### **Grapevine Culvert Repair Project**

On Interstate 5 near the Community of Grapevine 06-KER-I5-7.5/9.0 0W160/06-1700-0097 SCH #2019029144

# Initial Study with Mitigated Negative Declaration



Prepared by the State of California Department of Transportation

April 2019



#### **General Information About This Document**

#### What's in this document:

This document contains a Mitigated Negative Declaration that examines the environmental effects of the proposed project on Interstate 5 in Kern County between post mile 7.5 to post mile 9.0.

The Initial Study and proposed Mitigated Negative Declaration was circulated to the public from February 26, 2019 to March 26, 2019. An email was received and is included in Appendix F. This section of the document was added after the draft was circulated. Elsewhere throughout this document, a line in the right margin indicates a change to the document since the draft was circulated.

#### What happens after this:

The proposed project has completed environmental compliance after the circulation of this document. When funding is approved, the California Department of Transportation, as assigned by the Federal Highway Administration, can design and build all or part of the project.

For individuals with sensory disabilities, this document is available in Braille, in large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please write to or call Caltrans, Attn: Attn: G. William "Trais" Norris III, Southern San Joaquin Valley Management Branch, 855 M Street, Suite 200, Fresno, CA 93721; (559) 445-6447 (Voice), or use California Relay Service 1 (800) 735-2929 (TTY), 1 (800) 735-2929 (Voice), or 711.

Upgrade culvert drainage systems on the Grapevine through Tejon Pass on Interstate 5 from post miles 7.5 to 9.0

# INITIAL STUDY with Mitigated Negative Declaration

Submitted Pursuant to: (State) Division 13, California Public Resources Code

THE STATE OF CALIFORNIA Department of Transportation

Date

G. William "Trais" Norris N

Senior Environmental Planner

California Department of Transportation

#### **Mitigated Negative Declaration**

Pursuant to: Division 13, Public Resources Code

#### **Project Description**

The California Department of Transportation (Caltrans) proposes to repair concrete box culverts located within the median and outside shoulders of Interstate 5 between post miles 7.5 and 9.0 within the Tejon Pass in Kern County. Heavy rain and mud flows through this steep mountain pass during storms have damaged the concrete channel that lies between the northbound and southbound lanes of Interstate 5. Culverts along the channel have been damaged over time by the flow of storm water, mud and debris, requiring repair.

#### Determination

Caltrans has prepared an Initial Study for this project and, following public review, has determined from this study that the project would not have a significant effect on the environment for the following reasons.

The proposed project would have no effect on existing or future land use, wild and scenic rivers, parks and recreational facilities, farmlands/timberlands, growth, the community, utilities, emergency services, traffic, transportation, pedestrian and bicycle facilities, visual characteristics/aesthetics, historic resources, archaeological resources, the floodplain, geology, soils, seismic activity, topography, wetlands and other waters, air quality, noise, hydrology and water quality.

In addition, the proposed project would have a less than significant effect on hazardous waste/materials and migratory wildlife.

The proposed project would not have a significant adverse effect on special-status species because the following mitigation measures would reduce potential effects to a less than significant level:

- Preconstruction species surveys, environmentally sensitive area fencing, and biological
  monitoring (where required) would avoid and minimize impacts to special-status species. Any
  potential Tehachapi slender salamander habitat impacted by construction activities would be
  restored by revegetation with a native seed mix and replacement of any boulders or rocks that
  may serve as shelter.
- Topsoil would be collected and salvaged from areas where any flowering populations within
  the work site are found. This topsoil would be spread over areas temporarily impacted, within
  or as close to the original location as possible once work is completed. Seed collection or
  transplantation of plants would occur if necessary.

4/4/2019 Date

G. William "Trais" Norris III Senior Environmental Planner

California Department of Transportation

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## **Project Description and Background**

#### Project Title

Grapevine Culvert Repair

#### **Project Location**

Interstate 5 between post miles 7.5 and 9.0 within the Tejon Pass in Kern County.

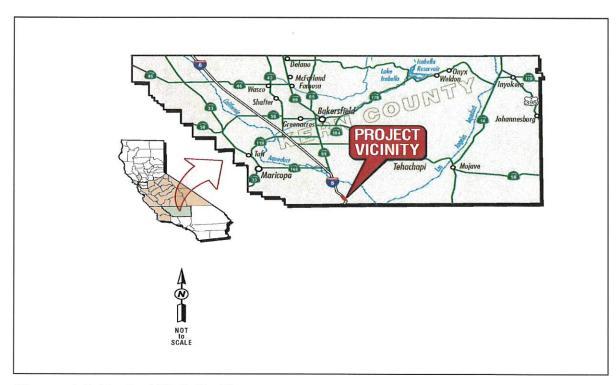


Figure 1-1 Project Vicinity Map

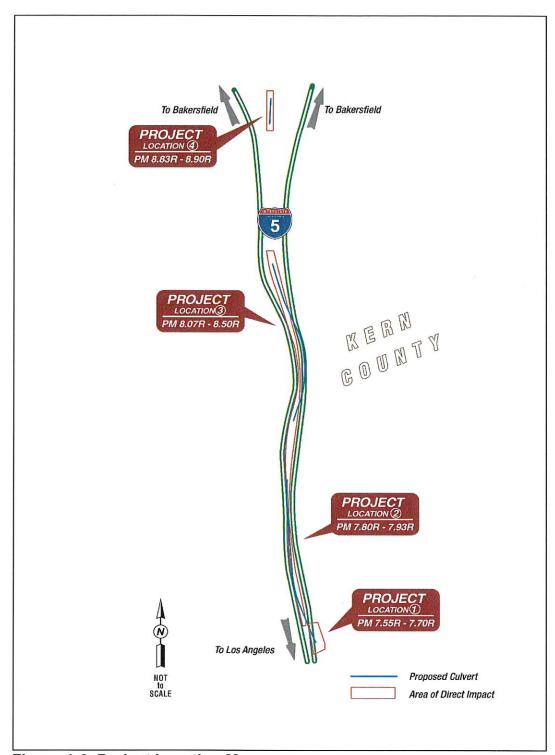


Figure 1-2 Project Location Map

#### Description of Project

The California Department of Transportation (Caltrans) proposes to repair concrete box culverts located within the median and outside shoulders of Interstate 5 between post miles 7.5 and 9.0 within the Tejon Pass in Kern County. See Figures 1-1 and 1-2. Heavy rain and mud flows through this steep mountain pass during storms have damaged the concrete channel that lies between the northbound and southbound lanes of Interstate 5. Culverts along the channel have been damaged over time by the flow of storm water, mud and debris, requiring repair.

#### Surrounding Land Uses and Setting

The project lies in the concrete channel of Grapevine Creek between the northbound and southbound lanes of Interstate 5. It is located in a steep mountain pass used for travel between the San Joaquin Valley and Southern California.

#### Other Public Agencies Whose Approval is Required

A 1600 Streambed Alteration Agreement with the California Department of Fish and Wildlife would be required for the project and obtained during the Plans, Specifications and Estimate phase. If the Tehachapi slender salamander is found during preconstruction surveys, which is not currently anticipated, consultation with the California Department of Fish and Wildlife would occur. Through this consultation, Caltrans would seek a 2081 Incidental Take Permit and compensatory mitigation would be required.

Agency	Permit/Approval	Status
California Department of Fish and Wildlife	1602 Agreement for Streambed Alteration	Application for the 1602 permit agreement is expected after approval of the final environmental document. Permit approval would be needed prior to the start of construction.
Regional Water Quality Control Board	401 Certification	Application for the 401 certification is expected after approval of the final environmental document. Permit approval would be needed prior to the start of construction.

