch link railing (Type 7) is recommended for both sides of Dry Creek Bridge and the south/eastbound side of Perfume Creek bridge where bicyclists can currently ride.

The TMP (Project Feature TRA-1) would include press releases to notify and inform multi-modal travelers, including through the use of changeable messages signs, ground mounted signs, lane closure charts, and a construction zone enhanced enforcement program (COZEEP).

b) <u>Less Than Significant Impact</u>

The Project would be consistent with CEQA Guidelines Section 15064.3, subdivision b. The Project would not increase vehicle miles traveled. Under section 15064.3, subdivision b, transportation projects that have no impact on vehicle miles traveled should be presumed to cause a less than significant transportation impact.

c) <u>No Impact</u>

The proposed Project does not include any design features or construction elements that would substantially increase hazards (e.g., sharp curves or dangerous intersections). There would be no impact.

d) Less Than Significant Impact

The Project would not conflict with any program, plan, ordinance, or policy addressing bicycle and pedestrian plans. The Project would enhance access and safety for bicyclists through bridge widening. The Project would not interfere with local transit operations. This Project would not result in inadequate emergency access. A TMP (Project Feature TRA-1) would be developed during the design phase that would identify traffic diversion/staging and alternative routes. Emergency response times are not anticipated to change during construction because the TMP would provide measures to ensure priority for emergency and medical response vehicles during traffic control. The TMP would provide instructions for response and evacuation in the event of an emergency. In addition, this Project would not conflict with any other emergency response or evacuation plan. The impact would be less than significant.

Tribal Cultural Resources

XVIII. TRIBAL CULTURAL RESOURCES: Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				х
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				х

a, b) <u>No Impact</u>

Caltrans Cultural staff coordinated with the NAHC and local Native American tribes identified as contacts by the NAHC and determined that there would be no impacts to tribal cultural resources (please refer to the Cultural Resources section for more details). Project Features CULT-1 and CULT-2 would provide protection of tribal cultural resources.

Section 106 of the National Historic Preservation Act (NHPA) and Assembly Bill 52 consultation was initiated with letters to local Native American tribes on November 9, 2018 and is ongoing.

Utilities and Service Systems

XIX. UTILITIES AND SERVICE SYSTEMS: Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			х	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				х
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				х
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				х
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				х

Underground utility relocation may be necessary during construction for utility conduits at Perfume Creek Bridge and California Drive Undercrossing Bridge. A PG&E underground utility would be relocated at Perfume Creek Bridge, and an unknown utility would be relocated at California Drive Undercrossing Bridge. Verification of utility locations and necessary relocations would be determined during the design phase in coordination with the utility provider. No utility impacts are anticipated at Dry Creek Bridge.

a) <u>Less Than Significant Impact</u>

Utility conduits would be relocated during construction of Perfume Creek Bridge and California Drive Undercrossing Bridge. A PG&E underground utility would be relocated at Perfume Creek Bridge, and an unknown utility would be relocated at California Drive Undercrossing Bridge. The impact from utility relocations is expected to be less than significant. Utility providers would be notified ahead of construction and Caltrans would coordinate with these providers during construction to minimize utility service disruptions as outlined in Project Feature UTIL-1 (Table 2-2). The impact would be less than significant.

b, c, d, e) <u>No Impact</u>

The Project would not require or result in the construction of new water or wastewater treatment facilities, or the expansion of existing facilities. The Project also would not require the services of a landfill where the Project would impact the capacity of a landfill. The Project would not exceed wastewater treatment requirements. The Project would not require water supplies to serve the Project from existing entitlements or where the Project would impact new or expanded entitlements. The Project would not require the services of a wastewater treatment provider where the Project would impact the capacity of the provider. The Project would comply with all regulations regarding solid waste. The Project would implement Project Feature UTIL-2, as described in Table 2-2, requiring the proper disposal of construction trash. There would be no impact.

Wildfire

XX. WILDFIRE: If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			Х	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				х
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				х
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				х

The California Drive Undercrossing Bridge is located within a Local Responsibility Area for the Napa County Fire Department at Yountville providing fire suppression, rescue, and emergency services. The Project is outside of a State Responsibility Area and is not within a high severity fire area (CAL FIRE 2019).

a) <u>Less Than Significant Impact</u>

A TMP (as described in Project Feature TRA-1) would be developed during the design phase that would identify traffic diversion/staging and alternative routes. Emergency response times would not change during construction because the TMP would be developed in coordination with local authorities and provide measures to ensure priority for emergency vehicles during traffic control. The TMP would provide instructions for emergency response and evacuations in the event of an emergency. In addition, this Project would not conflict with any other emergency response or evacuation plan.

b, c, d) No Impact

The Project would not require installation of infrastructure that would exacerbate wildfire risks. The Project would not expose people or structures to significant risks due to downslope flooding or landslides as a result of post-fire slope instability or drainage changes.

Mandatory Findings of Significance

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?			х	
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				х
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				х

a) <u>Less Than Significant Impact</u>

The biological resources identified that may be impacted by the proposed Project include migratory birds, pallid bat and Townsend's big-eared bat, the CCC DPS steelhead, CFS, and the CRLF. The Project would have a minimal impact on biological resources. With the Project Features and AMMs prescribed for the Project, impacts would be less than significant, and therefore, mitigation would not be required.

b) <u>No Impact</u>

The Project vicinity is largely rural and agricultural. There are no proposed development projects that would act in concert with the proposed Project to result in environmental effects that are cumulatively considerable. Future planned roadway projects are maintenance type projects that would not result in the expansion or increase in capacity of SR 29. These projects include rock fall mitigation, slope stabilization, upgrade of sidewalks and curb ramps to meet ADA requirements, and advance purchase of mitigation.

The Napa Valley Vine Trail Project and other minor development projects in the area would result in the addition of more impervious surface to the landscape. But these

projects, when combined with the proposed Project (bridge rail replacement and widening), would not significantly change the rural character or the landscape of the Project vicinity. The general vicinity of the proposed Project is zoned as "Agricultural Preserve" per the Napa County General Plan. This area between Oak Knoll and Yountville largely consists of wineries, and no major development projects are anticipated at this time. Allowable uses in the Project vicinity include single-family residences, wine warehousing, and farm labor dwellings, etc. Caltrans anticipates this area will remain as viticulture geared towards drawing tourists from all over the world, and that the area will remain zoned for agriculture, which does not allow for large-scale commercial or industrial uses.

Because the effects of the Project are construction-related, if other highway improvement projects along SR 29 occur within a similar timeframe, cumulative construction-related effects may occur (such as increased delays due to additional areas using traffic management). However, Caltrans routinely coordinates with regional transportation managers and local agencies (such as Napa Valley Transportation Authority and Napa County) to minimize impacts in the region resulting from construction of multiple planned projects. The short duration and limited scope of the Project would not contribute considerably to cumulative environmental impacts, and Project-related impacts to resources would be reduced with the proper implementation of Project Features and AMMs.

Caltrans would coordinate this Project with other projects scheduled to occur along SR 29 in the Project vicinity that have overlapping construction schedules. The Project would have no cumulative impacts.

c) <u>No Impact</u>

The Project would not have any environmental effects that would cause adverse effects on human beings either directly or indirectly.

Public Outreach Coordination

- The Initial Study with Proposed Negative Declaration was circulated to the public on July 22, 2020. The public comment period ended on August 31, 2020, and one comment letter was received from CDFW.
- A Notice of Completion was submitted to the Office of Planning and Research (OPR) on July 22, 2020 (attached). OPR assigned State Clearinghouse No. 2020070433 and distributed the Initial Study with Proposed Negative Declaration to 11 state agencies.
- A Public Notice of the Project and the public comment period was advertised in the *Napa Valley Register* newspaper on July 22, 2020 and July 25, 2020 (attached).
- The Initial Study with Proposed Negative Declaration was posted on the Caltrans website on July 22, 2020. The Caltrans environmental document website is: (<u>https://dot.ca.gov/caltrans-near-me/district-4/d4-popular-links/d4-environmental-docs</u>)
- Caltrans mailed 5 letters to public agencies and 12 letters to elected officials announcing the Project public review period and providing a link to the Caltrans website location.

