

Biological Resources and Waters Resources Desktop Assessment

Addendum to **Revised Biological Survey Report**

for the
**Proposed Truck Rack Project
Lompoc Oil Field
Santa Barbara County, California**

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1.0 Introduction

Sentinel Peak Resources LLC (SPR) proposes to construct a truck-loading facility at the Lompoc Oil Field, located in northern Santa Barbara County, California (**Figure 1** and **Figure 2**). The Lompoc Oil Field is a large, State-designated oil and natural gas production field located in the Purisima Hills region of northern Santa Barbara County, California. Discovered in 1903, the Lompoc Oil Field is one of the oldest oil fields in northern Santa Barbara County, producing approximately 260,000 barrels of oil in 2018. The on-site Lompoc Oil Treatment Facility, operated by SPR, includes facilities and equipment to process, store, and transport produced oil and natural gas. The proposed Lompoc Oil Field Truck Rack Project (Project) includes the construction of a truck rack to facilitate the loading of crude oil into tanker trucks for transport to the Coalinga Station in Coalinga, California.

Transport of crude oil via trucking is required due to recent operational changes at the Santa Maria Pump Station, which effective as of January 2023 no longer accepts crude oil via Line 300 which previously conveyed crude oil from the Lompoc Oil Field to the Santa Maria Pump Station. No other common carrier pipelines are available to replace Line 300 at this time. In a letter dated March 15, 2023, the County of Santa Barbara Planning and Development Department (County) requested that SPR conduct a desktop analysis of potential special-status species along the trucking route from Lompoc Oil Field to the Coalinga Station, due to the potential risk to these resources if an inadvertent release were to occur during transport. In accordance, AECOM Technical Services, Inc. (AECOM) has prepared this Biological Resources and Waters Resources Desktop Assessment, summarizing information on potential special-status species and wetlands and waters features along the trucking route.

1.1 Project Description

The Project includes construction of a new truck loading rack and associated infrastructure on an existing production pad associated with production well Purisima 33 (hereafter, Purisima 33 refers to the pad itself). Project components include new P-140 Lease Automatic Custody Transfer (LACT) charge pumps, LACT unit, truck loading rack with impervious secondary containment suitable to load one 160-barrel truck at a time, hydrogen sulfide (H₂S) removal system, volatile organic compound (VOC) removal system, automatic shut-off valve, H₂S and reactive organic compound monitors, approximately 493 feet of new aboveground pipeline to connect existing infrastructure to the truck loading rack, and four new electrical poles. A detailed project description is provided in the Revised Biological Resources Survey Report (AECOM 2023).

The purpose of the Project is to facilitate transport of crude oil via truck from the facilities at the Lompoc Oil Field to the Coalinga Station. The proposed trucking route is approximately 165 miles in length from the proposed truck loading rack to the Coalinga Station, utilizing primarily major roads and highways. Approximately six loads (or twelve one-way trips) are anticipated daily, with up to a maximum of 10 loads per day in special circumstances. No more than 2,000 truck trips would occur annually, with each truck holding up to 160 barrels of oil. Trucking is anticipated to occur for a period of 50 years.

1.2 Project Location

The Project is located on the Lompoc Oil Field approximately 4.5 miles north of the City of Lompoc in northern Santa Barbara County, California. Project components occur within the boundaries of the existing Purisima 33 production pad and the pad's associated access roads. Purisima 33 is located approximately 108 feet north of the existing Lompoc Oil and Gas Plant, east of Harris Grade Road, and encompasses approximately 0.39 acres. The associated access roads include about 3,000 feet of unpaved lease roads.

The proposed trucking route begins at the Lompoc Oil Field on Harris Grade Road, then travels south on Harris Grade Road at State Highway 1 at Mission Hills, west on Highway 1/Highway 135 past Vandenberg Space Force Base, and north on Highway 135 to Betteravia Road, turning east through Santa Maria, California to Highway 101. The trucking route then heads north on Highway 101 to Highway 46 in Paso Robles, follows Highway 46 east to Highway 41 in the San Joaquin Valley, continues on Highway 41 to Highway 33 near Kettleman City, then takes Highway 33 to Coalinga, ending at the Coalinga Station at 37509 Oil City Road (**Figure 1**).

1.3 Habitats and Land Uses

The proposed trucking route consists of existing paved roads and highways. The trucking route traverses a number of natural habitat types and anthropogenic land uses. All areas along the route are currently used for public and commercial transportation. Land uses present include developed and disturbed land associated with existing cities, agricultural lands and grazing lands that support cattle, as well as open grasslands and shrublands, with more limited woodlands and localized riparian corridors associated with permanent and intermittent waterways. The topography along the route varies but is generally flat to moderately sloping. The elevation along the proposed trucking route ranges from less than 20 meters above mean sea level (msl) to more than 460 meters above msl.

2.0 Methodology

The following sections describe the methodology employed to identify biological resources and waters resources that may be present along the proposed trucking route.

2.1 Biological Resources

To determine the biological resources with potential to occur along the proposed trucking route, the California Natural Diversity Database (CNDDDB) was searched for records in proximity to the proposed trucking route. The CNDDDB is an inventory of the status and locations of special-status plant and wildlife species throughout the state; it combines historic records as well as more recent data. CNDDDB occurrence records may vary in their geographic accuracy depending on their source; some records are specific to less than 100 meters, while others encompass entire 7.5-minute USGS quadrangles or are characterized as "non-specific".

It is assumed that biological resources closest to the trucking route would be more vulnerable to transport-related oil spills, with vulnerability decreasing with increasing distance from the roadway. Multiple queries were conducted at varying geographic scales to accurately characterize the resources that could occur in the vicinity of the trucking route. A baseline of 500-feet was used as

the conservative estimated distance which oil may travel overland in the event of a spill during transport. However, radii larger than 500 feet also were included in the assessment to account for the fact that the CNDDDB is not considered a complete and all-inclusive dataset, and biological resources, especially wildlife, may move over the landscape over time. The queries included records that overlapped or intersected the proposed trucking route; records within a 500-foot radius of the trucking route; and records within a 1-mile radius and a 5-mile radius of the trucking route.

For the purposes of this assessment, a “special-status species” is defined as a species that meets at least one of the following conditions:

- Listed as threatened or endangered, or as a candidate for such a status, under the federal Endangered Species Act;
- Listed as threatened or endangered, or as a candidate for such a status, under the California Endangered Species Act;
- Designated as State Rare under the California Native Plant Protection Act;
- Designated as Fully Protect or as a California Species of Special Concern by the California Department of Fish and Wildlife;
- Designated with a Rare Plant Rank (RPR) of 1, 2, or 4 by the California Native Plant Society;
- Non-listed species tracked in the CNDDDB and considered sensitive by the CDFW; and,
- Sensitive habitats tracked in the CNDDDB.

Records that were characterized as “Extirpated” were excluded from the assessment; “Possibly Extirpated” records were retained. Non-specific geographic records were retained, and no records were excluded based on date of occurrence, occurrence type (natural occurrence, re-introduction into native range, or introduction outside native range), or other criteria.

2.2 Waters and Wetlands Features

Waters features that are known to occur along the proposed trucking route were identified using the National Hydrography Dataset (NHD; USGS 2023) and the National Wetland Inventory (NWI; USFWS 2023). Linear waters features were classified as ephemeral, intermittent, or permanent; non-linear water features identified in the NHD and NWI were also mapped. Using GIS analysis, mapped waters features were identified as intersecting the proposed trucking route or occurring within 500 feet or 1 mile of the trucking route. It is assumed that waterbodies that occur outside a 1-mile radius of the trucking route would not be subject to impacts due to an inadvertent oil spill during transport; for this reason, these features are excluded from the assessment. However, they are shown and labelled in the figure map book, for reference.