# **CEQA Environmental Checklist**

06-KER-I5	7.5/9.0	0W160				
DistCoRte.	P.M/P.M.		E./	۹.		
This checklist 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 projects indicate no impacts. A NO IMPACT answer in the last column reflects this determination. Where there is a need for clarifying discussion, the discussion is included either following the applicable section of the checklist or is within the body of the environmental document itself. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.						
	, .	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact	
I. AESTHETICS: Would the project:						
a) Have a substantial adverse effect on a	scenic vista?				$\boxtimes$	
b) Substantially damage scenic resources limited to, trees, rock outcroppings, and h a state scenic highway?						
c) Substantially degrade the existing visuof the site and its surroundings?	al character or quality				$\boxtimes$	
d) Create a new source of substantial ligh adversely affect day or nighttime views in						
II. AGRICULTURE AND FOREST RESO determining whether impacts to agricultur significant environmental effects, lead agricultural Land Evaluation an Model (1997) prepared by the California I as an optional model to use in assessing and farmland. In determining whether impresources, including timberland, are significated, lead agencies may refer to inform California Department of Forestry and Fir the state's inventory of forest land, including Range Assessment Project and the Forest Project; and the forest carbon measurement provided in Forest Protocols adopted by the Resources Board. Would the project:	al resources are encies may refer to the encies may refer to the encies may refer to the encies of Conservation impacts on agriculture encies to forest ficant environmental ention compiled by the encies of the Forest and entitle the encies of the encies					
a) Convert Prime Farmland, Unique Farm Statewide Importance (Farmland), as sho prepared pursuant to the Farmland Mapp Program of the California Resources Age use?	wn on the maps ing and Monitoring					

	Significant Impact	Significant with Mitigation	Impact
o) Conflict with existing zoning for agricultural use, or a Williamson Act contract?			$\boxtimes$
c) Conflict with existing zoning for, or cause rezoning of, forest and (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))?			
d) Result in the loss of forest land or conversion of forest land to non-forest use?			$\boxtimes$
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?			
III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:			
a) Conflict with or obstruct implementation of the applicable air quality plan?			$\boxtimes$
<ul> <li>v) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</li> </ul>			
c) 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 including releasing emissions which exceed quantitative hresholds for ozone precursors)?			
d) Expose sensitive receptors to substantial pollutant concentrations?			
<ul> <li>e) Create objectionable odors affecting a substantial number of people?</li> </ul>			
V. BIOLOGICAL RESOURCES: Would the project:			
a) Have a substantial adverse effect, either directly or through nabitat 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 Game or U.S. Fish and Wildlife Service?			
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional blans, policies, regulations or by the California Department of			$\boxtimes$

	Potentially Significant Impact	Less Than Significant with Mitigation		No Impact
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?				
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?			$\boxtimes$	
<ul> <li>e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?</li> </ul>				$\boxtimes$
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?				
V. CULTURAL RESOURCES: Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?				$\boxtimes$
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				$\boxtimes$
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
d) Disturb any human remains, including those interred outside of dedicated cemeteries?				
VI. GEOLOGY AND SOILS: Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				$\boxtimes$
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?				
ii) Strong seismic ground shaking?				$\boxtimes$
iii) Seismic-related ground failure, including liquefaction?				$\boxtimes$
iv) Landslides?				$\boxtimes$
b) Result in substantial soil erosion or the loss of topsoil?				$\boxtimes$

	Potentially Significant Impact	Less Thar Significant with Mitigation		No Impact
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?				
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				
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?				
VII. GREENHOUSE GAS EMISSIONS: Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?  b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Caltrans has used the best available information based to the extent possible on scientific and factual information, to describe, calculate, or estimate the amount of greenhouse gas emissions that may occur related to this project. The analysis included in the climate change section of this document provides the public and decision-makers as much information about the project as possible. It is Caltrans' determination that in the absence of statewide-adopted thresholds or GHG emissions limits, it is too speculative to make a significance determination regarding an individual project's direct and indirect impacts with respect to global climate change. Caltrans remains committed to implementing measures to reduce the potential effects of the project. These measures are outlined in the climate change section of the document.			
VIII. HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
<ul> <li>a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?</li> </ul>			$\boxtimes$	
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?				$\boxtimes$
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				

	Significant Impact	Significant with Mitigation	Impact
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?			
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 for people residing or working in the project area?			$\boxtimes$
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?			$\boxtimes$
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			$\boxtimes$
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?			
IX. HYDROLOGY AND WATER QUALITY: Would the project:			
a) Violate any water quality standards or waste discharge requirements?			
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?			
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?			
e) 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?			
f) Otherwise substantially degrade water quality?			$\boxtimes$

	Potentially Significant Impact	Less Than Significant with Mitigation	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?			
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?			$\boxtimes$
<ul> <li>i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?</li> </ul>			$\boxtimes$
j) Inundation by seiche, tsunami, or mudflow			
X. LAND USE AND PLANNING: Would the project:			
a) Physically divide an established community?			$\boxtimes$
b)Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?			
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?			
XI. MINERAL RESOURCES: Would the project:			
<ul> <li>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?</li> </ul>			
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?			
XII. NOISE: Would the project result in:			
Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?			
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?			$\boxtimes$

	Potentially Significant Impact	Less Than Significant with Mitigation	No Impact
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?			$\boxtimes$
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 expose people residing or working in the project area to excessive noise levels?			$\boxtimes$
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?			
XIII. POPULATION AND HOUSING: Would the project:			
a) Induce substantial 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)?			
<ul> <li>b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?</li> </ul>			$\boxtimes$
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?			
XIV. PUBLIC SERVICES:			
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?			$\boxtimes$
Police protection?			$\boxtimes$
Schools?			$\boxtimes$
Parks?			$\boxtimes$
Other public facilities?			

	Significant Impact	Significant with Mitigation	 No Impact
XV. RECREATION:			
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?			$\boxtimes$
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?			
XVI. TRANSPORTATION/TRAFFIC: Would the project:			
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?			
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?			
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?			$\boxtimes$
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			$\boxtimes$
e) Result in inadequate emergency access?			$\boxtimes$
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?			
XVII. 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:			
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources			$\boxtimes$

	Potentially Significant Impact	Less Thar Significani with Mitigation	No Impact
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.			
XVIII. UTILITIES AND SERVICE SYSTEMS: Would the project:			
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?			$\boxtimes$
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?			$\boxtimes$
e) 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?			
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?			$\boxtimes$
g) Comply with federal, state, and local statutes and regulations related to solid waste?			$\boxtimes$

	Potentially Significant Impact	Less Than Significant with Mitigation	 No Impac
XIX. MANDATORY FINDINGS OF SIGNIFICANCE			
a) Does the project have the potential to 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?			
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)?			
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			$\boxtimes$

#### Additional Explanations for Questions in the Impacts Checklist

IV. Biological Resources (checklist questions a and d)

Plant Species

#### Affected Environment

A Natural Environment Study was completed for this project on December 20, 2018.

There is suitable habitat for special-status plant species in the project region, but not inside the impact area. These species include the adobe yampah, calico monkeyflower, Lemmon's jewelflower, Tejon poppy, Palmer's Mariposa lily, Piute Mountains navarretia, and umbrella larkspur.

The adobe yampah (*Perideridia pringlei*) is a perennial herb that is native and endemic to California. It is found in serpentinite, clay soils in chaparral, cismontane woodland, coastal scrub, and pinyon/juniper woodlands between 980 and 5,000 feet in elevation. This plant blooms between April and June. This species is listed as a California Native Plant Society rare plant with a rank of 4.3 (limited distribution).

The calico monkeyflower (*Diplacus pictus*) is an annual herb found in granitic or disturbed areas in broadleafed upland forest and cismontane woodland habitats between 320 and 4,700 feet in elevation. This plant blooms between March and May. This species is listed as a California Native Plant Society rare plant with a rank of 1B.2 (fairly endangered in California).

Lemmon's jewelflower (Caulanthus lemmonii) is an annual herb found in pinyon and juniper woodland and valley and foothill grassland habitats below 5,200 feet in elevation. This plant blooms between February and May and is listed as a California Native Plant Society rare plant with a rank of 1B.2 (fairly endangered in California).

The Tejon poppy (Eschscholzia lemmonii ssp. kernensis) is an annual herb found in open valley and foothill grassland and chenopod scrub habitats between 500 and 3,280 feet in elevation. This plant blooms between February and May. This species is listed as a California Native Plant Society rare plant with a rank of 1B.1 (seriously endangered in California).

Palmer's Mariposa lily (Calochortus palmeri var. palmeri) is a perennial bulbiferous herb found in mesic soils in chaparral, lower montane coniferous forests, meadow and seep habitats between 2,300 and 7,800 feet in elevation. This plant blooms between April and June and is listed as a California Native Plant Society rare plant with a rank of 1B.2 (fairly endangered in California).

Piute Mountains navarretia (*Navarretia setiloba*) is an annual herb found in clay or gravelly loam soils in cismontane woodland, pinyon and juniper woodland, and valley and foothill grassland habitats between 935 and 7,000 feet in elevation. This plant blooms between April and July. This species is listed as a California Native Plant Society rare plant with a rank of 1B.1 (seriously endangered in California).