Biological Resources Coordination

- On November 28, 2018, Robert Stanley attended a field visit with Jessica Thaggard and Robert Blizard. CDFW was the only agency present at this field meeting. Caltrans presented the initial scope and discussed the Project timeline and occurrences of federally listed species in the Project vicinity.
- Jessica Thaggard (Caltrans biologist) requested technical assistance from John Cleckler of the USFWS for the proposed Project on January 7, 2019.
- Jessica Thaggard contacted NMFS liaison Darren Howe on January 7, 2019, to request informal consultation for the presence of CCC steelhead and associated designated critical habitat within Dry Creek.

- Jessica Thaggard contacted CDFW liaison Robert Stanley on January 7, 2019, to request informal consultation to discuss the occurrence of state-listed species within the Project vicinity.
- Jessica Thaggard contacted USFWS liaison John Cleckler on May 13, 2019, to set up a field visit to discuss the effects determination of CRLF and California freshwater shrimp.
- Caltrans biologists Jessica Thaggard and Rachel Roberts met with CDFW liaison Robert Stanley on July 10, 2019, in the field to discuss presence of FYLF, CFS, and Swainson's hawk.
- Caltrans biologist Jessica Thaggard and Robert Blizard met with USFWS liaison John Cleckler on July 25, 2019, in the field to discuss presence of CRLF, CFS and listed plants.
- Caltrans biologist Jessica Thaggard and Robert Blizard met with CDFW liaison Robert Stanley during office hours on November 19, 2019, to discuss effects determinations. Robert Stanley said the primary environmental concern for CDFW is with freshwater shrimp at Dry Creek Bridge.
- Caltrans biologist Jessica Thaggard contacted U.S. Army Corps of Engineers (USACE) liaison, Daniel Breen, on November 21, 2019, to discuss ordinary high water mark (OHWM) and jurisdictional waters at Perfume Creek Bridge. A site visit was set up for December 4, 2019.
- Caltrans biologist Jessica Thaggard met with USACE liaison Daniel Breen on December 4, 2019, at Craig Creek, Perfume Creek, and Dry Creek. During this field visit, USACE determined that Perfume Creek had an OHWM and was not a wetland.
- Caltrans submitted a Biological Assessment to USFWS on May 6, 2020 for review and requested concurrence with the findings presented therein.
- Caltrans received the Biological Opinion (BO) for this Project from USFWS on July 8, 2020.
- Caltrans submitted a request for a Letter of Concurrence (LOC) on the BO to NMFS on September 15, 2020. Caltrans received the LOC on October 14, 2020.

Tribal Resources Coordination

- Formal notification of local tribes began with initial consultation letters sent out on November 14, 2018. Coordination is ongoing.
- Section 106 of the National Historic Preservation Act (NHPA) and Assembly Bill 52 consultation was initiated with letters to local Native American tribes on November 9, 2018 and is ongoing.

Chapter 5 List of Preparers

The primary people responsible for contributing to, preparing, and reviewing this report are listed in Table 5-1.

Organization Name	Role
Caltrans	
Christopher Caputo	Office Chief, Environmental Analysis (Acting)
Lindsay Vivian	Office Chief, Environmental Analysis
Llisel Ayon	Environmental Planner, Environmental Analysis
Maxwell Lammert	Branch Chief, Office of Environmental Analysis (Acting)
Melanie Brent	Deputy District Director, Environmental Planning and Engineering
Skylar Nguyen	Environmental Planner, Environmental Analysis
Shawn Hallum	Associate Environmental Planner, Environmental Analysis
Santi Lombardo	Project Manager, Project Management
Ronald Sangalang	Project Manager, Project Management
Robert Blizard	Branch Chief, Biological Sciences and Permits
Jessica Thaggard	Associate Environmental Planner, Biological Sciences and Permits
Kara Gonzales	Associate Environmental Planner, Biological Sciences and Permits
Helen Blackmore	Branch Chief, Cultural Resource Studies (Architectural History)
Michael Meloy	Associate Environmental Planner (Architectural History)
Kathryn Rose	Branch Chief, Cultural Resource Studies (Archaeology)
Althea Asaro	Associate Environmental Planner (Archaeology)
Susan Lindsay	Branch Chief, Landscape Architecture
Diana Pink	Landscape Associate, Landscape Architecture
Chris Risden	Senior Engineering Geologist, Geotechnical Design
Ron Karpowicz	Engineering Geologist, Geotechnical Design
Kevin Krewson	Branch Chief (Air and Noise), Environmental Engineering
Bahram Sazegar	Transportation Engineer (Air and Noise), Environmental Engineering
Christopher Wilson	Branch Chief (Hazardous Waste), Environmental Engineering
Keith Fang	Transportation Engineer, Environmental Engineering
Kathleen Reilly	Branch Chief (Hydraulics), Engineering Services

Table 5-1 List of Preparers and Reviewers

I

Organization Name	Role
Nghia Nguyen	Transportation Engineer (Hydraulics), Engineering Services
CH2M HILL	
Erika Sawyer	Project Manager
Loretta Meyer	Senior Environmental Planner
Jasmin Mejia	Senior Environmental Planner
Valisa Nez	Environmental Planner
Holly Barbare	Biologist
Chris Archer	GIS Specialist
Bryan Bell	Technical Editor
Clarice Ericsson	Publications Technician

Chapter 6 Distribution List

The Initial Study with Proposed Negative Declaration was circulated on July 22, 2020 to the following agencies and government officials:

Federal Agencies

U.S. Fish and Wildlife Service 2800 Cottage Way W-2605 Sacramento, CA 95825

U.S. Army Corps of Engineers San Francisco District ATTN: Regulatory Branch 450 Golden Gate Ave. 4th Floor San Francisco, CA 94102

National Marine Fisheries Services 777 Sonoma Avenue Room 325 Santa Rosa, CA 95404

Environmental Protection Agency, Region IX Federal Activities Office, CMD-2 75 Hawthorne Street San Francisco, CA 94105-3901

State Agencies

State Clearinghouse, Executive Officer 1400 Tenth Street, Room 156 P.O. Box 3044 Sacramento, CA 95812-3044

California Department of Fish & Wildlife Region 3 7329 Silverado Trail Napa, CA 94558

Bay Area Air Quality Management District Chief Executive Officer 939 Ellis Street San Francisco, CA 94109 California Air Resources Board 1001 I Street P.O. Box 2815 Sacramento, CA 9812

Regional and Local Agencies

Association of Bay Area Governments 375 Beale Street San Francisco, CA 94105

Metropolitan Transportation Commission 375 Beale Street San Francisco, CA 94105

Kate Miller Executive Director Napa Valley Transportation Authority 625 Burnell Street Napa, CA 94559

Danielle Schmitz Director Capital Development and Planning Napa Valley Transportation Authority 625 Burnell Street Napa, CA 94559

Federal and Statewide Elected Officials

The Honorable Dianne Feinstein United States Senate One Post Street, Suite 2450 San Francisco, CA 94104

The Honorable Kamala Harris United States Senate 333 Bush Street, Suite 3225 San Francisco, CA 94101 The Honorable Mike Thompson United States House of Representatives (CA-5) 2721 Napa Valley Corporate Drive Napa, CA 94558

The Honorable Bill Dodd California State Senate, District 3 2721 Napa Valley Corporate Drive Napa, CA 94558

The Honorable Cecilia Aguiar-Curry California State Assembly, District 4 2721 Napa Valley Corporate Drive Napa, CA 94558

Napa County

The Honorable Brad Wagenknecht Napa County Board of Supervisors, District 1 County Administration Building 1195 Third Street Napa, CA 94559

The Honorable Ryan Gregory Chair of the Board Napa County Board of Supervisors, District 2 County Administration Building 1195 Third Street Napa, CA 94559

The Honorable Diane Dillon Vice Chair of the Board Napa County Board of Supervisors, District 3 County Administration Building 1195 Third Street Napa, CA 94559 The Honorable Alfredo Pedroza Napa County Board of Supervisors, District 4 County Administration Building 1195 Third Street Napa, CA 94559

The Honorable Belia Ramos Napa County Board of Supervisors, District 5 County Administration Building 1195 Third Street Napa, CA 94559

Molly Rattigan Deputy County Executive Officer County of Napa County Administration Building 1195 Third Street Napa, CA 94559

City of Napa

Mayor Jill Techel City of Napa 955 School Street Napa, CA 94559

Julie Lucido Public Works Director City of Napa 955 School Street Napa, CA 94559

City of Yountville

Mayor John Dunbar City of Yountville 6550 Yount Street Yountville, CA 94599

Appendix A Title VI Policy Statement

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

DEPARTMENT OF TRANSPORTATION

OFFICE OF THE DIRECTOR P.O. BOX 942873, MS-49 SACRAMENTO, CA 94273-0001 PHONE (916) 654-6130 FAX (916) 653-5776 TTY 711 www.dot.ca.gov





Making Conservation a California Way of Life.