Features mapped in the NHD as ‘blue-line’ features are generally assumed to be federally- or state-jurisdictional within a portion of all of their length. No field investigations were conducted to verify the accuracy of the blue-line features identified during the records search, and no delineation of the boundaries of jurisdictional waters or wetlands was conducted. The proposed project does not include any planned impacts, temporary or permanent, to jurisdictional waters or wetlands along the proposed trucking route; therefore, no jurisdictional delineation is required.

3.0 Assessment Results

The desktop assessment identified numerous occurrences for biological and waters resources in the vicinity of the existing roadways that comprise the proposed trucking route. A summary of these records is provided below, with a focus on species identified as listed or as candidates for listing under the ESA or CESA with records within 500 feet of the proposed trucking route. Tables included in **Appendix A** list the species identified at each search radius. The map book, provided in **Appendix B**, graphically displays the locations of the biological occurrence records and mapped waters features along the proposed trucking route.

3.1 Biological Resources

The literature review of the CNDDDB identified numerous recorded occurrences for special-status plant and wildlife species and some sensitive natural communities along the proposed trucking route. **Table 1** below provides a summary of the records as a function of their distance from the proposed trucking route.

Table 1. Summary of Records Detected Along the Proposed Trucking Route

CNDDDB Occurrence Records	Intersecting Truck Route	500-foot Radius	1-mile Radius	5-Mile Radius
Plants	74 records 35 species	114 records 46 species	314 records 70 species	892 records 93 species
Wildlife	114 records 42 species	142 records 42 species	273 records 57 species	849 records 77 species
<i>Invertebrates</i>	19 records 11 species	25 records 11 species	42 records 13 species	99 records 19 species
<i>Fish</i>	7 records 3 species	7 records 3 species	10 records 3 species	17 records 3 species
<i>Amphibians</i>	5 records 3 species	12 records 3 species	49 records 6 species	232 records 6 species
<i>Reptiles</i>	21 records 6 species	33 records 6 species	68 records 6 species	206 records 10 species
<i>Birds</i>	23 records 7 species	24 records 8 species	38 records 14 species	97 records 22 species
<i>Mammals</i>	39 records 12 species	41 records 12 species	66 records 13 species	198 records 17 species
Natural Communities	3 records 2 communities	3 records 2 communities	11 records 8 communities	42 records 14 communities
Total Records	191	259	598	1,783
Distinct Species/Communities	80	91	135	184

3.1.1 Special-status Plant Species

A total of 74 occurrence records were identified as overlapping the proposed trucking route, including 35 distinct sensitive plant species. Among these records, six are state- or federally-listed, and the remaining 29 are sensitive but not listed.

Within a 500-foot buffer of the proposed trucking route, a total of 114 records, comprising 46 distinct species, were identified during the desktop assessment (CDFW 2023a). Among these records, seven are state- or federally-listed, and the remaining 39 are sensitive but not listed. The seven listed species are discussed in further detail below.

California Jewelflower

California jewelflower (*Caulanthus californicus*) is state and federally endangered and has an RPR of 1B.1 (CDFW 2023a). It occurs on non-alkaline, sandy soils on flats and slopes in grassland chenopod scrub, and pinyon and juniper woodland habitats (CNPS 2023, Jepson eFlora 2023). One record for California jewelflower intersects the proposed trucking route; one additional record occurs within the 500-foot buffer (CDFW 2023a).

Chorro Creek Bog Thistle

Chorro creek bog thistle (*Cirsium fontinales* var. *obispoense*) is listed as federally and state endangered and is designated as RPR 1B.2 (CDFW 2023a). Chorro creek bog thistle occurs in serpentine seeps, streams, and drainages, in a variety of native habitats (CNPS 2023, Jepson eFlora 2023). There is one record for Chorro Creek bog thistle that intersects the trucking route, in the vicinity of Froom Creek in San Luis Obispo County; no additional records occur within the 500-foot buffer (CDFW 2023a).

Gambel's Water Cress

Gambel's water cress (*Nasturtium gambelii*) is listed as federally endangered and state threatened and has a RPR of 1B.1 (CDFW 2023a). Gambel's watercress occurs in marshes and on streambanks and lake margins (CNPS 2023, Jepson eFlora 2023). No records for Gambel's watercress intersect the trucking route; one record occurs within 500 feet of the trucking route and is associated with San Antonio Creek in Santa Barbara County (CDFW 2023a).

Kern Mallow

Kern mallow (*Eremalche parryi* ssp. *kernensis*) is federally endangered and has a RPR of 1B.2 (CDFW 2023a). It occurs in dry openings, including eroded hillsides and alkali flats, in chenopod scrub, pinyon and juniper woodland, and valley and foothill grassland areas (CNPS 2023, Jepson eFlora 2023). One record for kern mallow intersects the proposed trucking route in northeastern San Luis Obispo County; no additional records occur within 500 feet (CDFW 2023a).

San Joaquin Woollythreads

San Joaquin woollythreads (*Monolopia congodonii*) is listed as federally endangered and has a RPR of 1B.2 (CDFW 2023a). It inhabits sandy soils in chenopod scrub and valley and foothill grassland habitats (CNPS 2023, Jepson eFlora 2023). There are three records for San Joaquin woollythreads that intersect the trucking route; no additional records occur within the 500-foot buffer (CDFW 2023a).

Seaside Bird's-beak

Seaside bird's-beak (*Cordylanthus rigidus* ssp. *littoralis*) is listed as state endangered and has a RPR of 1B.1 (CDFW 2023a). It inhabits sandy soils and often disturbed areas in coastal scrub, coastal dunes, maritime chaparral, woodland and coniferous forest habitats (CNPS 2023, Jepson eFlora 2023). Two records for seaside bird's-beak intersect the trucking route, both in the vicinity of the Lompoc Oil Field; an additional three records occur within the 500-foot buffer (CDFW 2023a).

Vandenberg Monkeyflower

Vandenberg monkeyflower (*Diplacus vandenbergensis*) is federally endangered and has a RPR of 1B.1 (CDFW 2023a). It inhabits open, sandy sites among shrubs in chaparral, woodland, and coastal dune habitats (CNPS 2023, Jepson eFlora 2023). One record for Vandenberg monkeyflower intersects the proposed trucking route; an additional four records occur within the 500-foot buffer (CDFW 2023a).

3.1.2 Sensitive Natural Communities

A total of three occurrence records, comprising two distinct communities, were identified as overlapping the proposed trucking route; these results were consistent within a 500-foot radius of the trucking route (CDFW 2023a).

Two records of Central Maritime Chaparral were identified in the vicinity of the start of the trucking route near Lompoc, California. Central Maritime Chaparral is a CDFW-designated sensitive habitat that is dominated by La Purisima manzanita (*Arctostaphylos purisima*) and/or sand mesa manzanita (*A. rudis*), with other manzanita and native scrub shrub species (Sawyer et al. 2009). It is a common community within the Burton Mesa Ecological Preserve, located adjacent to the south of the Lompoc Oil Field (CDFW 2023a).

Southern California Threespine Stickleback Stream is an inland waters habitat type that is mapped in the vicinity of Orcutt, California in northern Santa Barbara County. This habitat supports the unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*) (CDFW 2023a).

3.1.3 Special-status Wildlife Species

A total of 114 occurrence records for special-status wildlife were identified as intersecting the proposal trucking route, representing 42 distinct species. Within a 500-foot radius of the trucking, the number of records increased to 142, although the number of distinct species remained consistent at 42 (CDFW 2023a). A summary by taxonomic group is provided below.