The umbrella larkspur (*Delphinium umbraculorum*) is a perennial herb found in cismontane woodland, moist oak forest, and chaparral habitats between 1,300 and 5,300 feet in elevation. This plant typically blooms between April and June and is listed as a California Native Plant Society rare plant with a rank of 1B.3 (not very endangered in California).

#### Environmental Consequences

Most project construction would take place within the concrete-lined areas of Grapevine Creek which flows through the culverts. Disturbance to terrestrial habitat with potential to support sensitive plant species would be limited in area and duration to allow equipment access to the channel, and therefore would be considered temporary. No permanent loss of habitat is expected from project activities.

#### Avoidance, Minimization, and/or Mitigation Measures

Preconstruction botanical surveys would be completed during the appropriate blooming seasons prior to ground-disturbing activities at all work sites where suitable habitat occurs. If sensitive plants are found, areas that can be avoided during construction would be protected as an environmentally sensitive area and clearly designated by orange fencing. The following mitigation measures would also be implemented, where appropriate, when avoidance is not possible:

- Topsoil would be collected and salvaged from areas where any flowering populations within the work site are found.
- Topsoil would be spread over areas temporarily impacted, within or as close to the original location as possible, once work is completed.
- Seed collection, or transplantation of plants would be done if necessary.

#### Animal Species

#### Affected Environment

A Natural Environment Study was completed for this project on November 19, 2018.

The pallid bat (a Species of Special Concern) has the potential to occur within the project study area. Pallid bats are found in rocky, arid and semi-arid locations. They have also been found in more open sparsely vegetated grasslands. They use rock crevices, caves, buildings, and bridges for day

roosting and more open sites for night roosting and foraging. Trees may also provide roosting habitat. Pallid bats are known to roost in groups of 20 or more and may roost with other bat species. Suitable roosting habitat for the pallid bat is present in the form of trees and culverts within the project area.

Mature trees and shrubs in the project area may also provide suitable nesting habitat for a variety of bird and raptor species.

#### **Environmental Consequences**

It is unlikely that pallid bats would roost in this heavily trafficked, disturbed area, so no impacts to the species are expected. Although the project culverts may be considered cave-like structures, no evidence of bat roosting was found.

Project-related activities may disturb birds nesting near the work area. This would be avoided and minimized to a less than significant level.

#### Avoidance, Minimization, and/or Mitigation Measures

The culvert repair work would have very little if any impact on the pallid bat. There would be no work near cliffs, rocky areas, or bridges where these bats are likely to roost. No impacts to the pallid bat are anticipated, so no avoidance, minimization, and/or mitigation measures are required.

Avoidance and minimization measures and Standard Special Provisions are proposed to comply with the Migratory Bird Treaty Act by ensuring that project-related activities do not result in harmful impacts to nesting birds or their nests, eggs, and young. These may include one or more of the following actions, as appropriate: preconstruction surveys, biological monitoring during initial ground-disturbing activities, seasonal restrictions on the removal of suitable nest trees or brush, and the placement of environmentally sensitive area buffers around nests or burrows as required. These involve the following Standard Special Provisions:

- Standard Special Provision 14-1.01 Environmental Stewardship, including Environmentally Sensitive Areas
- Standard Special Provision 14-6.02 Species Protection (buffers, work stoppage areas)
- Standard Special Provision 14-6.03 Bird Protection (nest protection buffers)

#### Threatened and Endangered Species

#### Affected Environment

A Natural Environment Study was completed for this project on November 19, 2018.

The Tehachapi slender salamander (State Threatened) has the potential to occur within the project study area. This salamander is endemic to California and is found in canyon junctions and northern slopes of the Tehachapi Mountains from Tejon Canyon to Fort Tejon. Preferred habitat for this species includes valley-foothill hardwood-conifer, valley-foothill riparian, and oak and mixed woodlands with steep slopes in moist canyons and ravines. Sightings of the species have been recorded in elevations ranging from 1,660 feet in the Paiute Mountains to 5,572 feet in the Tehachapi Mountains. In the Tehachapi Mountains, sightings have been documented at elevations ranging from 2,700 feet near Grapevine Creek to 5,575 feet in the mountains.

Habitat for the Tehachapi slender salamander is present in the form of moist soil, leaf litter and rocks. This habitat occurs at two of the four locations in areas around the channels, but not inside the culverts.

Habitat for federally listed species is not present.

#### **Environmental Consequences**

Ground disturbance associated with culvert repair may impact Tehachapi slender salamander habitat. No Tehachapi slender salamanders or signs of presence of Tehachapi slender salamanders were found during site investigations. Because of existing site conditions, the minimal amount of habitat and generally low quality of habitat that is present on the sites, it is unlikely Tehachapi slender salamanders are present.

If the Tehachapi slender salamander is found during preconstruction surveys, consultation with the California Department of Fish and Wildlife would occur. Through this consultation, Caltrans would seek a 2081 Incidental Take Permit and compensatory mitigation would be required.

A federal species list was obtained on December 20, 2018 and is included in Appendix D. The effect finding was "No Effect" for each species.

#### Avoidance, Minimization, and/or Mitigation Measures

Any potential Tehachapi slender salamander habitat impacted by construction activities would be restored by revegetation with a native seed mix and replacement of any boulders or rocks that may serve as shelter. Preconstruction species surveys, environmentally sensitive area fencing, and biological monitoring (where required) would avoid and minimize impacts to special-status species.

VII. Hazards and Hazardous Materials (checklist questions a and d)

#### Hazardous Waste

#### Affected Environment

A hazardous waste report was completed on May 22, 2017. Aerially deposited lead exists in the soil of the project site, though the levels are unknown.

Also found within the project limits is a site that is on the Cortese list, a list of hazardous waste and substances sites compiled each year by the California Environmental Protection Agency. The site includes a Mobil pumping station listed on Geotracker within the project boundaries as a closed crude oil/petroleum release case. It is uphill from the culvert at the project's northern Post Mile limits. The culvert is not near the site.

#### **Environmental Consequences**

No excess soil would be generated, so an aerially deposited lead agreement would not be necessary. However, lead is a hazardous material and has the potential to impact worker safety.

Aerially deposited lead from the historical use of leaded gasoline exists along roadways throughout California. There is the likely presence of soils with elevated concentrations of lead as a result of aerially deposited lead on the state highway system right-of-way within the limits of the project build alternative. Soil determined to contain lead concentrations exceeding stipulated thresholds must be managed under the July 1, 2016, Aerially Deposited Lead Agreement between Caltrans and the California Department of Toxic Substances Control. The agreement allows such soils to be safely reused within the project limits as long as all requirements of the Aerially Deposited Lead Agreement are met.

The site found on the Cortese list is not expected to impact the project because all work would be done in the Caltrans right-of-way. No further study of the site is required.

#### Avoidance, Minimization, and/or Mitigation Measures

Standard Special Provisions would be included in the construction contract to address proper handling and worker safety issues to minimize exposure to the potential lead hazards. Standard Special Provision 71.02K(6)6)(iii), which addresses the need for a Lead Compliance Plan, is required, and the plan would be provided at a later date for inclusion in the construction package.

Standard Special Provisions would not be necessary for the site on the Cortese list because the site would be avoided entirely.

### **Appendix A** Climate Change

Climate change refers to long-term changes in temperature, precipitation, wind patterns, and other elements of the earth's climate system. An ever-increasing body of scientific research attributes these climatological changes to greenhouse gas (GHG) emissions, particularly those generated from the production and use of fossil fuels.

While climate change has been a concern for several decades, the establishment of the Intergovernmental Panel on Climate Change (IPCC) by the United Nations and World Meteorological Organization in 1988 has led to increased efforts devoted to greenhouse gas emissions reduction and climate change research and policy. These efforts are concerned mostly with the emissions of greenhouse gases generated by human activity, including carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), tetrafluoromethane, hexafluoroethane, sulfur hexafluoride (SF<sub>6</sub>), HFC-23 (fluoroform), HFC-134a (1, 1, 2-tetrafluoroethane), and HFC-152a (difluoroethane).

In the U.S., the main source of GHG emissions is electricity generation, followed by transportation.<sup>1</sup> In the U.S., the main source of greenhouse gas emissions is electricity generation, followed by transportation. In California, however, transportation sources (including passenger cars, light-duty trucks, other trucks, buses, and motorcycles) are the largest contributors of GHG emissions.<sup>2</sup> The dominant greenhouse gas emitted is CO<sub>2</sub>, mostly from fossil fuel combustion.