November 2019

NON-DISCRIMINATION POLICY STATEMENT

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964, ensures "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

Related federal statutes, remedies, and state law further those protections to include sex, disability, religion, sexual orientation, and age.

For information or guidance on how to file a complaint, or obtain more information regarding Title VI, please contact the Title VI Branch Manager at (916) 324-8379 or visit the following web page: https://dot.ca.gov/programs/business-and-economic-opportunity/title-vi.

To obtain this information in an alternate format such as Braille or in a language other than English, please contact the California Department of Transportation, Office of Business and Economic Opportunity, at 1823 14th Street, MS-79, Sacramento, CA 95811; (916) 324-8379 (TTY 711); or at Title.VI@dot.ca.gov.

Toks Omishakin Director

"Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Appendix B List of Acronyms and Abbreviations

ABAG	Association of Bay Area Governments
ACM	asbestos-contain material
ADL	aerially deposited lead
AMM	Avoidance and Minimization Measure
APE	Area of Potential Effects
BMPs	Best Management Practices
BIRIS	Bridge Inspection Records Information System
BO	Biological Opinion
BSA	Biological Study Area
CCC	Central California Coast
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CFS	California freshwater shrimp
CGP	Construction General Permit
CHL	California Historic Landmark
CIDH	cast-in-drilled-hole
CNDDB	California Natural Diversity of Database
CRLF	California red-legged frog
DPS	Distinct Population Segment
GHG	greenhouse gas emissions
IS	Initial Study
LBP	lead-based paint
MBGS	Metal Beam Guardrail System
MGS	Midwest Guardrail System

MTC	Metropolitan Transportation Commission
NAHC	Native American Heritage Commission
ND	Negative Declaration
NES	Natural Environment Study
NMFS	National Marine Fisheries Service
NRHP	National Register of Historic Places
NVWT	Napa Valley Wine Train
OCRS	Office of Cultural Resource Studies
PM	post mile
PQS	Professional Qualified Staff
RE	Resident Engineer
ROW	right of way
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SHOPP	State Highway Operation Protection Program
SR	State Route
STRAIN	Structure Replacement and Improvement Needs Report
SWPPP	Stormwater Pollution Prevention Plan
TCE	temporary construction easement
TMP	Traffic Management Plan
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
VIA	Visual Impact Assessment

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Appendix D Avoidance and Minimization Measures Summary

Avoidance and Minimization Measures for Aesthetic Resources

AMM AES-1: Tree Removal. The seven trees removed during construction will be replaced as required as per Caltrans policies. Trees removed will be replanted where feasible. Irrigation damaged and/or removed as a result of the Project will require repair/replacement as part of the Project.

Avoidance and Minimization Measures for California Red-Legged Frog

AMM BIO-1: Pre-Construction California Red-Legged Frog Surveys. Preconstruction surveys for the CRLF will be conducted by a USFWS-approved biologist no more than 20 calendar days prior to any initial ground disturbance and immediately prior to ground-disturbing activities (including vegetation removal) beyond the existing pavement. These efforts will consist of walking surveys of the Project limits and, if possible, accessible adjacent areas within at least 50 feet of the Project limits. The USFWS-approved biologist will investigate potential cover sites when it is feasible and safe to do so. This includes thorough investigation of mammal burrows, rocky outcrops, appropriately sized soil cracks, tree cavities, and debris. Native vertebrates found in the cover sites within the Project limits will be documented and relocated to an adequate cover site in the vicinity. Safety permitting, the USFWS-approved biologist(s) will investigate areas of disturbed soil for signs of frogs within 30 minutes following initial disturbance of the given area.

AMM BIO-2: Prevention of Entrapment. To prevent the inadvertent entrapment of the CRLF, all excavated, steep-walled holes or trenches more than 1-foot deep will be covered at the close of each working day by plywood or similar materials. If it is not feasible to cover an excavation, one or more escape ramps constructed of earthen fill or wooden planks shall be installed. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, the USFWS-approved biologist will immediately place escape ramps or other appropriate structures to allow the animal to escape, or the USFWS will be contacted by telephone for guidance. The USFWS will be notified of the incident by telephone and electronic mail within one working day.

AMM BIO-3: Protocol for Species Relocation and Reporting. If red-legged frogs are encountered in the immediate work area the following procedures will be followed:

- a. If CRLF is discovered during surveys or Project activities, the RE and USFWSapproved biologist will be immediately informed. If a CRLF gains access to a construction zone, work will be halted immediately within 50 feet until the animal leaves the construction zone or is relocated by the USFWS-approved biologist. The captured frog will be released within appropriate habitat outside of the construction area within the creek's riparian corridor. The release habitat will be determined by the USFWS-approved biologist.
- b. The USFWS-approved biologist will have the authority to halt work through coordination with the RE in the event that a CRLF is discovered within the Project footprint. The RE will ensure construction activities remain suspended in any construction area where the qualified biologist has determined that a potential take of the CRLF could occur. Work will resume once the animal leaves the site voluntarily, is removed by the biologist(s) to a release site using USFWS-approved handling techniques, or it is determined that the CRLF is not being harassed by construction activities. If take occurs, the biologist(s) will notify the USFWS contact by telephone and electronic mail within one working day.
- c. The biological monitor(s) will take precautions to prevent introduction of amphibian diseases in accordance with the Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog (USFWS 2005).
- d. Injured frogs will be cared for by a USFWS-approved biologist or a licensed veterinarian, if possible. Dead frogs will be preserved according to standard museum techniques and held in a secure location. The USFWS will be notified within one working day of the discovery of a death or an injury of frog(s) resulting from Project-related activities or if a CRLF is observed at the Project site. Notification will include the date, time, and location of the incident or of the finding of a dead or injured animal clearly indicated on a U.S. Geological Survey 7.5-minute quadrangle and other maps at a finer scale, as requested by the USFWS, and any other pertinent information.
- e. Caltrans will submit post-construction compliance reports prepared by the biologist to the USFWS within 60 calendar days following completion of Project activities or within 60 calendar days of any break in construction activity lasting

more than 60 calendar days. This report will detail (1) dates that relevant Project activities occurred; (2) pertinent information concerning the success of the Project in implementing AMMs for listed species; (3) an explanation of failure to meet such measures, if any; (4) known Project effects on the CRLF, if any; (5) occurrences of incidental take of listed species, if any; (6) documentation of employee environmental education; and (7) other pertinent information

Avoidance and Minimization Measures for California Freshwater Shrimp

AMM BIO-4: Prevention of Shrimp Entrapment. Shrimp are difficult to detect, so their presence would be assumed for in-water work areas. These areas will be carefully isolated and all shrimp will be relocated. Prior to temporary creek diversion system installation a USFWS-approved biologist will install one-eighth inch mesh block nets outside Project impact areas and across the creek at a minimum of 20 feet above and below the dewatering limits to isolate the work area. Then, the biologist will remove all shrimp within the block nets using a one-eighth inch seine and/or dip nets, focusing on overhanging vegetation submerged along the creek bank. Shrimp will be relocated to suitable habitat downstream of the dewatering system. Then the cofferdams will be installed and the block nets removed, all monitored by the biologist. Pump intakes will be completely screened with wire mesh no larger than 0.2 inch. The pumps will be fitted with anti-entrapment device(s) to prevent shrimp from being drawn into them or impinged on intake screening. The USFWS-approved biologist will remain on-site and survey for shrimp and monitor turbidity levels within the cofferdams during the active dewatering and will capture and relocate shrimp as necessary.