Invertebrates

A total of 19 occurrence records for special-status invertebrates intersect with the proposed trucking route, representing 11 distinct species. At a distance of 500-feet from the trucking route, a total of 25 records were identified (CDFW 2023a). The species represented are dominated by insects, with one mollusk, the San Luis Obispo pyrg (*Pyrgulopsis taylori*), a sensitive but not listed snail species, and one crustacean, the federally threatened vernal pool fairy shrimp (*Branchinecta lynchi*). The nine insect species include the monarch (*Danaus plexippus*), western bumblebee (*Bombus occidentalis*), and Crotch bumblebee (*B. crotchii*), which are candidates for listing under the

ESA or CESA, as well as one additional bumblebee species and five beetles, all of which are sensitive but not listed.

Vernal Pool Fairy Shrimp

Vernal pool fairy shrimp is a federally threatened freshwater crustacean that occurs in vernal pool habitats in California and southern Oregon (USFWS 2007a). One record for vernal pool fairy shrimp intersects the proposed trucking route in the vicinity of Paso Robles, California; two additional records occur within the 500-foot buffer. The records are dated from 2000 to 2005 (CDFW 2023a).

Monarch

The monarch butterfly is a candidate for listing under the ESA. The monarch is a globally-distributed butterfly that depends on milkweed (Genus: *Asclepias*) for breeding habitat and is migratory throughout most of its range. Monarch populations west of the Rocky Mountains may overwinter in Mexico or in coastal California (USFWS 2020a). Four records for monarchs intersect the proposed trucking route; an additional three records occur within the 500-foot buffer (CDFW 2023a). All records are within Santa Barbara and San Luis Obispo Counties and are associated with coastal overwintering sites.

Western Bumble Bee

The western bumble bee is a candidate for listing under the CESA. Western bumble bees require floral-rich habitats with a continuous blooming season from spring through fall to support their annual, underground colonies. They are generalist foragers and important pollinators for many species of wildflower and commercial agricultural crops (Defenders of Wildlife 2015). One record for western bumble bee intersects the proposed trucking route near Pismo Beach, California in San Luis Obispo County; this record is dated 1936 and is specific to a 1-mile radius. No additional records occur within 500 feet of the trucking route (CDFW 2023a).

Crotch Bumble Bee

Crotch bumble bee is a candidate for listing under CESA. Historically, Crotch bumble bees occupied grasslands and shrublands from southern to Central California, particularly in the Central Valley. Crotch bumble bees are generalist foragers and, like many other bumble bee species, build their colonies underground (CDFW 2019). Two records for Crotch bumble bee intersect the proposed trucking route; the records are dated 1959 and 1972 and occur in northern San Luis Obispo County. No additional records occur within a 500-foot radius (CDFW 2023a).

Fish

A total of seven occurrence records for special-status fish were identified both intersecting the trucking route and within a 500-radius of the route. Three species were represented, including one record for unarmored threespine stickleback, two records for tidewater goby (*Eucyclogobius newberryi*), and four records for steelhead (*Oncorhynchus mykiss irideus*) (CDFW 2023a).

Unarmored Threespine Stickleback

Unarmored threespine stickleback is listed as endangered under the CESA and ESA and is designated as a Fully Protected Species by the CDFW (CDFW 2023a). This species inhabits freshwater streams and river reaches with slow, continuous flows and moderate cover of algae, although individuals may occur in rapid headwaters and relatively still pools (USFWS 2021). One record for this species occurs along the trucking route at the crossing of San Antonio Creek (CDFW 2023a).

Tidewater Goby

Tidewater goby is listed as federally endangered. This species inhabits discrete stretches of brackish lagoons and estuaries along the California coast (USFWS 2007b). Two records for this species occur at the crossings of San Luis Obispo Creek and San Antonio Creek (CDFW 2023a).

Steelhead

All steelhead records along the trucking route fall within the range of the federally threatened south-central California Distinct Population Segment (DPS) of steelhead. This species breeds on gravel beds in freshwater creeks and streams, then migrates downstream to estuaries and the Pacific Ocean to mature; adults return to their natal stream to spawn (NMFS 2013). Four records for this species occur along the trucking route, at the crossings for Pismo Creek, San Luis Obispo Creek (two records), Arroyo Grande Creek (CDFW 2023a).

Amphibians

A total of five occurrence records for special-status amphibians were identified as overlapping the proposed trucking route, comprising of three species. Within a 500-foot radius, the number of records increased to 12, but no new species were represented. The species represented included the federally-threatened California red-legged frog (*Rana draytonii*), and the coast range newt (*Taricha torosa*) and western spadefoot toad (*Spea hammondi*), both designated California Species of Special Concern (SSC) by the CDFW (CDFW 2023a).

California red-legged frog

The California red-legged frog is federally threatened and a California Species of Special Concern (CDFW 2023a). It occurs near ephemeral or permanent freshwater ponds and streams with bank vegetation in lowlands and foothills, in woodland, grassland, coastal scrub habitats. Adults may use upland burrows as refugia, and breed in lakes, ponds, reservoirs, marshes, and streams with slow flows (Nafis 2023). A total of three records for California red-legged intersect the proposed trucking route; an additional five records occur within 500 feet of the proposed route. California red-legged frog records are associated with Paso Robles Creek, San Antonio Creek and its tributaries, and Graves Creek (CDFW 2023a).

Reptiles

A total of 21 occurrence records for special-status reptile species were identified as overlapping the proposed trucking route, representing six distinct species. Expanding the search radius to 500 feet, a total of 33 records were identified, but no new species were represented. The blunt-nosed leopard lizard (*Gambelia sila*) was the only species documented within a 1-mile radius of the proposed trucking route that is federally- or state-listed. Other species represented included the western pond

turtle (*Emys marmorata*), San Joaquin coachwhip (*Masticophis flagellum ruddocki*), California glossy snake (*Arizona elegans occidentalis*), silvery legless lizard (*Anniella pulchra*), and coast horned lizard (*Phrynosoma blainvillii*), all of which are designated as Species of Special Concern (CDFW 2023a).

Blunt-nosed leopard lizard

Blunt-nosed leopard lizard is state and federally endangered and a CDFW Fully Protected species (CDFW 2023a). This species occurs in semi-arid grasslands, alkali flats, and washes, preferring relatively flat topography and areas with an open vegetation canopy. Individuals may use burrows and large shrubs for cover, shelter, and thermoregulation (Nafis 2023). Three records for blunt-nosed leopard lizard intersect the proposed trucking route, and an additional one record occurs within 500 feet. All records are either geographically non-specific or have a 1-mile radius and occur in Kings or Fresno County (CDFW 2023a).

Birds

A total of 23 occurrence records representing seven special-status bird species were identified as overlapping the proposed trucking route. Expanding the search radius to 500 feet, the number of occurrence records increased to 24, representing eight species. Three of the identified species were listed at the state or federal level, including the Swainson's hawk (*Buteo swainsoni*), tri-colored blackbird (*Agelaius tricolor*), and least Bell's vireo (*Vireo bellii pusillis*). Other species represented in the search included Le Conti's thrasher (*Toxostoma lecontei*, SSC), yellow rail (*Coturnicops noveboracensis*), the delisted American peregrine falcon (*Falco peregrinus anatum*), and the prairie falcon (*Falco mexicanus*), which is a CDFW Watch List species (CDFW 2023a).

The burrowing owl (*Athene cunicularia*, SSC) was the only new species when the search was expanded to a 500-foot radius; one record for this species was identified in the northeast corner of San Luis Obispo County (CDFW 2023a).