Two terms are typically used when discussing how we address the impacts of climate change: "greenhouse gas mitigation" and "adaptation." "Greenhouse gas mitigation" covers the activities and policies aimed at reducing greenhouse gas emissions to reduce or "mitigate" the impacts of climate change. "Adaptation," on the other hand, is concerned with planning for and responding to impacts resulting from climate change (such as adjusting transportation design standards to withstand more intense storms and higher sea levels).

#### Regulatory Setting

This section outlines federal and state efforts to comprehensively reduce greenhouse gas emissions from transportation sources.

#### Federal

To date, no national standards have been established for nationwide mobilesource greenhouse gas reduction targets, nor have any regulations or

<sup>&</sup>lt;sup>1</sup> https://www.epa.gov/ghgemissions/us-greenhouse-gas-inventory-report-1990-2014

<sup>&</sup>lt;sup>2</sup> https://www.arb.ca.gov/cc/inventory/data/data.htm

legislation been enacted specifically to address climate change and greenhouse gas emissions reduction at the project level.

The National Environmental Policy Act (NEPA) (42 United States Code Part 4332) requires federal agencies to assess the environmental effects of their proposed actions prior to making a decision on the action or project.

The Federal Highway Administration recognizes the threats that extreme weather, sea-level change, and other changes in environmental conditions pose to valuable transportation infrastructure and those who depend on it. The Federal Highway Administration therefore supports a sustainability approach that assesses vulnerability to climate risks and incorporates resilience into planning, asset management, project development and design, and operations and maintenance practices.3 This approach encourages planning for sustainable highways by addressing climate risks while balancing environmental, economic, and social values--- "the triple bottom line of sustainability."4 Program and project elements that foster sustainability and resilience also support economic vitality and global efficiency, increase safety and mobility, enhance the environment, promote energy conservation, and improve the quality of life. Addressing these factors up front in the planning process will assist in decision-making and improve efficiency at the program level and will inform the analysis and stewardship needs of project-level decision-making.

Various efforts have been made at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

The Energy Policy Act of 1992 (EPACT92, 102nd Congress H.R.776.ENR): With this act, Congress set goals, created mandates, and amended utility laws to increase clean energy use and improve overall energy efficiency in the United States. EPACT92 consists of 27 titles detailing various measures designed to lessen the nation's dependence on imported energy, provide incentives for clean and renewable energy, and promote energy conservation in buildings. Title III of EPACT92 addresses alternative fuels. It gave the U.S. Department of Energy administrative power to regulate the minimum number of light-duty alternative fuel vehicles required in certain federal fleets beginning in fiscal year 1993. The main goal of the program is to cut petroleum use in the United States by 2.5 billion gallons per year by 2020.

Energy Policy Act of 2005 (109th Congress H.R.6 (2005–2006): This act sets forth an energy research and development program covering: (1) energy efficiency; (2) renewable energy; (3) oil and gas; (4) coal; (5) the establishment of the Office of Indian Energy Policy and Programs within the Department of Energy; (6) nuclear matters and security; (7) vehicles and

<sup>&</sup>lt;sup>3</sup> https://www.fhwa.dot.gov/environment/sustainability/resilience/

<sup>4</sup> https://www.sustainablehighways.dot.gov/overview.aspx

motor fuels, including ethanol; (8) hydrogen; (9) electricity; (10) energy tax incentives; (11) hydropower and geothermal energy; and (12) climate change technology.

Energy Policy and Conservation Act of 1975 (42 USC Section 6201) and Corporate Average Fuel Standards: This act establishes fuel economy standards for on-road motor vehicles sold in the United States. Compliance with federal fuel economy standards is determined through the Corporate Average Fuel Economy (CAFE) program on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the United States.

The U.S. EPA's authority to regulate greenhouse gas emissions stems from the U.S. Supreme Court decision in Massachusetts v. EPA (2007). The Supreme Court ruled that greenhouse gases meet the definition of air pollutants under the existing Clean Air Act and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the court's ruling, the U.S. EPA finalized an endangerment finding in December 2009. Based on scientific evidence, it found that six greenhouse gases constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing act and EPA's assessment of the scientific evidence that form the basis for EPA's regulatory actions.

The U.S. EPA in conjunction with the National Highway Traffic Safety Administration (NHTSA) issued the first of a series of greenhouse gas emission standards for new cars and light-duty vehicles in April 20105 and significantly increased the fuel economy of all new passenger cars and light trucks sold in the United States. The standards required these vehicles to meet an average fuel economy of 34.1 miles per gallon by 2016. In August 2012, the federal government adopted the second rule that increases fuel economy for the fleet of passenger cars, light-duty trucks, and medium-duty passenger vehicles for model years 2017 and beyond to average fuel economy of 54.5 miles per gallon by 2025. Because the National Highway Traffic Safety Administration cannot set standards beyond model year 2021 due to statutory obligations and the rules' long timeframe, a mid-term evaluation is included in the rule. The Mid-Term Evaluation is the overarching process by which the National Highway Traffic Safety Administration, EPA, and Air Resources Board will decide on the Corporate Average Fuel Economy (CAFE) and greenhouse gas emissions standard stringency for model years 2022–2025. The National Highway Traffic Safety Administration has not formally adopted standards for model years 2022 through 2025. However, the EPA finalized its mid-term review in January 2017, affirming that the target fleet average of at least 54.5 miles per gallon by 2025 was

<sup>&</sup>lt;sup>5</sup> https://one.nhtsa.gov/Laws-&-Regulations/CAFE-%E2%80%93-Fuel-Economy

appropriate. In March 2017, President Donald Trump ordered the EPA to reopen the review and reconsider the mileage target.<sup>6</sup>

The National Highway Traffic Safety Administration and EPA issued a Final Rule for "Phase 2" for medium- and heavy-duty vehicles to improve fuel efficiency and cut carbon pollution in October 2016. The agencies estimate that the standards will save up to 2 billion barrels of oil and reduce CO<sub>2</sub> emissions by up to 1.1 billion metric tons over the lifetimes of model year 2018–2027 vehicles.

#### State

With the passage of legislation including State Senate and Assembly bills and executive orders, California has been innovative and proactive in addressing greenhouse gas emissions and climate change.

Assembly Bill 1493, Pavley Vehicular Emissions: Greenhouse Gases, 2002: This bill requires the California Air Resources Board (ARB) to develop and implement regulations to reduce automobile and light truck greenhouse gas emissions. These stricter emissions standards were designed to apply to automobiles and light trucks beginning with the 2009-model year.

Executive Order S-3-05 (June 1, 2005): The goal of this order is to reduce California's greenhouse gas emissions to: (1) year 2000 levels by 2010, (2) year 1990 levels by 2020, and (3) 80 percent below year 1990 levels by 2050. This goal was further reinforced with the passage of Assembly Bill 32 in 2006 and SB 32 in 2016.

Assembly Bill 32 (AB 32), Chapter 488, 2006: Núñez and Pavley, The Global Warming Solutions Act of 2006: AB 32 codified the 2020 greenhouse gas emissions reduction goals as outlined in Executive Order S-3-05, while further mandating that the Air Resources Board create a scoping plan and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." The Legislature also intended that the statewide greenhouse gas emissions limit continue in existence and be used to maintain and continue reductions in emissions of greenhouse gases beyond 2020 (Health and Safety Code Section 38551(b)). The law requires the Air Resources Board to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective greenhouse gas reductions.

Executive Order S-01-07 (January 18, 2007): This order set forth the low carbon fuel standard (LCFS) for California. Under this order, the carbon intensity of California's transportation fuels is to be reduced by at least 10 percent by the year 2020. The Air Resources Board re-adopted the LCFS

<sup>&</sup>lt;sup>6</sup> https://www.federalregister.gov/documents/2017/03/22/2017-05316/notice-of-intention-to-reconsider-the-final-determination-of-the-mid-term-evaluation-of-greenhouse

regulation in September 2015, and the changes went into effect on January 1, 2016. The program establishes a strong framework to promote the low-carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 greenhouse gas reduction goals.

Senate Bill 97 (SB 97), Chapter 185, 2007, Greenhouse Gas Emissions: This bill requires the Governor's Office of Planning and Research (OPR) to develop recommended amendments to the California Environmental Quality Act (CEQA) Guidelines for addressing greenhouse gas emissions. The amendments became effective on March 18, 2010.