Avoidance and Minimization Measures for CCC DPS Steelhead

As required under the FESA, Caltrans would implement reasonable and prudent measures to minimize and avoid potential take of the CCC DPS steelhead. The following species-specific AMMs would be used to minimize Project impacts on steelhead:

AMM BIO-5: Prevention of Entrapment. Steelhead juveniles are difficult to detect; thus Caltrans is assuming presence for all in-water work areas within bed and banks of Dry Creek during the wet season. Thus, construction will occur during the typical dry season of June 1 to October 15. If flows or isolated pools are present at the beginning of the work window, Caltrans will work to reduce the take of steelhead by isolating all in-water work areas and capturing and relocating all fish. Capture and

relocation efforts will be conducted as follows, or as agreed upon in the Fish Relocation Plan; a NMFS-approved biologist will install one-eighth inch block nets across the creek (to limit the number of fish from entering the cofferdams) a minimum of 20 feet above and below the locations proposed for dewatering to prevent steelhead moving into what would be the work area. Then, the biologist will capture and relocate all steelhead within the nets using a one-eighth inch seine, dip nets, and/or electroshocking. All captured steelhead will be placed in buckets containing creek water and then relocated to suitable habitat downstream of the dewatering system. All non-native fish, amphibians and crustaceans will not be returned to Dry Creek but will be euthanized and disposed of. After the initial clearance of the dewatered construction area, the cofferdams will be installed with monitoring by the biologist. The block nets will be removed once the cofferdams are installed and functioning and steelhead can no longer enter the work area. The pump to be used for dewatering the work area will be completely screened with wire mesh no larger than 0.2 inch or will be buried in a gravel filled sump. The pumps will be fitted with anti-entrapment device(s) to prevent steelhead from being drawn into them or impinged on intake screening. The NMFS-approved biologist will remain on-site and survey for steelhead and monitor turbidity levels within the work area during the active dewatering and will capture and relocate steelhead as necessary.

AMM BIO-6: Fish Relocation Plan. A Fish Relocation Plan for steelhead will be developed and will be submitted to NMFS for approval 30 days prior to Project construction based on the criteria outlined above (under AMM BIO-5) or as negotiated with appropriate state and federal agencies. The Fish Relocation Plan will identify specific methods and equipment for isolation of work areas, capture and handling of individual fish, and a sequence of relocation steps. Suitable habitat for relocation downstream of the action area will be identified in the Fish Relocation Plan.

AMM BIO-7: Construction Behind Cofferdams. All work in aquatic habitat within Dry Creek will take place behind cofferdams in dewatered areas. Cofferdams will be used to isolate the work areas from Dry Creek and significantly reduce potential construction effects and stressors, such as noise and vibration, from steelhead and other fishes. Cofferdams will be designed and constructed to isolate work along each respective left and right bank of the creek from the central thalweg, avoiding disturbance of core habitat areas in the central part of the creek and allowing tidal flows to easily pass through the Project limits.

AMM BIO-8: In-water Work Windows. All work in aquatic habitat for steelhead and other fishes within Dry Creek will take place from June 1 to October 15 when the most sensitive life history stages of steelhead are not present in the action area. Adult spawning takes place November – February and juvenile smolt outmigration takes place March – May. The in-water work window will also avoid having construction disturbance in Dry Creek when most rainfall typically occurs, avoiding impacts to water quality and challenges to the cofferdams by increased flows that occur during rain events.

Avoidance and Minimization Measures for Mammals

AMM BIO-9: Avoidance of Bat Roosts. Existing roosts should be accommodated to the extent feasible while maintaining the safety, operation, maintenance, and inspection aspects of the structure.

- a. Impacts and interactions with the species should be avoided whenever possible through timing of work, method selection, and retention of features that provide naturalized habitat.
- b. If avoidance is not possible then impacts should be minimized by careful planning of activities to complement the life history of the animal. Measures might include items such as temporary humane exclusions at appropriate times of year to avoid take and the retention of portions of the features that provide naturalized habitat.
- c. Where appropriate, measures to minimize accumulation of guano from existing roosts and to allow inspection without disturbance of the bats should be incorporated into projects.

Avoidance and Minimization Measures for Migratory Birds and Raptors

AMM BIO-10: **Bird Nesting Surveys.** A biologist (s) will conduct pre-construction bird nesting surveys prior to the beginning of construction. Except for nests of listed bird species and eagles, inactive nests will be removed to deter birds from reestablishing nests within the Project limits. Caltrans will remove unoccupied bird nests during the non-nesting season (October 1 to January 31) prior to or during construction or during the nesting season after being deemed inactive by the USFWSapproved biologist. **AMM BIO-11: Exclusion Methods.** Exclusionary methods will be used to prevent migratory birds from nesting and roosting within the BSA (February 1 to September 30).

AMM BIO-12: Migratory Bird and Nest Avoidance. If active nests are present within the Project limits, work within 50 feet of the nest of passerine species or 300 feet of raptor species will be avoided and monitored.

Avoidance and Minimization Measures for Hydrology and Water Quality

AMM HYD-1: Sediment Control Practices. Sediment control practices include but are not limited to the following: silt fence, sediment/distilling basin, check dam, fiber rolls, and street sweeping and vacuuming. Fiber rolls generally consist of wheat straw or other inert biological materials that are then bound together. These rolls are placed along the toe of downhill slopes, perpendicular to the direction of flow, to reduce flow velocity, and slow the release of runoff and sheet flow into receiving waters. These rolls also trap sediment in the water column and prevent these sediments from entering the creeks in the Project vicinity.

AMM HYD-2: Non-Stormwater Management. Waste management and materials pollution control practices will be implemented as part of this Project. These measures apply to dewatering operations, pile driving operations, concrete curing and finishing, water conservation practices, portable water/irrigation, vehicle and equipment operations (fueling, cleaning, and maintenance), and material and equipment use.

Water quality management practices will be implemented during all other construction activities, including pile driving operations. These practices include the proper storage of equipment, such as parking of vehicles more than 50 feet away from water courses.

Avoidance and Minimization Measures for Noise

AMM NOISE-1: Night Work. No night work within 50 feet of a sensitive receptor will be conducted.

Appendix E List of Technical Studies and References

Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC). 2017. *Final Plan Bay Area 2040*. Available at: http://www.mtc.ca.gov/planning/plan_bay_area/.

California Department of Forestry and Fire Protection (CAL FIRE). 2019. <u>California</u> <u>Fire State Responsibility Areas</u>. Available online at: https://hub.arcgis.com/datasets/CALFIRE-Forestry:state-responsibility-area.

California Department of Fish and Wildlife (CDFW). 2020. <u>California Natural</u> <u>Diversity Database (CNDDB)</u>. RareFind 5. Wildlife and Habitat Data Analysis Branch. Sacramento, California. Available online at: http://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp. Accessed on December 11, 2019 and September 17, 2020.

- California Department of Transportation (Caltrans). 2016. Preliminary Geotechnical Reports for California Drive Undercrossing Bridge Widening, Perfume Creek Culvert Extension, and Dry Creek Bridge Widening. June.
- California Department of Transportation (Caltrans). 2017. Construction Site Best Management Practices (BMP) Manual. CTSW-RT-17-314.18.1. May. Division of Environmental Analysis, Stormwater Program.
- California Department of Transportation (Caltrans). 2019a. *Technical Memorandum, Greenhouse Gas Analysis*. March 4.
- California Department of Transportation (Caltrans). 2019b. *Technical Memorandum, Air/Noise Analysis*. April 9.
- California Department of Transportation (Caltrans). 2019c. *Technical Memorandum, Hazardous Waste Analysis.* May 15.
- California Department of Transportation (Caltrans). 2019d. Office of Cultural Resource Studies (OCRS) Section 106 Closeout Memo for the Bridge Rail Replacement Project at Postmiles (PMs) 14.11/19.04 on State Route (29) in Napa County, California. December 13.

- California Department of Transportation (Caltrans). 2019e. *Technical Memorandum, Scenic Resource Evaluation and Visual Impact Assessment*. December 16.
- California Department of Transportation (Caltrans). 2020a. *Natural Environment Study: Napa Bridge Widening and Rail Replacement Project.* January.
- California Department of Transportation (Caltrans). 2020b. *Technical Memorandum Hydraulic Study*. January 14.
- California Department of Transportation (Caltrans). 2020c. *Technical Memorandum, Water Quality Study*. January 14.
- California Department of Transportation (Caltrans). 2020d. *Natural Environment Study, Addendum Summary*. March.
- California Department of Transportation (Caltrans). 2020e. Draft Project Report, Napa SR 29 Bridge Rail Replacement Project. April.
- California Department of Transportation (Caltrans). 2020f. *Paleontology and Geology Environmental Study*. April 28.
- California Department of Transportation (Caltrans). 2020g. *Biological Assessment*. April 30.
- Napa County. 2008. Napa County General Plan Update. June.

Town of Yountville. 2019. Yountville General Plan. May 7.