Swainson's Hawk

The Swainson's hawk is listed as threatened under CESA (CDFW 2023a). Swainson's hawks are medium-sized, grassland-adapted raptors that breed in the western United States and overwinter in South America. Their diet is varied but dominated by small rodents, and pairs may nest near agricultural fields, pastures, and roadsides where prey is plentiful (Battistone 2023). A total of seven records for Swainson's hawks intersect the proposed trucking route; no additional records occur within a 500-foot radius of the roadway (CDFW 2023a).

Tri-colored Blackbird

The tri-colored blackbird is listed as threatened under CESA and is a California Species of Special Concern (CDFW 2023a). Tri-colored blackbirds are residents in California that historically bred in large colonies in emergent vegetation of marshes and wetlands; destruction of wetland habitats has pressured this species to adapt to novel environments, such that tri-colored blackbirds increasingly use agricultural areas for foraging and breeding (USFWS 2019). One record for tri-colored blackbird intersects the proposed trucking route, located in an agricultural area in northwest Kings County near the boundary of Fresno County. No other records occur within the 500-foot buffer (CDFW 2023a).

Least Bell's Vireo

The least Bell's vireo is listed as endangered under the ESA and the CESA (CDFW 2023a). The least Bell's vireo are obligate riparian species that breeds in early successional, structurally diverse woodland habitats along waterways. Historically, the species ranged from northern California south to Baja California; extensive habitat loss reduced their distribution severely, such that most breeding habitat occurs from Santa Barbara County south to Mexico (USFWS 1998). One record for least Bell's vireo occurs along the proposed trucking route; the record is associated with the Salinas River in the vicinity of Paso Robles, California and is dated 1947. No additional records occur within 500 feet of the route (CDFW 2023a).

Mammals

A total of 39 occurrence records for special-status mammals intersect the proposed trucking route, representing 12 distinct species. An additional two records also occur within a 500-foot radius of the route, but no new species are represented. Two federally- or state-listed species, including the San Joaquin kit fox (*Vulpes macrotis mutica*) and Nelson's antelope squirrel (*Ammospermophilus nelsoni*) are represented in the dataset. Other species represented include American badger (*Taxidea taxus*, SSC), short-nosed kangaroo rat (*Dipodomys nitratooides brevinasus*, SSC), Tulare grasshopper mouse (*Corynorhinus townsendii*, SSC), and five species of bats. Three of the bat species, including the pallid bat (*Antrozous pallidus*), western mastiff bat (*Eumops perotis californicus*), and western red bat (*Lasiurus frantzii*), are California Species of Special Concern (CDFW 2023a).

San Joaquin Kit Fox

San Joaquin kit fox is listed as federally endangered and state threatened (CDFW 2023a). This species inhabits areas with sparse vegetation on gentle slopes in scrubland and annual grassland communities where friable soils suitable for denning are present; anthropogenic communities, such as grazed lands, urban areas, oil and gas production fields, also may be occupied (USFWS 2020). The CNDDDB contains eight records for San Joaquin kit fox that intersect with the proposed trucking route in western San Luis Obispo County and Kings County; no additional records occur within the 500-foot buffer (CDFW 2023a).

Nelson's Antelope Squirrel

Nelson's antelope squirrel is listed as threatened under CESA (CDFW 2023a). Nelson's antelope squirrels are ground-dwelling species that inhabit arid grassland, shrubland, and alkali sink habitats of the San Joaquin Valley and adjacent foothills (Brown and Williams 2023). The CNDDDB contains two records for Nelson's antelope squirrel that intersect with the proposed trucking route; no additional records occur within the 500-foot buffer (CDFW 2023a).

3.2 Waters and Wetlands Features

The proposed trucking route intersects numerous waterways at existing roadway crossings. The majority of these features are unnamed, ephemeral drainages, that are anticipated to convey water only during and for a short duration of time after significant rain events. The map book included in **Appendix B** displays the waterways' locations along the route.

Linear features that are mapped in the NHD as supporting perennial flows where they intersect with the trucking route include the following waterways:

- San Antonio Creek
- Arroyo Grande Creek
- Pismo Creek
- San Luis Obispo Creek
- Cholame Creek

Linear features that are mapped in the NHD as supporting intermittent flows where they intersect with the trucking route include the following waterways:

- Atascadero Creek
- Brizzolara Creek
- Dry Creek
- Estrella River
- Graves Creek
- Huerheuro Creek
- Los Berros Creek
- Nipomo Creek
- Orcutt Creek
- Paloma Creek
- Paso Robles Creek
- Pine Creek
- Prefumo Creek
- Salinas River
- Santa Margarita Creek
- Santa Maria River

Portions of San Antonio Creek and Santa Margarita Creek are perennial within the 500-foot buffer of the proposed trucking route, but the crossings are mapped in the NHD as intermittent.

Additionally, approximately 101 features mapped as ephemeral, intersect the proposed trucking route. Most of these are unnamed, with the exception of Froom Creek and a reach of Prefumo Creek that is mapped as ephemeral. Ephemeral waterways may include small tributaries of larger waterways, but also includes ditches, drainages, and manmade features that do not connect to other waterways. Ephemeral features are anticipated to support surface flows only during and immediately after significant rain events.

The NWI did not contain any records for vernal pool features within a 500-foot buffer of the proposed trucking route; other wetland features were generally associated with NHD-mapped linear waterways and are displayed in **Appendix B**.

4.0 References

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APPENDIX A
CNDDB Records Tables

Table A-1. Special-status Species with Occurrence Records that Overlap the Proposed Trucking Route

Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Plants								
<i>Agrostis hooveri</i>	Hoover's bent grass	San Luis Obispo	Perennial herb	Dry, sandy soils in open chaparral, coniferous woodland, grasslands, and oak woodland habitats up to 600 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Antirrhinum ovatum</i>	Oval-leaved snapdragon	San Luis Obispo	Annual herb	Heavy clay, alkaline soils on gentle, open slopes in chaparral, woodland, and grassland habitats and disturbed areas, from 200 to 1,400 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	4.2	
<i>Arctostaphylos pilosula</i>	Santa Margarita manzanita	San Luis Obispo	Perennial evergreen shrub	Shale or sandstone soils, outcrops, and slopes in chaparral habitats from 30 to 1,250 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Arctostaphylos purissima</i>	La Purisima manzanita	Santa Barbara	Perennial evergreen shrub	Sandstone soils and outcrops in chaparral and coastal scrub habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Arctostaphylos refugioensis</i>	Refugio manzanita	Santa Barbara	Perennial evergreen shrub	Sandstone outcrops in chaparral habitats from 300 to 820 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Arctostaphylos rudis</i>	Sand mesa manzanita	San Luis Obispo, Santa Barbara	Perennial evergreen shrub	Sandy soils in coastal scrub and chaparral habitats up to 380 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Calochortus obispoensis</i>	San Luis mariposa-lily	San Luis Obispo	Perennial bulbiferous herb	Dry, serpentine soils in open chaparral, grassland, woodland, and coastal scrub habitats from 100 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Caulanthus californicus</i>	California jewelflower	Kern, Kings, San Luis Obispo	Annual herb	Non-alkaline sandy soils, on flats and slopes in grasslands, chenopod scrub, and pinyon and juniper woodland habitats from 70 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	Endangered	1B.1	
<i>Ceanothus impressus</i> var. <i>impressus</i>	Santa Barbara ceanothus	Santa Barbara	Perennial shrub	Sandy soils in canyons and flats dominated by chaparral habitats up to 320 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	San Luis Obispo	Perennial herb	Serpentine seeps, streams and drainages in chaparral, woodland, scrub, and grassland habitats up to 350 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	Endangered	1B.2	
<i>Cladium californicum</i>	California saw-grass	Santa Barbara	Perennial rhizomatous herb	Meadows, seeps, and alkaline marshes and swamps up to 2,150 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	2B.2	
<i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	Seaside bird's-beak	Santa Barbara	Hemiparasitic annual herb	Sandy soils in coastal dunes and scrub, chaparral, woodland and coniferous forest habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	Endangered	1B.1	