Senate Bill 375 (SB 375), Chapter 728, 2008, Sustainable Communities and Climate Protection: This bill requires Air Resources Board to set regional emissions reduction targets for passenger vehicles. The Metropolitan Planning Organization (MPO) for each region must then develop a "Sustainable Communities Strategy" (SCS) that integrates transportation, land use, and housing policies to plan how it will achieve the emissions target for its region.

Senate Bill 391 (SB 391), Chapter 585, 2009, California Transportation Plan: This bill requires the State's long-range transportation plan to meet California's climate change goals under AB 32.

Executive Order B-16-12 (March 2012): This order required state entities under the direction of the governor, including the Air Resources Board, the California Energy Commission, and the Public Utilities Commission, to support the rapid commercialization of zero-emission vehicles. It directs these entities to achieve various benchmarks related to zero-emission vehicles.

Executive Order B-30-15 (April 2015): This order established an interim statewide greenhouse gas emission reduction target of 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. It further orders all state agencies with jurisdiction over sources of greenhouse gas emissions to implement measures, pursuant to statutory authority, to achieve reductions of greenhouse gas emissions to meet the 2030 and 2050 greenhouse gas emissions reductions targets. It also directs the Air Resources Board to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent (MMTCO2e). Finally, it requires the Natural Resources Agency to update the state's climate adaptation strategy, Safeguarding California, every 3 years, and to ensure that its provisions are fully implemented.

Senate Bill 32, (SB 32) Chapter 249, 2016: This bill codifies the greenhouse gas reduction targets established in Executive Order B-30-15 to achieve a mid-range goal of 40 percent below 1990 levels by 2030.

#### Environmental Setting

In 2006, the Legislature passed the California Global Warming Solutions Act of 2006 (AB 32), which created a comprehensive, multi-year program to reduce greenhouse gas emissions in California. AB 32 required the Air Resources Board to develop a Scoping Plan that describes the approach California will take to achieve the goal of reducing greenhouse gas emissions to 1990 levels by 2020. The Scoping Plan was first approved by the Air Resources Board in 2008 and must be updated every 5 years. The second updated plan, *California's 2017 Climate Change Scoping Plan*, adopted on December 14, 2017, reflects the 2030 target established in EO B-30-15 and SB 32.

The AB 32 Scoping Plan and the subsequent updates contain the main strategies California will use to reduce greenhouse gas emissions. As part of its supporting documentation for the updated Scoping Plan, the Air Resources Board released the greenhouse gas inventory for California.<sup>7</sup> The Air Resources Board is responsible for maintaining and updating California's Greenhouse Gas Inventory per H&SC Section 39607.4. The associated forecast/projection is an estimate of the emissions anticipated to occur in the year 2020 if none of the foreseeable measures included in the Scoping Plan were implemented.

An emissions projection estimates future emissions based on current emissions, expected regulatory implementation, and other technological, social, economic, and behavioral patterns. The projected 2020 emissions provided in Figure A-1 represent a business-as-usual (BAU) scenario assuming none of the Scoping Plan measures are implemented. The 2020 BAU emissions estimate assists the Air Resources Board in demonstrating progress toward meeting the 2020 goal of 431 MMTCO2e.8 The 2018 edition of the GHG emissions inventory found total California emissions of 429 MMTCO2e for 2016.

The 2020 BAU emissions projection was revisited in support of the First Update to the Scoping Plan (2014). This projection accounts for updates to the economic forecasts of fuel and energy demand as well as other factors. It also accounts for the effects of the 2008 economic recession and the projected recovery. The total emissions expected in the 2020 BAU scenario include reductions anticipated from Pavley I and the Renewable Electricity Standard (30 MMTCO2e total). With these reductions in the baseline, estimated 2020 statewide BAU emissions are 509 MMTCO2e.

<sup>&</sup>lt;sup>7</sup> 2018 Edition of the GHG Emission Inventory Released (July 2018): https://www.arb.ca.gov/cc/inventory/data/data.htm

<sup>&</sup>lt;sup>8</sup> The revised target using Global Warming Potentials (GWP) from the IPCC Fourth Assessment Report (AR4)

California Greenhouse Gas 2009 - 2011 Average Emissions, 2020 Emissions Projection for BAU Scenario, and 2020 Goal Average 2009-2011 **Emissions** Used as base year for BAU projection **Projected Emissions** in 2020 for BAU Scenario 100 300 400 600 200 500 Million Metric Tons of CO,e **■** Transportation Electric Power ■ Commercial and Residential Industrial Recycling and Waste Agriculture https://www.arb.ca.gov/cc/inventory/data/bau.htm

Figure A-1 2020 Business as Usual (BAU) Emissions Projection 2014 Edition

#### **Project Analysis**

An individual project does not generate enough greenhouse gas emissions to significantly influence global climate change. Rather, global climate change is a cumulative impact. This means that a project may contribute to a potential impact through its *incremental* change in emissions when combined with the contributions of all other sources of greenhouse gas.<sup>9</sup> In assessing cumulative impacts, it must be determined if a project's incremental effect is "cumulatively considerable" (CEQA Guidelines Sections 15064(h)(1) and 15130). To make this determination, you must compare the incremental impacts of the project with the effects of past, current, and probable future projects. To gather sufficient information on a global scale of all past, current, and future projects to make this determination is a difficult, if not impossible, task.

Greenhouse gas emissions for transportation projects can be divided into those produced during operations and those produced during construction. The following represents a best faith effort to describe the potential greenhouse gas emissions related to the proposed project.

<sup>&</sup>lt;sup>9</sup> This approach is supported by the AEP: Recommendations by the Association of Environmental Professionals on How to Analyze GHG Emissions and Global Climate Change in CEQA Documents (March 5, 2007), as well as the South Coast Air Quality Management District (Chapter 6: The CEQA Guide, April 2011) and the US Forest Service (Climate Change Considerations in Project Level NEPA Analysis, July 13, 2009).

#### **Operational Emissions**

The proposed project involves repairing the damaged concrete culvert. It does not affect the roadway, add roadway capacity, or change traffic volume or vehicle miles traveled. While some construction GHG emissions would be unavoidable, no increase in operational GHG emissions is anticipated.

#### **Construction Emissions**

Construction greenhouse gas emissions would result from material processing, onsite construction equipment, and traffic delays due to construction. These emissions will be produced at different levels throughout the construction phase; their frequency and occurrence can be reduced through innovations in plans and specifications and by implementing better traffic management during construction phases.

In addition, with innovations such as longer pavement lives, improved traffic management plans, and changes in materials, the greenhouse gas emissions produced during construction can be offset to some degree by longer intervals between maintenance and rehabilitation activities.

Construction activities on the project would emit 344 tons of CO2 per year and the project construction is expected to take 80 working days. The total amount of greenhouse gas emissions in the form of CO2 will be approximately 74 tons.

Strategies to reduce greenhouse gases on this project include the minimization of equipment idling time. All Caltrans construction contracts also include Standard Specifications 7-1.02, Emissions Reduction, certifying contractors will comply with CARB regulations; and Section 14.9-02, Air Pollution Control, which requires compliance with "air-pollution-control rules, regulations, ordinances, and statutes" of state and local authorities.

#### CEQA Conclusion

While the project will result in GHG emissions during construction, it is anticipated that the project will not result in any increase in operational GHG emissions. While it is Caltrans' determination that in the absence of further regulatory or scientific information related to GHG emissions and CEQA significance, it is too speculative to make a significance determination regarding the project's direct impact and its contribution on the cumulative scale to climate change, Caltrans is firmly committed to implementing measures to help reduce GHG emissions. These measures are outlined in the following sections.

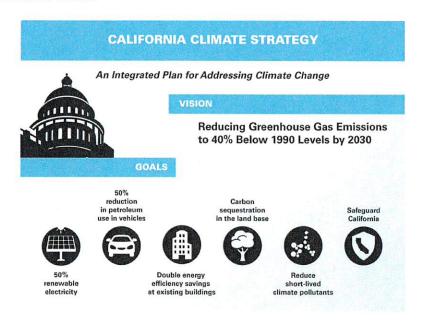
#### Greenhouse Gas Reduction Strategies

Statewide Efforts

To further the vision of California's greenhouse gas reduction targets outlined in AB 32 and SB 32, Governor Edmund G. Brown Jr. identified key climate

change strategy pillars (concepts). See Figure A-2. These pillars highlight the idea that several major areas of the California economy will need to reduce emissions to meet the 2030 greenhouse gas emissions target. These pillars are (1) reducing today's petroleum use in cars and trucks by up to 50 percent; (2) increasing from one-third to 50 percent our electricity derived from renewable sources; (3) doubling the energy-efficiency savings achieved at existing buildings and making heating fuels cleaner; (4) reducing the release of methane, black carbon, and other short-lived climate pollutants; (5) managing farm and rangelands, forests, and wetlands so they can store carbon; and (6) periodically updating the state's climate adaptation strategy, Safeguarding California.