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Figure 1-3:Dry Creek Bridge Project Components and Impacts

Bridge Rail Replacement Project

Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111







Figure 1-5: California Drive Undercrossing Bridge Project Components and Impacts

Bridge Rail Replacement Project

Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111



Legend



Staging Area (Temporary Impact)
Bridge Widening (Permanent Impact)

Project footprint







0.025

0

0.05

Bridge Rail Replacement Project Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111





Figure 3-2: Vegetation Types within the Dry Creek Bridge BSA

Bridge Rail Replacement Project Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111



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Legend





Figure 3-3: Vegetation Types within the Perfume Creek Bridge BSA

Bridge Rail Replacement Project

Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111



0

Legend





Figure 3-4: Vegetation Types within the California Drive Undercrossing Bridge BSA

Bridge Rail Replacement Project

Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111



0

0.11 Miles

Legend

Landscaped/ornamental
Existing pavement
BSA
Project footprint







EA 04-0K630/PID 0416000111

0.04 Miles 0.01 0.02 1

0

Project footprint







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LEGEND

\sim	CCC DPS steelhead critical habitat		
	California Drive Undercrossing Bridge (PM 19.04)		
	Dry Creek Bridge (PM 16.48)		
	Perfume Creek Bridge (PM 17.81)		
\bigcirc	5 Miles frm Project Locations		

Service Layer Credits: ESRI, National Geographic, DigitalGlobe, GeoEye





Figure 4-8 Federally Designated Critical Habitat within 5-miles of the BSA State Route 29 Bridge Rail Replacement Project EA 04-0K630, NAP-29 Post Mile 16.48,17.81,19.04 Napa County, California



EA 04-0K630/PID 0416000111





Figure 4-11: Impacts to Frog Habitat within the Perfume Creek Bridge BSA Bridge Rail Replacement Project Napa County, California State Route 29, Postmiles 14.1-19.0 EA 04-0K630/PID 0416000111	N 0 0.0075 0.015	0.03 Miles	Legend Permanent Impacts to aquatic habitat Temporary Impacts to aquatic habitat Permanent Impacts to upland habitat Temporary Impacts to upland habitat Upland habitat Project footprint

Dry Creek Bridge (PM 16.48)





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Perfume Creek Bridge (PM 17.81)

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California Drive Undercrossing Bridge (PM 19.04)

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State Route 29 Bridge Rail Replacement Project Initial Study with Negative Declaration

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United States Department of the Interior

FISH AND WILDLIFE SERVICE Sacramento Fish And Wildlife Office Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 Phone: (916) 414-6600 Fax: (916) 414-6713



In Reply Refer To: Septemb Consultation Code: 08ESMF00-2020-SLI-2912 Event Code: 08ESMF00-2020-E-09005 Project Name: EA: 04-0K630 Napa Bridge Widening and Rail Replacement Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

September 17, 2020

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 (916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2020-SLI-2912

Event Code: 08ESMF00-2020-E-09005

Project Name: EA: 04-0K630 Napa Bridge Widening and Rail Replacement Project

Project Type: TRANSPORTATION

Project Description: NAP 29/PM 14.11-19.04

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://</u> www.google.com/maps/place/38.38217173383745N122.34711647046525W



Counties: Napa, CA

Endangered Species Act Species

There is a total of 11 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/613</u>	Endangered
Birds	
NAME	STATUS
California Least Tern Sterna antillarum browni No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8104</u>	Endangered
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/1123</u>	Threatened

Endangered

Endangered

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/2891</u> Species survey guidelines: <u>https://ecos.fws.gov/ipac/guideline/survey/population/205/office/11420.pdf</u>	Threatened
Fishes	
NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/321</u>	Threatened
Crustaceans	
NAME	STATUS
California Freshwater Shrimp <i>Syncaris pacifica</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/7903</u>	Endangered
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/8246</u>	Endangered
Flowering Plants	
NAME	STATUS
Contra Costa Goldfields <i>Lasthenia conjugens</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/7058</u>	Endangered
Few-flowered Navarretia Navarretia leucocephala ssp. pauciflora (=N.	Endangered

pauciflora) No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8242</u>

- Sebastopol Meadowfoam *Limnanthes vinculans* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/404</u>
- Showy Indian Clover *Trifolium amoenum* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6459</u>

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Barbare, Holly/BAO

From:	NMFSWCRCA Specieslist - NOAA Service Account
Sent:	Friday Sentember 18, 2020 1:01 PM
To:	Barbare, Holly@DOT
Subject:	Re: NMFS Species List for EA: 04-0K630 Napa Bridge Widening and Rail Replacement Project

EXTERNAL EMAIL. Links/attachments may not be safe.

Receipt of this message confirms that NMFS has received your email to mmfswcrca.specieslist@noaa.gov. If you are a federal agency (or representative) and have followed the steps outlined on the California Species List Tools web page (http://www.westcoast.fisheries.noaa.gov/maps_data/california_species_list_tools.html), you have generated an official Endangered Species List.

Messages sent to this email address are not responded to directly. For project specific questions, please contact your local NMFS office.

Northern California/Klamath (Arcata) 707-822-7201

North-Central Coast (Santa Rosa) 707-387-0737

Southern California (Long Beach) 562-980-4000

California Central Valley (Sacramento) 916-930-3600

Barbare, Holly/BAO

From:	Barbare, Holly@DOT <holly.barbare@dot.ca.gov></holly.barbare@dot.ca.gov>
Sent:	Friday, September 18, 2020 1:01 PM
То:	nmfswcrca.specieslist@noaa.gov
Subject:	NMFS Species List for EA: 04-0K630 Napa Bridge Widening and Rail Replacement Project

The California Department of Transportation, as assigned by the Federal Highway Administration, proposes the Napa Bridge Widening and Rail Replacement Project on State Route 29 at post miles 16.48, 17.81, and 19.04 in Napa County, California to upgrade the existing bridge rails and widen the roadway at Dry Creek Bridge, Perfume Creek Bridge, and California Drive Undercrossing Bridge. The Project is located within the Yountville and Napa United States Geological Survey 7.5-minute topographic quadrangles.

Project Name:

EA: 04-0K630 Napa Bridge Widening and Rail Replacement Project

Agency Name and Address:

California Department of Transportation, District 4 111 Grand Ave. Oakland, CA 94612

Mailing Address:

California Department of Transportation District 4 P.O. Box 236600 Oakland, CA 94623-0660

Point of Contact:

Robert Blizard, MS Branch Chief, North Counties Office of Biological Sciences and Permits 510-286-6238 Robert.Blizard@dot.ca.gov

The following species list was generated from the NOAA Fisheries Google Earth tool ("nmfs_wcr_ca_species_list_december_2016.kmz") downloaded from <u>https://archive.fisheries.noaa.gov/wcr/maps_data/california_species_list_tools.html</u> on September 17, 2020. An "X" following a listed feature indicates it may be present.

Quad Name Yountville

Quad Number 38122-D3

ESA Anadromous Fish

SONCC Coho ESU (T) -CCC Coho ESU (E) -CC Chinook Salmon ESU (T) -CVSR Chinook Salmon ESU (T) -SRWR Chinook Salmon ESU (E) -NC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -SC Steelhead DPS (E) -CCV Steelhead DPS (T) -Eulachon (T) sDPS Green Sturgeon (T) -ESA Anadromous Fish Critical Habitat SONCC Coho Critical Habitat -CCC Coho Critical Habitat -CC Chinook Salmon Critical Habitat -CVSR Chinook Salmon Critical Habitat -SRWR Chinook Salmon Critical Habitat -NC Steelhead Critical Habitat -CCC Steelhead Critical Habitat -X SCCC Steelhead Critical Habitat -SC Steelhead Critical Habitat -CCV Steelhead Critical Habitat -Eulachon Critical Habitat sDPS Green Sturgeon Critical Habitat -ESA Marine Invertebrates Range Black Abalone (E) -Range White Abalone (E) -ESA Marine Invertebrates Critical Habitat Black Abalone Critical Habitat -ESA Sea Turtles East Pacific Green Sea Turtle (T) -Olive Ridley Sea Turtle (T/E) -Leatherback Sea Turtle (E) -North Pacific Loggerhead Sea Turtle (E) -ESA Whales Blue Whale (E) -Fin Whale (E) -Humpback Whale (E) -Southern Resident Killer Whale (E) -North Pacific Right Whale (E) -Sei Whale (E) -Sperm Whale (E) -ESA Pinnipeds Guadalupe Fur Seal (T) -Steller Sea Lion Critical Habitat -Essential Fish Habitat Coho EFH -Х Chinook Salmon EFH -Groundfish EFH -