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Deinandra halliana</i>	Hall's tarplant	San Luis Obispo	Annual herb	Clay or sometimes alkaline or serpentine soils on open slopes, sink edges, and grasslands from 300 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Delphinium parryi</i> <i>ssp. blochmaniae</i>	Dune larkspur	Santa Barbara, San Luis Obispo	Perennial herb	Sandy soils in coastal dune and coastal chaparral habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Delphinium parryi</i> <i>ssp. eastwoodiae</i>	Eastwood's larkspur	San Luis Obispo	Perennial herb	Serpentine soils in coastal chaparral and grassland habitats from 100 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Delphinium recurvatum</i>	Recurved larkspur	Kern	Perennial herb	Poorly drained, fine, alkaline soils in grassland and <i>Atriplex</i> scrub habitats from 30 to 600 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Diplacus vandenbergensis</i>	Vandenberg monkeyflower	Santa Barbara	Annual herb	Open, sandy sites among shrubs in chaparral, coastal dune, and woodland habitats from 75 to 120 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.1	
<i>Dudleya abramsii</i> <i>ssp. murina</i>	Mouse-gray dudleya	San Luis Obispo	Perennial herb	Serpentine outcrops in chaparral, cismontane woodland, and grassland habitats 120 to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.3	

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Eremalche parryi</i> <i>ssp. kernensis</i>	Kern mallow	San Luis Obispo	Annual herb	Dry openings on sandy or clay soils, eroded hillsides and alkali flats in chenopod scrub, pinyon and juniper woodland, and grassland habitats from 100 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.2	
<i>Eriastrum luteum</i>	Yellow-flowered eriastrum	San Luis Obispo	Annual herb	Drying slopes with sandy or gravelly soils in chaparral and upland forest habitats up to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Eriogonum temblorense</i>	Temblor buckwheat	San Luis Obispo	Annual herb	Valley and foothill grassland (clay, sandstone) and sand in elevations ranging from 300 to 1000 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Fritillaria ojaiensis</i>	Ojai fritillary	San Luis Obispo	Perennial bulbiferous herb	Rocky slopes and river basins in woodland and chaparral habitats from 300 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Horkelia cuneata</i> <i>var. puberula</i>	Mesa horkelia	Santa Barbara, San Luis Obispo	Perennial herb	Dry, sandy or gravelly soils in coastal chaparral, woodland, and scrub habitats from 70 to 870 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Horkelia cuneata</i> <i>var. sericea</i>	Kellogg's horkelia	San Luis Obispo	Perennial herb	Sandy or gravelly soils in openings on old dunes and coastal sandhills up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Layia heterotricha</i>	Pale-yellow layia	Santa Barbara, San Luis Obispo	Annual herb	Open clay or sandy soils, sometimes alkaline soils, in grassland, scrub, or woodland habitats from 200 to 1,800 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Layia jonesii</i>	Jones' layia	San Luis Obispo	Annual herb	Open serpentine or clay slopes in chaparral and grassland habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Layia munzii</i>	Munz's tidy-tips	San Luis Obispo	Annual herb	Alkaline, clay soils in chenopod scrub and grassland habitats from 50 to 800 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Madia radiata</i>	Showy golden madia	Kern, San Luis Obispo	Annual herb	Clay and rarely serpentine soils on grassy, open slopes in woodland and grassland habitats from 20 to 1,200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Monardella sinuata</i> ssp. <i>sinuata</i>	Southern curly-leaved monardella	Santa Barbara, San Luis Obispo	Annual herb	Sandy soils in coastal dune, strand, and <i>Artemisia californica</i> scrub, chaparral and <i>Quercus</i> woodland habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Monardella undulata</i> ssp. <i>undulata</i>	San Luis Obispo monardella	San Luis Obispo	Perennial rhizomatous herb	Stabilized sandy soils in coastal dune and scrub habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Monolopia congdonii</i>	San Joaquin woollythreads	Fresno, Kings	Annual herb	Sandy soils in chenopod scrub and grassland habitats from 90 to 700 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.2	

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<i>Scrophularia atrata</i>	Black-flowered figwort	San Luis Obispo, Santa Barbara	Annual herb	Calcium- and diatom-rich soils in coniferous woodland, chaparral, coastal dunes and scrub, and riparian scrub habitats up to 400 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Senecio aphanactis</i>	Chaparral ragwort	San Luis Obispo	Annual herb	Alkaline flats and dry, rocky areas in chaparral, woodland, and coastal scrub habitats from 10 to 550 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	2B.2	
<i>Stylocline masonii</i>	Mason's neststraw	San Luis Obispo	Annual herb	Open, loose sandy soils in washes and flats in chenopod scrub and pinyon-juniper woodland habitats from 100 to 1,200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Symphotrichum defoliatum</i>	San Bernardino aster	Santa Barbara	Perennial rhizomatous herb	Mesic areas such as seeps, swamps, streambanks, and edges of ditches in grassland, cismontane and coniferous woodland, coastal scrub, and disturbed habitats up to 2,050 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
Natural Communities								
Central Maritime Chaparral	Central Maritime Chaparral	Santa Barbara	Scrub		None	None		
Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream	Santa Barbara	Inland Waters		None	None		

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Invertebrates								
<i>Atractelmis wawona</i>	Wawona riffle beetle	San Luis Obispo	Insecta, Coleoptera	Occurs in riffle segments of rapid flowing freshwater streams from 610 to 1,524 meters elevation (NatureServe 2023).	None	None		
<i>Bombus caliginosus</i>	Obscure bumble bee	San Luis Obispo, Kern	Insecta, Hymenoptera	Forms colonies underground or in abandoned bird nests, in open, grassy coastal grasslands, shrublands, and coastal meadows. Forages on <i>Ceanothus</i> , <i>Cirsium</i> , <i>Lupinus</i> , <i>Rubus</i> , <i>Trifolium</i> , and other species (Hatfield et al. 2014).	None	None		
<i>Bombus crotchii</i>	Crotch bumble bee	San Luis Obispo	Insecta, Hymenoptera	Generalist forager that maintains underground colonies in grassland and shrubland habitats (CDFW 2019).	None	Candidate Endangered		
<i>Bombus occidentalis</i>	Western bumble bee	San Luis Obispo	Insecta, Hymenoptera	Generalist forager that maintains underground colonies in floral-rich habitats with a continuous blooming season from spring through fall (Defenders of Wildlife 2015).	None	Candidate Endangered		
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	San Luis Obispo	Crustacea, Branchiopoda	Vernal pool habitats from California to southern Oregon (USFWS 2007a).	Threatened	None		
<i>Danaus plexippus plexippus</i> , population 1	Monarch - California overwintering population	San Luis Obispo, Santa Barbara	Insecta, Lepidoptera	Migratory, but individuals present year-round in coastal California. Breeds exclusively on <i>Asclepias</i> plants. Overwinters in <i>Eucalyptus</i> , cypress, or other coastal groves with suitable microhabitat conditions including temperature, wind speed, sun exposure, etc. (USFWS 2020a).	Candidate	None		