Figure A-2 Governor's Climate Change Pillars: 2030 Greenhouse Gas Reduction Goals



The transportation sector is integral to the people and economy of California. To achieve greenhouse gas emission reduction goals, it is vital that we build on our past successes in reducing criteria and toxic air pollutants from transportation and goods movement activities. Greenhouse gas emission reductions will come from cleaner vehicle technologies, lower-carbon fuels, and reduction of vehicle miles traveled. One of Governor Brown's key pillars sets the ambitious goal of reducing today's petroleum use in cars and trucks by up to 50 percent by 2030.

Governor Brown called for support to manage natural and working lands, including forests, rangelands, farms, wetlands, and soils, so they can store carbon. These lands have the ability to remove carbon dioxide from the atmosphere through biological processes, and to then sequester carbon in above- and below-ground matter.

#### Caltrans Activities

Caltrans continues to be involved on the Governor's Climate Action Team as the Air Resources Board works to implement Executive Orders S-3-05 and S-01-07 and help achieve the targets set forth in AB 32. Executive Order B-30-15, issued in April 2015, and SB 32 (2016), set a new interim target to cut greenhouse gas emissions to 40 percent below 1990 levels by 2030. The following major initiatives are underway at Caltrans to help meet these targets.

#### California Transportation Plan (CTP 2040)

The California Transportation Plan (CTP) is a statewide, long-range transportation plan to meet our future mobility needs and reduce greenhouse gas emissions. The plan defines performance-based goals, policies, and strategies to achieve our collective vision for California's future statewide, integrated, multimodal transportation system. It serves as an umbrella document for all of the other statewide transportation planning documents.

SB 391 (Liu 2009) requires the California Transportation Plan to meet California's climate change goals under AB 32. Accordingly, the CTP 2040 identifies the statewide transportation system needed to achieve maximum feasible greenhouse gas emission reductions while meeting the state's transportation needs. While Metropolitan Planning Organizations have primary responsibility for identifying land use patterns to help reduce greenhouse gas emissions, CTP 2040 identifies additional strategies in Pricing, Transportation Alternatives, Mode Shift, and Operational Efficiency.

#### Caltrans Strategic Management Plan

The Strategic Management Plan, released in 2015, creates a performance-based framework to preserve the environment and reduce greenhouse gas emissions, among other goals. Specific performance targets in the plan that will help to reduce greenhouse gas emissions include the following:

- Increasing percentage of non-auto mode share
- Reducing vehicle miles traveled per capita
- Reducing Caltrans' internal operational (buildings, facilities, and fuel) greenhouse gas emissions

#### Funding and Technical Assistance Programs

In addition to developing plans and performance targets to reduce greenhouse gas emissions, Caltrans also administers several funding and technical assistance programs that have greenhouse gas reduction benefits. These include the Bicycle Transportation Program, Safe Routes to School, Transportation Enhancement Funds, and Transit Planning Grants. A more

extensive description of these programs can be found in Caltrans Activities to Address Climate Change (2013).

The Caltrans Director's Policy 30 (DP-30) Climate Change (June 22, 2012) is intended to establish a department policy that will ensure coordinated efforts to incorporate climate change into departmental decisions and activities.

Caltrans Activities to Address Climate Change (April 2013) provides a comprehensive overview of activities undertaken by Caltrans statewide to reduce greenhouse gas emissions resulting from agency operations.

# Project-Level Greenhouse Gas Reduction Strategies

The following measures will also be implemented in the project to reduce greenhouse gas emissions and potential climate change impacts from the project.

- Minimization of equipment idling time.
- The construction contracts will include Standard Specifications 7-1.02, Emissions Reduction, certifying contractors will comply with CARB regulations.
- The construction contracts will include Section 14.9-02, Air Pollution Control, which requires compliance with "air-pollution-control rules, regulations, ordinances, and statutes" of state and local authorities. Common regulations such as minimizing idling time and properly maintaining engines can help reduce greenhouse gas emissions from construction equipment.

# Adaptation Strategies

"Adaptation strategies" refer to how Caltrans and others can plan for the effects of climate change on the state's transportation infrastructure and strengthen or protect the facilities from damage—or, put another way, planning and design for resilience. Climate change is expected to produce increased variability in precipitation, rising temperatures, rising sea levels, variability in storm surges and their intensity, and the frequency and intensity of wildfires. These changes may affect the transportation infrastructure in various ways, such as damage to roadbeds from longer periods of intense heat; increasing storm damage from flooding and erosion; and inundation from rising sea levels. These effects will vary by location and may, in the most extreme cases, require that a facility be relocated or redesigned. These types of impacts to the transportation infrastructure may also have economic and strategic ramifications.

# Federal Efforts

At the federal level, the Climate Change Adaptation Task Force, co-chaired by the Council on Environmental Quality, the Office of Science and Technology Policy (OSTP), and the National Oceanic and Atmospheric Administration (NOAA), released its interagency task force progress report on October 28, 2011<sup>10</sup>, outlining the federal government's progress in expanding and strengthening the nation's capacity to better understand, prepare for, and respond to extreme events and other climate change impacts. The report provided an update on actions in key areas of federal adaptation, including building resilience in local communities, safeguarding critical natural resources such as fresh water, and providing accessible climate information and tools to help decision-makers manage climate risks.

The federal Department of Transportation issued a U.S. DOT Policy Statement on Climate Adaptation in June 2011, committing to "integrate consideration of climate change impacts and adaptation into the planning, operations, policies, and programs of DOT in order to ensure that taxpayer resources are invested wisely and that transportation infrastructure, services and operations remain effective in current and future climate conditions."<sup>11</sup>

To further the DOT Policy Statement, on December 15, 2014, the Federal Highway Administration issued order 5520 (*Transportation System Preparedness and Resilience to Climate Change and Extreme Weather Events*). This directive established a Federal Highway Administration policy to strive to identify the risks of climate change and extreme weather events to current and planned transportation systems. The Federal Highway Administration will work to integrate consideration of these risks into its planning, operations, policies, and programs in order to promote preparedness and resilience; safeguard federal investments; and ensure the safety, reliability, and sustainability of the nation's transportation systems.

The Federal Highway Administration has developed guidance and tools for transportation planning that fosters resilience to climate effects and sustainability at the federal, state, and local levels.<sup>13</sup>

### State Efforts

On November 14, 2008, then-Governor Arnold Schwarzenegger signed Executive Order S-13-08, which directed a number of state agencies to address California's vulnerability to sea-level rise caused by climate change. This order set in motion several agencies and actions to address the concern

<sup>10</sup> https://obamawhitehouse.archives.gov/administration/eop/ceg/initiatives/resilience

<sup>11</sup> https://www.fhwa.dot.gov/environment/sustainability/resilience/

<sup>12</sup> https://www.fhwa.dot.gov/legsregs/directives/orders/5520.cfm

<sup>13</sup> https://www.fhwa.dot.gov/environment/sustainability/resilience/

of sea-level rise and directed all state agencies planning to construct projects in areas vulnerable to future sea-level rise to consider a range of sea-level rise scenarios for the years 2050 and 2100, assess project vulnerability and, to the extent feasible, reduce expected risks and increase resiliency to sea-level rise. Sea-level rise estimates should also be used in conjunction with information on local uplift and subsidence, coastal erosion rates, predicted higher high water levels, and storm surge and storm wave data.

Then-Governor Schwarzenegger also requested the National Academy of Sciences to prepare an assessment report to recommend how California should plan for future sea-level rise. The final report, Sea-Level Rise for the Coasts of California, Oregon, and Washington (Sea-Level Rise Assessment Report), was released in June 2012 and included relative sea-level rise projections for the three states, taking into account coastal erosion rates, tidal impacts, El Niño and La Niña events, storm surge, and land subsidence rates, and the range of uncertainty in selected sea-level rise projections. It provided a synthesis of existing information on projected sea-level rise impacts to state infrastructure (such as roads, public facilities, and beaches), natural areas, and coastal and marine ecosystems, and a discussion of future research needs regarding sea-level rise.