Coastal Pelagics EFH -Highly Migratory Species EFH -<u>MMPA Species (See list at left)</u> <u>ESA and MMPA Cetaceans/Pinnipeds</u> See list at left and consult the NMFS Long Beach office 562-980-4000 MMPA Cetaceans -MMPA Pinnipeds -

X

Quad Name Napa

Quad Number 38122-C3

<u>ESA Anadromous Fish</u>

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -CCC Coho Critical Habitat -CC Chinook Salmon Critical Habitat -CVSR Chinook Salmon Critical Habitat -SRWR Chinook Salmon Critical Habitat -NC Steelhead Critical Habitat -X CCC Steelhead Critical Habitat -SCCC Steelhead Critical Habitat -SC Steelhead Critical Habitat -CCV Steelhead Critical Habitat -Eulachon Critical Habitat sDPS Green Sturgeon Critical Habitat -X ESA Marine Invertebrates Range Black Abalone (E) -Range White Abalone (E) -ESA Marine Invertebrates Critical Habitat Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -Olive Ridley Sea Turtle (T/E) -Leatherback Sea Turtle (E) -North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -Fin Whale (E) -Humpback Whale (E) -Southern Resident Killer Whale (E) -North Pacific Right Whale (E) -Sei Whale (E) -Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -

Steller Sea Lion Critical Habitat -

<u>Essential Fish Habitat</u>

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH -

Coastal Pelagics EFH -

Highly Migratory Species EFH -

MMPA Species (See list at left)

<u>ESA and MMPA Cetaceans/Pinnipeds</u> See list at left and consult the NMFS Long Beach office 562-980-4000 MMPA Cetaceans -MMPA Pinnipeds -

X X

X

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*The database used to provide updates to the Online Inventory is under construction. <u>View updates and changes made since May 2019 here</u>.

Plant List

37 matches found. Click on scientific name for details

Search Criteria
Found in Quads 3812243 and 3812233;

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<u>Allium peninsulare var.</u> franciscanum	Franciscan onion	Alliaceae	perennial bulbiferous herb	(Apr)May-Jun	1B.2	S2	G5T2
Amorpha californica var. napensis	Napa false indigo	Fabaceae	perennial deciduous shrub	Apr-Jul	1B.2	S2	G4T2
Astragalus clevelandii	Cleveland's milk-vetch	Fabaceae	perennial herb	Jun-Sep	4.3	S4	G4
Astragalus tener var. tener	alkali milk-vetch	Fabaceae	annual herb	Mar-Jun	1B.2	S1	G2T1
Brodiaea leptandra	narrow-anthered brodiaea	Themidaceae	perennial bulbiferous herb	May-Jul	1B.2	S3?	G3?
Calandrinia breweri	Brewer's calandrinia	Montiaceae	annual herb	(Jan)Mar-Jun	4.2	S4	G4
Calycadenia micrantha	small-flowered calycadenia	Asteraceae	annual herb	Jun-Sep	1B.2	S2	G2
<u>Castilleja ambigua var. ambigua</u>	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	4.2	S3S4	G4T4
<u>Castilleja ambigua var. meadii</u>	Mead's owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	Apr-May	1B.1	S1	G4T1
Ceanothus purpureus	holly-leaved ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Jun	1B.2	S2	G2
<u>Clarkia gracilis ssp. tracyi</u>	Tracy's clarkia	Onagraceae	annual herb	Apr-Jul	4.2	S3	G5T3
<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
Erigeron greenei	Greene's narrow-leaved daisy	Asteraceae	perennial herb	May-Sep	1B.2	S3	G3
<u>Eryngium jepsonii</u>	Jepson's coyote thistle	Apiaceae	perennial herb	Apr-Aug	1B.2	S2?	G2?
<u>Extriplex joaquinana</u>	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S2	G2
<u>Harmonia nutans</u>	nodding harmonia	Asteraceae	annual herb	Mar-May	4.3	S3	G3
Hesperolinon bicarpellatum	two-carpellate western flax	Linaceae	annual herb	May-Jul	1B.2	S2	G2
Hesperolinon sharsmithiae	Sharsmith's western flax	Linaceae	annual herb	May-Jul	1B.2	S2	G2Q
<u>Juglans hindsii</u>	Northern California black walnut	Juglandaceae	perennial deciduous tree	Apr-May	1B.1	S1	G1
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	1B.1	S1	G1
<u>Lathyrus jepsonii var. jepsonii</u>	Delta tule pea	Fabaceae	perennial herb	May-Jul(Aug- Sep)	1B.2	S2	G5T2
<u>Leptosiphon jepsonii</u>	Jepson's leptosiphon	Polemoniaceae	annual herb	Mar-May	1B.2	S2S3	G2G3
Leptosiphon latisectus	broad-lobed leptosiphon	Polemoniaceae	annual herb	Apr-Jun	4.3	S4	G4
<u>Lilaeopsis masonii</u>	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	1B.1	S2	G2
Limnanthes vinculans	Sebastopol meadowfoam	Limnanthaceae	annual herb	Apr-May	1B.1	S1	G1
Lomatium repostum	Napa lomatium	Apiaceae	perennial herb	Mar-Jun	4.3	S3	G3
Micropus amphibolus	Mt. Diablo cottonweed	Asteraceae	annual herb	Mar-May	3.2	S3S4	G3G4
Monardella viridis	green monardella	Lamiaceae	perennial rhizomatous herb	Jun-Sep	4.3	S3	G3
<u>Navarretia leucocephala ssp.</u> pauciflora	few-flowered navarretia	Polemoniaceae	annual herb	May-Jun	1B.1	S1	G4T1
<u>Penstemon newberryi var.</u> <u>sonomensis</u>	Sonoma beardtongue	Plantaginaceae	perennial herb	Apr-Aug	1B.3	S2	G4T2
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	4.2	S3	G4
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	1B.2	S3	G3
Streptanthus hesperidis	green jewelflower	Brassicaceae	annual herb	May-Jul	1B.2	S2	G2
Symphyotrichum lentum	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May-Nov	1B.2	S2	G2
Trichostema ruygtii	Napa bluecurls	Lamiaceae	annual herb	Jun-Oct	1B.2	S1S2	G1G2
Trifolium amoenum	two-fork clover	Fabaceae	annual herb	Apr-Jun	1B.1	S1	G1
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2	S2	G2

Suggested Citation

California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 20 October 2020].

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The Consortium of California Herbaria CalPhotos

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California Natural Diversity Database

 Query Criteria:
 Quad IS (Napa (3812233) OR Yountville (3812243) OR Yountville (3812243) OR Cuttings Wharf (3812223) OR Sears Point (3812224))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Adela oplerella	IILEE0G040	None	None	G2	S2	
Opler's longhorn moth						
Agelaius tricolor	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
tricolored blackbird						
Allium peninsulare var. franciscanum	PMLIL021R1	None	None	G5T2	S2	1B.2
Franciscan onion						
Amorpha californica var. napensis	PDFAB08012	None	None	G4T2	S2	1B.2
Napa false indigo						
Amsinckia lunaris	PDBOR01070	None	None	G3	S3	1B.2
bent-flowered fiddleneck						
Andrena blennospermatis	IIHYM35030	None	None	G2	S2	
Blennosperma vernal pool andrenid bee						
Antrozous pallidus	AMACC10010	None	None	G5	S3	SSC
pallid bat						
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Arctostaphylos stanfordiana ssp. decumbens	PDERI041G4	None	None	G3T1	S1	1B.1
Rincon Ridge manzanita						
Ardea alba	ABNGA04040	None	None	G5	S4	
great egret						
Ardea herodias	ABNGA04010	None	None	G5	S4	
great blue heron						
Astragalus claranus	PDFAB0F240	Endangered	Threatened	G1	S1	1B.1
Clara Hunt's milk-vetch						
Astragalus tener var. tener	PDFAB0F8R1	None	None	G2T1	S1	1B.2
alkali milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Balsamorhiza macrolepis	PDAST11061	None	None	G2	S2	1B.2
big-scale balsamroot						
Blennosperma bakeri	PDAST1A010	Endangered	Endangered	G1	S1	1B.1
Sonoma sunshine						
Bombus caliginosus	IIHYM24380	None	None	G4?	S1S2	
obscure bumble bee						
Bombus occidentalis	IIHYM24250	None	Candidate	G2G3	S1	
western bumble bee			Endangered			
Branchinecta lynchi	ICBRA03030	Threatened	None	G3	S3	
vernal pool fairy shrimp						