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<i>Lytta hoppingi</i>	Hopping's blister beetle	Fresno	Insecta, Coleoptera	Limited information available. Adults known to use flowers, some observations on agricultural alfalfa (Shanks 2005a).	None	None		
<i>Lytta morrisoni</i>	Morrison's blister beetle	Fresno	Insecta, Coleoptera	Limited information available. Adults known to use <i>Gilia tricolor</i> and <i>Linanthus liniflorus</i> (Shanks 2005b).	None	None		
<i>Polyphylla nubila</i>	Atascadero June beetle	San Luis Obispo	Insecta, Coleoptera	Limited information available. Adults of genus <i>Porphylla</i> generally forage on tree foliage and are associated with forested and orchard habitats (BugGuide 2023). Occurrences known in Atascadero region (CDFW 2023a).	None	None		
<i>Pyrgulopsis taylori</i>	San Luis Obispo pyrg	San Luis Obispo	Mollusca, Gastropoda	Areas with exposed rocks and leafy detritus along freshwater courses. Known only from the San Luis Obispo Creek watershed (Herschler 1995).	None	None		
<i>Trimerotropis occulens</i>	Lompoc grasshopper	San Luis Obispo	Insecta, Orthoptera	Occurs in areas with pale, gravelly or rocky substrates. Range restricted to western Santa Barbara County. <i>Trimerotropis</i> grasshoppers typically prefer moderately dry, sunny habitats that are at least somewhat bare and exposed (Ferguson 2010).	None	None		
Fish								

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<i>Eucyclogobius newberryi</i>	Tidewater goby	San Luis Obispo	Gobiiformes	Discrete stretches of brackish lagoons and estuaries along the California coast, near the saltwater/freshwater interface. Tolerant of a range of salinity and temperature levels (USFWS 2007b).	Endangered	None		
<i>Gasterosteus aculeatus williamsoni</i>	Unarmored threespine stickleback	Santa Barbara	Scorpaeniformes	Freshwaters streams and river reaches with slow, continuous flows and moderate cover of algae, may periodically use faster-moving headwaters (USFWS 2021).	Endangered	Endangered		FP
<i>Oncorhynchus mykiss irideus</i> , population 9	Steelhead - south-central California coast DPS	San Luis Obispo	Salmoniformes	Anadromous. Breeds on gravel beds in freshwater creeks and streams, then migrates downstream to estuaries and the Pacific Ocean to mature (NMFS 2013).	Threatened	None		
Amphibians								
<i>Rana draytonii</i>	California red-legged frog	San Luis Obispo	Anura	Near ephemeral to permanent freshwater ponds, streams, and other slow-moving water bodies with bank and emergent vegetation, up to 1,525 meters elevation (Nafis 2023).	Threatened	None		SSC

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<i>Spea hammondi</i>	Western spadefoot	San Luis Obispo	Anura	Generally terrestrial as adults. Prefers open areas with sandy or gravelly soils in a variety of habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, foothills, and mountains up to 1,365 meters elevation. Require seasonal pools free of <i>Lithobates catesbeianus</i>), fish, and crayfish for breeding (Nafis 2023).	None	None		SSC
<i>Taricha torosa</i>	Coast Range newt	San Luis Obispo	Urodela	Occurs in wet forests, oak forests, chaparral, and gently sloped grassland habitats up to 1,280 meters elevation (Nafis 2023).	None	None		SSC
Reptiles								
<i>Anniella pulchra</i>	Northern California legless lizard	Santa Barbara, San Luis Obispo	Squamata	Occurs in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks up to 1,189 meters elevation (Nafis 2023).	None	None		SSC
<i>Arizona elegans occidentalis</i>	California glossy snake	Fresno, San Luis Obispo	Squamata, Serpentes	Inhabits arid scrub, rocky washes, grasslands, chaparral from up to about 2,200 meters elevation (Nafis 2023).	None	None		SSC

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<i>Emys marmorata</i>	Western pond turtle	San Luis Obispo	Testudines	Found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches with abundant vegetation and rocky or muddy bottoms, in woodland, forest, and grassland habitats. In streams, prefers pools to shallower areas up to 2,041 meters elevations but mostly below 1,371 meters elevation (Nafis 2023).	None	None		SSC
<i>Gambelia sila</i>	Blunt-nosed leopard lizard	Fresno, Kings	Squamata	Occurs in semi-arid grasslands, alkali flats, and washes, preferring relatively flat topography and areas with an open vegetation canopy from 30 to 730 meters elevation (Nafis 2023).	Endangered	Endangered		FP
<i>Masticophis flagellum ruddocki</i>	San Joaquin coachwhip	Kings, San Luis Obispo	Squamata, Serpentes	Occurs in open, dry, treeless areas with little or no cover, including valley grassland and saltbush scrub (Nafis 2023).	None	None		SSC
<i>Phrynosoma blainvillii</i>	Coast horned lizard	San Luis Obispo	Squamata	Inhabits open areas of sandy soil and low vegetation in valleys, foothills and semiarid mountains, grasslands, coniferous forests, woodlands, and chaparral up to 2,438 meters elevation (Nafis 2023).	None	None		SSC
Birds								
<i>Agelaius tricolor</i>	Tricolored blackbird	Kings	Passeriformes	Resident, colonial nesting and may occur in mixed flocks outside of breeding season. Occurs in marshes and wetlands with emergent vegetation and agricultural areas (USFWS 2019).	None	Threatened		SSC

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Buteo swainsoni</i>	Swainson's hawk	San Luis Obispo, Fresno, Kern	Accipitriformes	Migratory, breeds in California. Occurs in grassland habitats including agricultural fields and pastures, and roadsides where small rodents are abundant (Battistone 2023).	None	Threatened		
<i>Coturnicops noveboracensis</i>	Yellow rail	San Luis Obispo	Gruiformes	Shallow marshes, and wet meadows; in winter, drier freshwater and brackish marshes, as well as dense, deep grass, and rice fields. Nests typically occur in shall marshes (USFWS 2023a).	None	None		SSC
<i>Falco mexicanus</i>	Prairie falcon	San Luis Obispo, Kern, Kings	Falconiformes	Distributed from annual grasslands to alpine meadows, but associated primarily with perennial grasslands, savannahs, rangeland, some agricultural fields, and desert scrub areas (CWHR 2023).	None	None		WL
<i>Falco peregrinus anatum</i>	American peregrine falcon	Santa Barbara	Falconiformes	Most often utilize habitats containing cliffs for breeding and almost always nest near water. Occur in open habitats for foraging. Many artificial habitats like towers, bridges and buildings are also utilized (USFWS 2023a).	Delisted	Delisted		FP
<i>Toxostoma lecontei</i>	Le Conte's thrasher	Fresno	Passeriformes	Occurs primarily in open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats; also occurs in Joshua tree habitat with scattered shrubs (CWHR 2023).	None	None		SSC

Table A-1. Special-status Species with Occurrence Records that Overlap the Proposed Trucking Route

Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Vireo bellii pusillus</i>	Least Bell's vireo	San Luis Obispo	Passeriformes	Obligate riparian species that breeds in early successional, structurally diverse woodland habitats, often with <i>Baccharis salicifolia</i> or <i>Salix</i> , along waterways (USFWS 1998).	Endangered	Endangered		
Mammals								
<i>Ammospermophilus nelsoni</i>	Nelson's (=San Joaquin) antelope squirrel	San Luis Obispo, Kern	Rodentia	Ground-dwelling. Inhabit arid grassland, shrubland, and alkali sink habitats of the San Joaquin Valley and adjacent foothills (Brown and Williams 2023a).	None	Threatened		
<i>Antrozous pallidus</i>	Pallid bat	San Luis Obispo, Santa Barbara	Chiroptera	Occur in low elevation (below 1,830 meters) rocky arid deserts and canyonlands, shrub-steppe grasslands, karst formations, and higher elevation coniferous forests (above 2,100 meters) (WBWG 2023).	None	None		SSC
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	Santa Barbara, San Luis Obispo	Chiroptera	Occur in a wide range of habitat types from sea level to 3,300 meters elevation. Habitat associations include coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types (WBWG 2023).	None	None		SSC