In response to Executive Order S-13-08, the California Natural Resources Agency (Resources Agency), in coordination with local, regional, state, federal, and public and private entities, developed The California Climate Adaptation Strategy (Dec 2009), <sup>15</sup> which summarized the best available science on climate change impacts to California, assessed California's vulnerability to the identified impacts, and outlined solutions that can be implemented within and across state agencies to promote resiliency. The adaptation strategy was updated and rebranded in 2014 as *Safeguarding California: Reducing Climate Risk* (Safeguarding California Plan).

Governor Jerry Brown enhanced the overall adaptation planning effort by signing Executive Order B-30-15 in April 2015, requiring state agencies to factor climate change into all planning and investment decisions. In March 2016, sector-specific Implementation Action Plans that demonstrate how state agencies are implementing Executive Order B-30-15 were added to the Safeguarding California Plan. This effort represents a multi-agency, cross-sector approach to addressing adaptation to climate change-related events statewide.

Executive Order S-13-08 also gave rise to the State of California Sea-Level Rise Interim Guidance Document (SLR Guidance), produced by the Coastal and Ocean Working Group of the California Climate Action Team (CO-CAT),

<sup>&</sup>lt;sup>14</sup> Sea Level Rise for the Coasts of California, Oregon, and Washington: Past, Present, and Future (2012) is available at: <a href="http://www.nap.edu/catalog.php?record">http://www.nap.edu/catalog.php?record</a> id=13389.

<sup>15</sup> http://www.climatechange.ca.gov/adaptation/strategy/index.html

of which Caltrans is a member. First published in 2010, the document provided "guidance for incorporating sea-level rise (SLR) projections into planning and decision making for projects in California," specifically, "information and recommendations to enhance consistency across agencies in their development of approaches to SLR."

Climate change adaptation for transportation infrastructure involves long-term planning and risk management to address vulnerabilities in the transportation system from increased precipitation, and flooding; the increased frequency and intensity of storms and wildfires; rising temperatures; and rising sea levels. Caltrans is actively engaged in working toward identifying these risks throughout the state and will work to incorporate this information into all planning and investment decisions as directed in Executive Order B-30-15.

The proposed project is outside the coastal zone and not in an area subject to sea-level rise. Accordingly, direct impacts to transportation facilities due to projected sea-level rise are not expected.

The current damage to the culvert is a result of high-velocity stormwater flows originating in the mountains and containing mud and debris that have scoured the concrete channel. More-frequent and intense storms are one anticipated result of climate change, and Caltrans expects District 6 to be vulnerable to the effects of such heavy rain events. New rebar and 6 inches of concrete will be used to repair the culvert floor, to restore culvert function and extend its lifetime even as climate conditions change.

<sup>&</sup>lt;sup>16</sup> http://www.opc.ca.gov/2013/04/update-to-the-sea-level-rise-guidance-document/

# **Appendix B** Title VI Policy Statement

STATE OF CALIFORNIA-CALIFORNIA STATE TRANSPORTATION A GENCY

EDM UND G. BROWN Jr., Governor

#### 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.

April 2018

# 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 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, please visit the following web page: http://www.dot.ca.gov/hq/bep/title\_vi/t6\_violated.htm.

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, 1823 14<sup>th</sup> Street, MS-79, Sacramento, CA 95811. Telephone (916) 324-8379, TTY 711, email Title.VI@dot.ca.gov, or visit the website www.dot.ca.gov.

LAURIE BERMAN

"Pravide a safe, sustainable, integrated and efficient transportation system to enhance Colifornia's economy and livability."

Appendix C • Avoidance, Minimization and/or Mitigation Summary

# **Appendix C** Avoidance, Minimization and/or Mitigation Summary

To ensure that all environmental measures identified in this document are executed at the appropriate times, the following mitigation program (as shown in the proposed Environmental Commitments Record which follows) would be implemented. During project design, avoidance, minimization, and/or mitigation measures would be incorporated into the project's final plans, specifications, and cost estimates, as appropriate. All permits would be obtained prior to implementation of the project. During construction, environmental and construction/engineering staff would ensure that the commitments contained in the Environmental Commitments Record are fulfilled. Following construction and appropriate phases of project delivery, long-term mitigation maintenance and monitoring would take place, as applicable. Because the Environmental Commitments Record at the end of this appendix is a draft, some fields have not been completed and would be filled in as each of the measures is implemented.

Note: Some measures may apply to more than one resource area. Duplicated or redundant measures have not been included in the Environmental Commitments Record.

### Hazardous Waste

Standard Special Provisions would be included in the construction contract to address proper handling and worker safety issues to minimize exposure to potential lead hazards. Standard Special Provision 71.02K(6)(6)(iii), which addresses the need for a Lead Compliance Plan, is required, and the plan would be provided at a later date for inclusion in the construction package.

# **Plant Species**

Preconstruction botanical surveys would be completed during the appropriate blooming seasons prior to ground-disturbing activities at all work sites where suitable habitat occurs. If sensitive plants are found, areas that can be avoided during construction would be protected as an environmentally sensitive area (ESA), clearly designated by orange fencing. The following mitigation measures would also be implemented where appropriate when avoidance is not possible:

- Topsoil would be collected and salvaged from areas where any flowering populations within the work site are found.
- Topsoil would be spread over areas temporarily impacted, within or as close to the original location as possible once work is completed.
- Seed collection or transplantation of plants would be done if necessary.

# Endangered Species

Any potential Tehachapi slender salamander habitat impacted by construction activities would be restored by revegetation with a native seed mix and replacement of any boulders or rocks that may serve as shelter. Preconstruction species surveys, environmentally sensitive area fencing, and biological monitoring (where required) would avoid and minimize impacts to special-status species. If the Tehachapi slender salamander is found during preconstruction surveys, which is not currently anticipated, then consultation with California Department of Fish and Wildlife would be performed. Through this consultation, the Department would seek a 2081 Incidental Take Permit and compensatory mitigation would be required.

# Animal Species

Avoidance and Minimization Measures and Standard Special Provisions (SSPs) are proposed to comply with the Migratory Bird Treaty Act by ensuring that project-related activities do not result in harmful impacts to nesting birds or their nests, eggs, and young. This may include one or more of the following actions, as appropriate: preconstruction surveys, biological monitoring during initial ground-disturbing activities, seasonal restrictions on the removal of suitable nest trees or brush, and the placement of environmentally sensitive area buffers around nests or burrows as required. These involve the following Standard Special Provisions:

- Standard Special Provision 14-1.01 Environmental Stewardship, including Environmentally Sensitive Areas
- Standard Special Provision 14-6.02 Species Protection (buffers, work stoppage areas)
- Standard Special Provision 14-6.03 Bird Protection (nest protection buffers)

Grapevine Culvert Repair	t Repair					EP. E	EP: Erica Sumner	559-445-6375
KER-005-7.500/9.000						r F		
Current Project Phase: 0						92		
			, and the second	emits				
Permit	Agency		Date Submitted	Date Received	Expiration R	Requirements Completed Name Date	mpfeted Date	Соттепт
1600	California Department of Fish & Wildlife	& Wildlife				-	<u>.</u>	- Application
401	Regional Water Quality Control Board	oi Board						
401 Recertification	Regional Water Quality Control Board	ol Board						***************************************
No Consultation Required	n/a							
			Comm	communents				
Task and	Task and Brief Description	Source NS	SSP/ Responsible NSSP Staff	·	Action to Comply	Z	Task Completed me Dafe	Remarks/Due Date
<i>PS&amp;E/Berore RTI</i> Hazardous Waste								
7-1,02		SSP	L. Spann	Províde plan.	Províde a lead compliance plan.	<b>8</b>		Soil disturbance; no excess soil.
Pre-Construction Biology								
Pre-construction surveys-	Pre-construction surveys- Tehachapi Slender Salamander	NES	J. Fleener	Pre-con be perfe disturbe slender	Pre-construction surveys will be performed prior to ground disturbance in Tehachapi slender salamander habitat	s will ound pi otat		
Suitable habitat delineation	Suitable habitat delineation- Tehachapi Stender Salamander NES	NES	J. Fleener	Suitable habi stender salar delineated ar ESA fencing	Suitable habitat for Tehachap stender salamander will be delineated and protected by ESA fencing	achapi be d by		
Construction								