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Brodiaea leptandra	PMLIL0C022	None	None	G3?	S3?	1B.2
narrow-anthered brodiaea						
Buteo regalis	ABNKC19120	None	None	G4	S3S4	WL
ferruginous hawk						
Buteo swainsoni	ABNKC19070	None	Threatened	G5	S3	
Swainson's hawk						
Calasellus californicus	ICMAL34010	None	None	G2	S2	
An isopod						
Carex lyngbyei	PMCYP037Y0	None	None	G5	S3	2B.2
Lyngbye's sedge						
Castilleja ambigua var. meadii	PDSCR0D404	None	None	G4T1	S1	1B.1
Mead's owls-clover						
Ceanothus confusus	PDRHA04220	None	None	G1	S1	1B.1
Rincon Ridge ceanothus						
Ceanothus divergens	PDRHA04240	None	None	G2	S2	1B.2
Calistoga ceanothus						
Ceanothus purpureus	PDRHA04160	None	None	G2	S2	1B.2
holly-leaved ceanothus						
Ceanothus sonomensis	PDRHA04420	None	None	G2	S2	1B.2
Sonoma ceanothus						
Centromadia parryi ssp. parryi pappose tarplant	PDAST4R0P2	None	None	G3T2	S2	1B.2
Charadrius alexandrinus nivosus	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
western snowy plover						
Chloropyron molle ssp. molle	PDSCR0J0D2	Endangered	Rare	G2T1	S1	1B.2
soft salty bird's-beak						
Circus hudsonius	ABNKC11011	None	None	G5	S3	SSC
northern harrier						
Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
		Nono	Nono	C4	6160	880
vellow rail	ADINIZEDIUTU	none	None	64	5152	330
Cursoloidos nigor		None	None	C4	S 2	SSC
black swift		None	None	04	02	000
Danaus nlexinnus non 1		None	None	G4T2T3	\$253	
monarch - California overwintering population		None	None	041213	0200	
Dicamptodon ensatus	AAAAH01020	None	None	63	\$2\$3	SSC
California giant salamander	///////////////////////////////////////	Hono	None	00	0200	000
Downingia pusilla	PDCAM060C0	None	None	GU	S2	2B.2
dwarf downingia						
Elanus leucurus	ABNKC06010	None	None	G5	S3S4	FP
white-tailed kite					-	





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Erethizon dorsatum	AMAFJ01010	None	None	G5	S3	
North American porcupine						
Erigeron greenei	PDAST3M5G0	None	None	G3	S3	1B.2
Greene's narrow-leaved daisy						
Eryngium jepsonii	PDAPI0Z130	None	None	G2	S2	1B.2
Jepson's coyote-thistle						
Extriplex joaquinana	PDCHE041F3	None	None	G2	S2	1B.2
San Joaquin spearscale						
Geothlypis trichas sinuosa	ABPBX1201A	None	None	G5T3	S3	SSC
saltmarsh common yellowthroat						
Gonidea angulata	IMBIV19010	None	None	G3	S1S2	
western ridged mussel						
Haliaeetus leucocephalus	ABNKC10010	Delisted	Endangered	G5	S3	FP
bald eagle						
Hemizonia congesta ssp. congesta	PDAST4R065	None	None	G5T2	S2	1B.2
congested-headed hayfield tarplant						
Hesperolinon sharsmithiae	PDLIN010E0	None	None	G2Q	S2	1B.2
Sharsmith's western flax						
Horkelia tenuiloba	PDROS0W0E0	None	None	G2	S2	1B.2
thin-lobed horkelia						
Hydroprogne caspia	ABNNM08020	None	None	G5	S4	
Caspian tern						
Hypomesus transpacificus	AFCHB01040	Threatened	Endangered	G1	S1	
Delta smelt						
Lasthenia conjugens	PDAST5L040	Endangered	None	G1	S1	1B.1
Contra Costa goldfields						
Laterallus jamaicensis coturniculus	ABNME03041	None	Threatened	G3G4T1	S1	FP
				0-70		15.0
Lathyrus jepsonii var. jepsonii	PDFAB250D2	None	None	G512	S2	1B.2
				00	00	
	PDCAM0C010	None	None	G2	S2	1B.1
		Nama	Nama	<u></u>	0000	40.0
Leptosipnon jepsonii	PDPLM09140	None	None	6263	5253	1B.2
		Nono	Para	<u></u>	6 0	10 1
Mason's lilaeonsis	FDAF119030	None	Raie	Gz	32	ID.I
		Endangorod	Endangered	C1	S 1	1B 1
Sebastonol meadowfoam		Linuariyereu	Linuangered	91	51	10.1
Luninus sericatus		None	None	G22	S22	1B 2
Cobb Mountain lupine		140110		02:	52:	10.2





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFV SSC or FP
Melospiza melodia samuelis	ABPBXA301W	None	None	G5T2	S2	SSC
San Pablo song sparrow						
Navarretia leucocephala ssp. pauciflora	PDPLM0C0E4	Endangered	Threatened	G4T1	S1	1B.1
few-flowered navarretia						
Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
Northern Coastal Salt Marsh						
Northern Vernal Pool	CTT44100CA	None	None	G2	S2.1	
Northern Vernal Pool						
Nycticorax nycticorax	ABNGA11010	None	None	G5	S4	
black-crowned night heron						
Oncorhynchus mykiss irideus pop. 8	AFCHA0209G	Threatened	None	G5T2T3Q	S2S3	
steelhead - central California coast DPS						
Penstemon newberryi var. sonomensis	PDSCR1L483	None	None	G4T3	S3	1B.3
Sonoma beardtongue						
Phalacrocorax auritus	ABNFD01020	None	None	G5	S4	WL
double-crested cormorant						
Pogonichthys macrolepidotus	AFCJB34020	None	None	GNR	S3	SSC
Sacramento splittail						
Polygonum marinense	PDPGN0L1C0	None	None	G2Q	S2	3.1
Marin knotweed						
Rallus obsoletus obsoletus	ABNME05011	Endangered	Endangered	G5T1	S1	FP
California Ridgway's rail						
Rana boylii	AAABH01050	None	Endangered	G3	S3	SSC
foothill yellow-legged frog						
Rana draytonii	AAABH01022	Threatened	None	G2G3	S2S3	SSC
California red-legged frog		Endermond.	Ender word	0400	0400	
Reithrodontomys raviventris	AMAFF02040	Endangered	Endangered	GIG2	5152	FP
		Nana	Threatened	CF.	60	
kiparia riparia	ABPAU00010	None	Inreatened	G5	52	
Sagittaria confordii		Nono	Nono	G3	63	18.2
Sanford's arrowhead	FINALI040Q0	None	None	65	33	10.2
Soray ornatus sinuosus	AMABA01103	None	None	G5T1T2O	S1S2	SSC
Suisun shrew	AMADACTICS	None	None	Conned	0102	000
Speveria zerene sonomensis	III EP. 16083	None	None	G5T1	S1	
Sonoma zerene fritillarv		None	None	0011	01	
Spirinchus thaleichthys	AFCHB03010	Candidate	Threatened	G5	S1	
longfin smelt		Canada			•••	
Streptanthus hesperidis	PDBRA2G510	None	None	G2	S2	1B.2
green jewelflower				-		
Stygobromus cowani	ICMAL05D70	None	None	G1	S1	
Cowan's amphipod						





Spacios	Element Code	Endoral Status	State Status	Global Bank	State Bank	Rare Plant Rank/CDFW
		Nege	State Status			
Symphyotrichum lentum	PDASTE8470	None	None	GZ	52	1B.2
Suisun Marsh aster						
Syncaris pacifica	ICMAL27010	Endangered	Endangered	G2	S2	
California freshwater shrimp						
Taricha rivularis	AAAAF02020	None	None	G4	S2	SSC
red-bellied newt						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Trachusa gummifera	IIHYM80010	None	None	G1	S1	
San Francisco Bay Area leaf-cutter bee						
Trichostema ruygtii	PDLAM220H0	None	None	G1G2	S1S2	1B.2
Napa bluecurls						
Trifolium amoenum	PDFAB40040	Endangered	None	G1	S1	1B.1
two-fork clover						
Trifolium hydrophilum	PDFAB400R5	None	None	G2	S2	1B.2
saline clover						
Viburnum ellipticum	PDCPR07080	None	None	G4G5	S3?	2B.3
oval-leaved viburnum						

Record Count: 91

Appendix I Response to Comments

Comment Erikson, G_CDFW

DocuSign Envelope ID: EB74DD89-797E-4D7A-8E1C-06562240E5D4

State of California Department of Fish and Wildlife

Memorandum

Date: August 21, 2020

T₀: Ms. Lindsay Vivian California Department of Transportation, District 4 Post Office Box 23660, MS-8B Oakland, CA 94623 Lindsay.Vivian@dot.ca.gov

> Docusigned by: Stacy Shurman for

- From: Mr. Gregg Erickson, Regional Manager California Department of Fish and Wildlife-Bay Delta Region, 2825 Cordelia Road, Suite 100, Fairfield, CA 94534
- subject: State Route 29 Bridge Rail Replacement Project, Initial Study/Negative Declaration, SCH No. 2020070443, Napa County

The California Department of Fish and Wildlife (CDFW) has reviewed the proposed Initial Study and Negative Declaration (IS/ND) for the proposed State Route – 29 Bridge Rail Replacement Project (Project) pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.¹ Pursuant to our jurisdiction, CDFW is submitting comments on the IS/ND as a means to inform the California Department of Transportation (Caltrans) as the Lead Agency, of our concerns regarding potentially significant impacts to sensitive resources associated with the proposed Project.