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Dipodomys nitratoides brevinasus</i>	Short-nosed kangaroo rat	Fresno	Rodentia	Inhabit grasslands with scattered shrubs and desert-shrub associations on powdery soils, such as sandy area. Inhabit highly saline soils around Soda Lake on the Carrizo Plain, and less saline soils elsewhere (Brown and Williams 2023b).	None	None		SSC
<i>Eumops perotis californicus</i>	Western mastiff bat	San Luis Obispo	Chiroptera	Occurs in a variety of habitats from desert scrub to chaparral to oak woodland and into the ponderosa pine belt and high elevation meadows of mixed conifer forests (WBWG 2023).	None	None		SSC
<i>Lasiurus cinereus</i>	Hoary bat	Santa Barbara	Chiroptera	Occur in forested habitats with roosts usually at the edge of clearings (WBWG 2023).	None	None		
<i>Lasiurus frantzii</i>	Western red bat	Santa Barbara	Chiroptera	Occur in a variety of habitats including riparian habitats such as willows, cottonwoods, and sycamores, shrubs, open fields, in orchards, and sometimes in urban areas (WBWG 2023).	None	None		SSC
<i>Myotis yumanensis</i>	Yuma myotis	Santa Barbara	Chiroptera	Found in a wide variety of habitats ranging up to 3,300 meters elevation, but uncommon to rare above 2,560 meters. Optimal habitats are open forests and woodlands with sources of water over which to feed (CWHR 2023).	None	None		

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Scientific Name ¹	Common Name ¹	Counties ¹	Lifeform/ Taxon ¹	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Onychomys torridus tularensis</i>	Tulare grasshopper mouse	Kings, San Luis Obispo	Rodentia	Inhabit shrubland communities in hot, arid grassland and shrubland associations, including blue oak woodlands at 450 meters elevation, upper sonoran subshrub scrub community, alkali sink and mesquite associations, and grasslands associations on the sloping margins of the San Joaquin Valley and Carrizo Plain region.	None	None		SSC
<i>Perognathus inornatus</i>	San Joaquin pocket mouse	San Luis Obispo	Rodentia	Occurs in dry, open grasslands or scrub areas on fine-textured soils between 350 and 600 meters elevation in the Central and Salinas valleys (CWHR 2023).	None	None		
<i>Taxidea taxus</i>	American badger	San Luis Obispo, Santa Barbara, Kings	Carnivora	Occurs in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils (CWHR 2023).	None	None		SSC
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	San Luis Obispo, Kings	Carnivora	Areas with sparse vegetation on gentle slopes in scrubland and annual grassland communities where friable soils suitable for denning are present, as well as anthropogenic communities, such as grazed lands, urban areas, oil and gas production fields (USFWS 2020).	Endangered	Threatened		

¹ Source: CDFW 2023a.² Status Definitions**Rare Plant Ranks**

1A.: Plants presumed extirpated in California and either rare or extinct elsewhere.

1B: Plants rare, threatened, or endangered in California and elsewhere.

2A.: Plants presumed extirpated in California but common elsewhere.

2B: Plants rare, threatened, or endangered in California but more common elsewhere.

3.: Review List: Plants about which more information is needed.

4.: Watch List: Plants of limited distribution.

.1: Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat).

.2: Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat).

.3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known).

CDFW

FP = Fully Protected

WL = Watch List

SSC = California Species of Special Concern

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Plants						
<i>Agrostis hooveri</i>	Hoover's bent grass	Dry, sandy soils in open chaparral, coniferous woodland, grasslands, and oak woodland habitats up to 600 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Antirrhinum ovatum</i>	Oval-leaved snapdragon	Heavy clay, alkaline soils on gentle, open slopes in chaparral, woodland, and grassland habitats and disturbed areas, from 200 to 1,400 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	4.2	
<i>Arctostaphylos luciana</i>	Santa Lucia manzanita	Cismontane woodland, shale outcrops, slopes, upland chaparral near the coast in elevations of 350 to 850 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Arctostaphylos pilosula</i>	Santa Margarita manzanita	Shale or sandstone soils, outcrops, and slopes in chaparral habitats from 30 to 1,250 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Arctostaphylos purissima</i>	La Purisima manzanita	Sandstone soils and outcrops in chaparral and coastal scrub habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Arctostaphylos refugioensis</i>	Refugio manzanita	Sandstone outcrops in chaparral habitats from 300 to 820 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Arctostaphylos rudis</i>	Sand mesa manzanita	Sandy soils in coastal scrub and chaparral habitats up to 380 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Atriplex coronata</i> var. <i>vallicola</i>	Lost Hills crownscale	Chenopod scrub, valley and foothill grassland, vernal pools and dried ponds, and alkaline soils in elevations up to 635 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Calochortus obispoensis</i>	San Luis mariposa-lily	Dry, serpentine soils in open chaparral, grassland, woodland, and coastal scrub habitats from 100 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Calystegia subacaulis</i> ssp. <i>episcopalis</i>	Cambria morning-glory	Dry, open scrub, woodland, chaparral, cismontane woodland, coastal prairie and valley and foothill grassland in elevations less than 500 meters (CNPS 2023, Jepson eFlora 2023).	None	None	4.2	
<i>Castilleja densiflora</i> var. <i>obispoensis</i>	San Luis Obispo owl's-clover	Meadows and seeps, valley, coastal and foothill grasslands in elevations less than 430 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Caulanthus californicus</i>	California jewelflower	Non-alkaline sandy soils, on flats and slopes in grasslands, chenopod scrub, and pinyon and juniper woodland habitats from 70 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	Endangered	1B.1	
<i>Caulanthus lemmonii</i>	Lemmon's jewelflower	Valley and foothill grassland, chaparral, scrub and pinyon and juniper woodland from 80 to 1,580 meters in elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>impressus</i>	Santa Barbara ceanothus	Sandy soils in canyons and flats dominated by chaparral habitats up to 320 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>nipomensis</i>	Nipomo Mesa ceanothus	Sandy substrates, flats, canyons and chaparral in low elevations less than 245 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Chorizanthe breweri</i>	Brewer's spineflower	Closed-cone coniferous forest, chaparral, cismontane woodland and coastal scrub on gravelly and rocky soils. Elevation ranges from 45 to 800 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.3	
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	Serpentine seeps, streams and drainages in chaparral, woodland, scrub, and grassland habitats up to 350 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	Endangered	1B.2	
<i>Cirsium occidentale</i> var. <i>lucianum</i>	Cuesta Ridge thistle	Chaparral, woodland or forest openings, often on serpentine in elevations from 500 to 750 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Cladium californicum</i>	California saw-grass	Meadows, seeps, and alkaline marshes and swamps up to 2,150 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	2B.2	
<i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	Seaside bird's-beak	Sandy soils in coastal dunes and scrub, chaparral, woodland and coniferous forest habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	Endangered	1B.1	
<i>Deinandra halliana</i>	Hall's tarplant	Clay or sometimes alkaline or serpentine soils on open slopes, sink edges, and grasslands from 300 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Delphinium parryi</i> ssp. <i>blochmaniae</i>	Dune larkspur	Sandy soils in coastal dune and coastal chaparral habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Delphinium parryi</i> <i>ssp. eastwoodiae</i>	Eastwood's larkspur	Serpentine soils in coastal chaparral and grassland habitats from 100 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Delphinium recurvatum</i>	Recurved larkspur	Poorly drained, fine, alkaline soils in grassland and <i>Atriplex</i> scrub habitats from 30 to 600 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Diplacus vanderbergensis</i>	Vandenberg monkeyflower	Open, sandy sites among shrubs in chaparral, coastal dune, and woodland habitats from 75 to 120 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.1	
<i>Dudleya abramsii</i> <i>ssp. murina</i>	Mouse-gray dudleya	Serpentine outcrops in chaparral, cismontane woodland, and grassland habitats 120 to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.3	
<i>Eremalche parryi</i> <i>ssp. kernensis</i>	Kern mallow	Dry openings on sandy or clay soils, eroded hillsides and alkali flats in chenopod scrub, pinyon and juniper woodland, and grassland habitats from 100 to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.2	
<i>Eriastrum luteum</i>	Yellow-flowered eriastrum	Drying slopes with sandy or gravelly soils in chaparral and upland forest habitats up to 1,000 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Eriogonum temblorense</i>	Temblor buckwheat	Valley and foothill grassland (clay, sandstone) and sand in elevations ranging from 300 to 1000 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Fritillaria ojaiensis</i>	Ojai fritillary	Rocky slopes and river basins in woodland and chaparral habitats from 300 to 500 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Horkelia cuneata</i> var. <i>puberula</i>	Mesa horkelia	Dry, sandy or gravelly soils in coastal chaparral, woodland, and scrub habitats from 70 to 870 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	Sandy or gravelly soils in openings on old dunes and coastal sandhills up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Layia heterotricha</i>	Pale-yellow layia	Open clay or sandy soils, sometimes alkaline soils, in grassland, scrub, or woodland habitats from 200 to 1,800 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Layia jonesii</i>	Jones' layia	Open serpentine or clay slopes in chaparral and grassland habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Layia munzii</i>	Munz's tidy-tips	Alkaline, clay soils in chenopod scrub and grassland habitats from 50 to 800 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Madia radiata</i>	Showy golden madia	Clay and rarely serpentine soils on grassy, open slopes in woodland and grassland habitats from 20 to 1,200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	
<i>Monardella palmeri</i>	Palmer's monardella	Chaparral, cismontane woodland, forest, on serpentine in elevations ranging from 200 to 800 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Monardella sinuata</i> ssp. <i>sinuata</i>	Southern curly-leaved monardella	Sandy soils in coastal dune, strand, and <i>Artemisia californica</i> scrub, chaparral and <i>Quercus</i> woodland habitats up to 300 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Monardella undulata</i> ssp. <i>undulata</i>	San Luis Obispo monardella	Stabilized sandy soils in coastal dune and scrub habitats up to 200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Monolopia congdonii</i>	San Joaquin woollythreads	Sandy soils in chenopod scrub and grassland habitats from 90 to 700 meters elevation (CNPS 2023, Jepson eFlora 2023).	Endangered	None	1B.2	
<i>Nasturtium gambelii</i>	Gambel's water cress	Marshes and swamps (brackish, freshwater), streambanks, and lake margins in elevations less than 350 meters (CNPS 2023, Jepson eFlora 2023).	Endangered	Threatened	1B.1	
<i>Navarretia nigelliformis</i> ssp. <i>radians</i>	Shining navarretia	Cismontane woodland, valley and foothill grassland, vernal pools and clay depressions in elevations ranging from 65 to 1,000 meters (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Scrophularia atrata</i>	Black-flowered figwort	Calcium- and diatom-rich soils in coniferous woodland, chaparral, coastal dunes and scrub, and riparian scrub habitats up to 400 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
<i>Senecio aphanactis</i>	Chaparral ragwort	Alkaline flats and dry, rocky areas in chaparral, woodland, and coastal scrub habitats from 10 to 550 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	2B.2	
<i>Stylocline masonii</i>	Mason's neststraw	Open, loose sandy soils in washes and flats in chenopod scrub and pinyon-juniper woodland habitats from 100 to 1,200 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.1	