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- 2
2
-57

Environmental Commitments Record for EA 06-0W160 / ID 0617000097	s Record	for E/	4 06-0W1	60_/ ID 06170000	97	Last updated 3/19/2019
Grapevine Culvert Repair KFR-005-7-500/9-000					EP: Erica Sumner	559-445-6375
Current Project Phase; 0					CL: RE:	
Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Completed Name Date	Remarks/Due Date
Biology						
Biological Monitoring-Tehachapi Slender Salamander	NES		J. Fleener	A biological monitor will be present for all construction activities in suitable Tehachapi slender salamander habitat		
SSP 141.01	gS.	egg Sg	Fleener	Environmental Stewardskip, Including Environmentally Sensitive Areas (ESAs)		and a state of the
SSP 14-6.02	SSP	SS	J. Fleener	Species Protection (buffers, work stoppage areas)		
SSP 14-6.03	SS	SSP	J. Plæner	Bird Protection (nest protection buffers)		:
Worker Environmental Awareness Training-Tehachapi Slender Salamander	NES		J. Fleener	Qualified bio will conduct environmental awareness trig program for Tehachapi Slender Salamender for all		

# Appendix D USFWS Species List



# 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



December 20, 2018

In Reply Refer To:

Consultation Code: 08ESMF00-2018-SLI-1439 Event Code: 08ESMF00-2019-E-01987 Project Name: Grapevine Concrete Boxes

Subject: Updated 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.

Event Code 08ESMF00-2019-E-01987

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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/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.

Event Code 08ESMF00-2019-E-01987

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### Attachment(s):

Official Species List

Event Code 08ESMF00-2019-E-01987

# **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

Event Code 08ESMF00-2019-E-01987

# **Project Summary**

Consultation Code: 08ESMF00-2018-SLI-1439

Event Code:

08ESMF00-2019-E-01987

Project Name:

Grapevine Concrete Boxes

Project Type:

TRANSPORTATION

Project Description: The project proposes to repair four reinforced concrete box culverts (RCBS) in Kern County along Route 5, at 4 locations from 238 miles north of the Fort Tejon Overcrossing (OC50-193) to 1.15 miles south of Grapevine Undercrossing (UC 50-194R). The work includes saw cutting existing reinforced concrete RCBC, lining the interior with steel, repairing/reconstructing wing walls, headwalls, etc., placing rock slope protections. The purpose of this project is to reduce future scour/erosion in and around the RCBC. See Figure 1 and Figure 2. The project intersects the following townships and ranges: T10N R19W and T9N R19W. The U.S. Geological Survey 7.5-minute quadrangle associated

with this project is Grapevine.

#### Project Location:

Approximate location of the project can be viewed in Google Maps: https:// www.google.com/maps/place/34,911673531065865N118.92338853622215W



Counties: Kern, CA

Event Code 08ESMF00-2019-E-01987

# **Endangered Species Act Species**

There is a total of 6 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 Fisheries<sup>1</sup>, 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. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

#### **Mammais**

NAME

STATUS

San Joaquin Kit Fox Vulpes macrotis mutica

Endangered

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/2873

Endangered

Tipton Kangaroo Rat Dipodomys nitratoides nitratoides No critical habitat has been designated for this species.

Species profile: https://ecos.fivs.gov/ecp/species/7247

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/40/office/11420.pdf

# **Birds**

NAME

STATUS

California Condor Gymnogyps californianus

Endangered

Population: U.S.A. only, except where listed as an experimental population

There is final critical habitat for this species. Your location overlaps the critical habitat.

Species profile: https://ecos.fivs.gov/ecp/species/8193

#### Appendix D . U.S. Fish and Wildlife Service Species List

12/20/2018

Event Code 08ESMF00-2019-E-01987

### Reptiles

NAME

STATUS

Blunt-nosed Leopard Lizard Gambelia silus No critical habitat has been designated for this species. Species profile: https://ecos.fivs.gov/ecp/species/625

Endangered

### **Amphibians**

NAME

STATUS

California Red-legged Frog Rana draytonii

There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891

Threatened

#### Crustaceans

NAME

STATUS

Vernal Pool Fairy Shrimp Branchinecta lynchi

There is final critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fivs.gov/ecp/species/498

Threatened

### Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME

STATUS

California Condor Gymnogyps californianus

Final

https://ecos.fivs.gov/ecp/species/8193#crithab

# **Appendix E** CNPS Species List

12/20/2018 CNPS Inventory Results Inventory of Rare and Endangered Plants **Plant List** 7 matches found. Click on scientific name for details Search Criteria Found in Quad 3411888 © Modify Search Criteria Export to Excel Modify Columns \$! Modify Sort □ Remove Photos State Federal ListingListing Photo Status Status Scientific Name Blooming Rare StateGlobal Period Plant RankRank Astragalus Horn's milkannual hornii var. May-Oct 1B.1 S1 G4G5T1T2 hornii Cryptantha perennial herb Apr-Jun 4.3 S4 G4 Mountains Boraginaceae tumulosa cryptantha Delphinium Ranunculaceae perennial herb May-Jun 4.3 S4 G4T4 parryi ssp. purpureum larkspur **Diplacus** monkeyflower Phrymaceae Mar-May 1B.2 S2 G2 pictus Eschscholzia Tejon poppy Papaveraceae (Feb)Mar- 1B.1 S2 G5T2 annual

http://rareplants.cnps.org/result.html?adv=t&quad=3411888#cdisp=1,2,3,4,5,6,7,8,9,10,15



2013 Neal Kramer





2008 Dr. Lloyd G. Simpson



2001 Steve Schoenig

1/2

# Appendix E . CNPS Species List

12/20/2018

ssp. kernensis

**CNPS Inventory Results** 



Navarretia setiloba

Piute Mountains navarretia

Polemoniaceae annual herb

1B.1 S2 G2 Apr-Jul

2008 Korey Klutz

basilaris var. treleasei

Bakersfield

Cactaceae

stem

1B.1 S1 G5T1 Apr-May

CE FE



2010 Neal Kramer

#### Suggested Citation

California Native Plant Society, Rare Plant Program. 2018. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 20 December 2018].

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Contributors

The Calflora Database The California Lichen Society California Natural Diversity Database The Jepson Flora Project

The Consortium of California Herbana CalPhotos

Questions and Comments rareplants@cnps.org

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http://rareplants.cnps.org/result.html?adv=t&quad=3411888#cdisp=1,2,3,4,5,6,7,8,9,10,15

# 1

# Appendix F Comments and Responses

#### Sumner, Erica@DOT

From:

Norris III, Trais G@DOT

Sent:

Tuesday, March 12, 2019 9:25 AM Mahnke, Debra@Waterboards

To: Cc:

Sumner, Erica@DOT

Subject:

RE: Grapevine Culvert Repair Project (06-0W160)

Hi Debra,

We acknowledge your agencies comment and will address it in the final environmental document with an anticipated completion date of May 1, 2019. If you have additional questions, please let us know.

From: Mahnke, Debra@Waterboards < Debra. Mahnke@waterboards.ca.gov>

Sent: Friday, March 08, 2019 3:17 PM

To: Norris III, Trais G@DOT < trais.norris@dot.ca.gov > Subject: Grapevine Culvert Repair Project (06-0W160)

#### Trais

I have reviewed the Initial Study/ MND for the Grapevine Culvert Repair Project. Grapevine Creek is a water of the state and work within the creek may require permitting from our agency to ensure protection of water quality within the creek.

Water Code section 13260 requires that anyone who will discharge a waste that could affect the quality of a water of the state first file a report of that discharge with the Central Valley Water Board, and Water Code section 13263 directs the Board to prescribe waste discharge requirements to ensure that discharges are consistent with the Board's water quality control plans.

The environmental document should be amended to acknowledge the potential permitting requirement and the need to submit a report of waste discharge to the Central Valley Water Board.

Thank you.

#### Debra Mahnke

Water Resource Control Engineer, CPESC, QSD/P
Central Valley Regional Water Quality Control Board (559) 445-6281 FAX (559) 445-5910
Email: <a href="mailto:debra.mahnke@waterboards.ca.gov">debra.mahnke@waterboards.ca.gov</a>



# Response to Comment

This Final Environmental Document has been updated to reflect the necessity of a waste discharge permit.

# **List of Technical Studies**

Air Quality Report
Noise Study Report
Water Quality Report
Natural Environment Study
Cultural Resources Compliance Memo
Hazardous Waste Report
Paleontological Identification Report