PROJECT LOCATION AND DESCRIPTION SUMMARY

Caltrans proposes to improve existing bridge rails at three individual bridges on State Route (SR)-29 in Napa County from post-mile (PM) 16.48 to PM 19.04 at Dry Creek Bridge (PM 16.48), Perfume Creek Bridge (PM 17.81) and California Drive Undercrossing Bridge at PM 19.04. The existing bridge rails on Dry Creek Bridge would be replaced with concrete barrier type 836 (modified for bike railing) in both directions. The northbound side of the bridge will require an extension of 5 feet 3 inches in width by either the cantilever method or the use of cast-in-drilled-hole (CIDH) piles, and the southbound side will require the installation of carbon fiber reinforced polymer. In addition, the retaining walls at abutments 1 and 3 would be reconstructed and CIDH piles would be added at the footing of Pier 2. A concrete block and Midwest Guardrail System (MGS) would also be installed along the approach sections of the bridge in both directions. Other work would include removing and repairing concrete.

The existing bridge rails on Perfume Creek Bridge will be replaced with concrete barrier type 836 (modified for bike railing) in both directions. The southbound side will require an extension of the existing concrete double box culvert by 4 feet 4 inches and the



¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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construction of a new wing wall. The southbound shoulder will be widened to match the new width of the box culvert. A concrete block and MGS will be installed along the approach and departure sections of the bridge for the northbound direction and only the approach end for the southbound direction. The existing bridge rails on California Drive Undercrossing Bridge will be replaced with concrete barrier type 836 (modified for bike railing) in both directions. The northbound side of the bridge will be widened by 5 feet 4 inches and the southbound side will be widened by 2 feet 11 inches. The southbound side will require the installation of carbon fiber reinforced polymer. In addition, the top 3 feet of the existing retaining wall will be removed and new wing/closure walls will be constructed at the bridge piers and abutments using CIDH piles. A concrete block and MGS will also be installed for the bridge at the approach end in both directions. Other construction work will include repairing soffit lights, changing vertical clearance warning signs, and painting missing bridge identification signs.

The Biological Study Area (BSA) includes the area surveyed to identify, evaluate, and quantify the natural resource potentially affected by the Project. A BSA was established for each bridge location, consisting of the entire Project footprint surrounded by a buffer distance of 50 feet to account for the direct and indirect effects that could result from Project activities. The BSA contains four types of vegetation including Riparian, Ruderal, Developed Land/Agriculture, and Landscape/Ornamental. The BSA was also found to support 0.25 acre of other waters of the U.S. but did not contain any wetlands.

CDFW ROLE

CDFW is a Trustee Agency with responsibility under CEQA §15386 for commenting on projects that could impact fish, plant and wildlife resources. CDFW is also considered a Responsible Agency if a project would require discretionary approval, such as permits issued under the California Endangered Species Act, the Native Plant Protection Act, the Lake and Streambed Alteration (LSA) Program and other provisions of the Fish and **Game Code that afford protection to the State's fish and wildlife trust resources**.

LAKE AND STREAMBED ALTERATION AGREEMENT

Please be advised that the proposed Project may be subject to LSA Notification for impacts to drainage systems that connect to tributaries of main stem creeks and tributaries that occur within the Project BSA. CDFW requires an LSA Notification, pursuant to Fish and Game Code section 1600 et. seq., for or any activity that may substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank including associated riparian or wetland resources; or deposit or dispose of material where it may pass into a river, lake or stream. Work within ephemeral streams, washes, watercourses with a subsurface flow, and floodplains are subject to notification requirements.

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CALIFORNIA ENDANGERED SPECIES ACT

The proposed Project has the potential to impact California freshwater shrimp (*Syncaris pacifica*), a species designated as endangered pursuant to CESA. Please be advised that a CESA Incidental Take Permit (ITP) must be obtained if the Project has the potential to result in take of species of plants or animals listed under CESA, either during construction or over the life of the Project. **Under CESA, take is defined as "to** hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, **catch, capture or kill."** Issuance of an ITP is subject to CEQA documentation. If the Project will impact CESA-listed species, early consultation is encouraged, as significant modification to the Project and mitigation measures may be required in order to obtain a CESA Permit.

COMMENTS AND RECOMMENDATIONS

CDFW acting as a Responsible Agency, has discretionary approval under CESA through issuance of an ITP and an LSA Agreement as well as other provisions of the Fish and Game Code that afford protection to the **State's fish and wildlife trust** resources. CDFW would like to thank you for preparing the IS/ND and including the appropriate avoidance and mitigation measures imposed as conditions of Project approval by the lead agency, the California Department of Transportation, that will ensure all Project-related impacts are mitigated to below a level of significance under CEQA. Provided, the lead agency implements and adheres to the Project as described in the IS/ND and implements the avoidance and minimization measures related to the Biological Resources section of the Negative Declaration pursuant to CEQA, CDFW has no further comment in regards to the Project noted herein.

CONCLUSION

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Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California's fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

Questions regarding this letter or further coordination should be directed to Mr. Robert Stanley, Senior Environmental Scientist (Specialist), at (707) 428-2093 or <u>Robert.Stanley@wildlife.ca.gov</u>; or Mr. Craig Weightman, Environmental Program Manager, at (707) 944-5577 or <u>Craig.Weightman@wildlife.ca.gov</u>.

cc: State Clearinghouse #2020070443

Response to Comment Erikson, G_CDFW Response to Comment 1: California Department of Fish and Wildlife Role under CEQA

Caltrans acknowledges that CDFW is a Trustee Agency and a Responsible Agency under CEQA for this Project. The Project would require discretionary approvals (permits) from CDFW. This includes a Fish and Game Code Section 1600 Lake and Streambed Alteration Agreement for construction activities in Dry Creek and a California Endangered Species Act (CESA) Incidental Take Permit for construction activities at Dry Creek, as high-quality suitable habitat for the California freshwater shrimp (CFS) was identified within the Dry Creek Bridge Biological Study Area. This was stated in the Biological Resources section of the IS/ND on page 3-14: "construction activities within the site could result in a potential take in the form of harassment, injury, or death of individual CFS from ground disturbance, inadvertent entrapment, or temporary disruptions of normal behavior. As a result, Caltrans anticipates obtaining an Incidental Take Permit from CDFW for the Project."

Response to Comment 2: Lake and Streambed Alteration Agreement

As stated under the response to Comment 1, Caltrans acknowledges that a Lake and Streambed Alteration Agreement would be required from CDFW for the Project. This approval would be for construction work areas within the bed and banks of Dry Creek. The Biological Resources section of the IS/ND addresses this potential impact with Avoidance and Minimization Measures (AMMs) BIO-1 through BIO-8.

Response to Comment 3: California Endangered Species Act

As stated under the response to Comment 1, Caltrans acknowledges that a CESA Incidental Take Permit would be required for the construction activities within CFS habitat. This permit application will be submitted to CDFW during the design phase of the Project, and early consultation with CDFW regarding the CFS will be initiated.

Response to Comment 4: Comments and Recommendations

Comment noted. As recommended by CDFW, Caltrans will implement the appropriate AMMs as detailed in the Biological Resources section of the IS/ND to ensure all Project-related impacts are reduced to less than significant. These measures will be incorporated into the Environmental Commitment Record for the Project.