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Symphotrichum defoliatum</i>	San Bernardino aster	Mesic areas such as seeps, swamps, streambanks, and edges of ditches in grassland, cismontane and coniferous woodland, coastal scrub, and disturbed habitats up to 2,050 meters elevation (CNPS 2023, Jepson eFlora 2023).	None	None	1B.2	
Natural Communities						
Central Maritime Chaparral	Central Maritime Chaparral		None	None		
Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream		None	None		
Invertebrates						
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	Vernal pool habitats from California to southern Oregon (USFWS 2007a).	Threatened	None		
<i>Atractelmis wawona</i>	Wawona riffle beetle	Occurs in riffle segments of rapid flowing freshwater streams from 610 to 1,524 meters elevation (NatureServe 2023).	None	None		
<i>Lytta hoppingi</i>	Hopping's blister beetle	Limited information available. Adults known to use flowers, some observations on agricultural alfalfa (Shanks 2005a).	None	None		
<i>Lytta morrisoni</i>	Morrison's blister beetle	Limited information available. Adults known to use <i>Gilia tricolor</i> and <i>Linanthus liniflorus</i> (Shanks 2005b).	None	None		
<i>Polyphylla nubila</i>	Atascadero June beetle	Limited information available. Adults of genus <i>Porphylla</i> generally forage on tree foliage and are associated with forested and orchard habitats (BugGuide 2023). Occurrences known in Atascadero region (CDFW 2023a).	None	None		
<i>Bombus caliginosus</i>	Obscure bumble bee	Forms colonies underground or in abandoned bird nests, in open, grassy coastal grasslands, shrublands, and coastal meadows. Forages on <i>Ceanothus</i> , <i>Cirsium</i> , <i>Lupinus</i> , <i>Rubus</i> , <i>Trifolium</i> , and other species (Hatfield et al. 2014).	None	None		
<i>Bombus crotchii</i>	Crotch bumble bee	Generalist forager that maintains underground colonies in grassland and shrubland habitats (CDFW 2019).	None	Candidate Endangered		
<i>Bombus occidentalis</i>	Western bumble bee	Generalist forager that maintains underground colonies in floral-rich habitats with a continuous blooming season from spring through fall (Defenders of Wildlife 2015).	None	Candidate Endangered		

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Danaus plexippus plexippus</i> population 1	Monarch - California overwintering population	Migratory, but individuals present year-round in coastal California. Breeds exclusively on <i>Asclepias</i> plants. Overwinters in <i>Eucalyptus</i> , cypress, or other coastal groves with suitable microhabitat conditions including temperature, wind speed, sun exposure, etc. (USFWS 2020a).	Candidate	None		
<i>Trimerotropis occulens</i>	Lompoc grasshopper	Occurs in areas with pale, gravelly or rocky substrates. Range restricted to western Santa Barbara County. <i>Trimerotropis</i> grasshoppers typically prefer moderately dry, sunny habitats that are at least somewhat bare and exposed (Ferguson 2010).	None	None		
<i>Pyrgulopsis taylori</i>	San Luis Obispo pyrg	Areas with exposed rocks and leafy detritus along freshwater courses. Known only from the San Luis Obispo Creek watershed (Herschler 1995).	None	None		
Fish						
<i>Eucyclogobius newberryi</i>	Tidewater goby	Discrete stretches of brackish lagoons and estuaries along the California coast, near the saltwater/freshwater interface. Tolerant of a range of salinity and temperature levels (USFWS 2007b).	Endangered	None		
<i>Oncorhynchus mykiss irideus</i> population 9	Steelhead - south-central California coast DPS	Freshwaters streams and river reaches with slow, continuous flows and moderate cover of algae, may periodically use faster-moving headwaters (USFWS 2021).	Threatened	None		
<i>Gasterosteus aculeatus williamsoni</i>	Unarmored threespine stickleback	Anadromous. Breeds on gravel beds in freshwater creeks and streams, then migrates downstream to estuaries and the Pacific Ocean to mature (NMFS 2013).	Endangered	Endangered		FP
Amphibians						
<i>Rana draytonii</i>	California red-legged frog	Near ephemeral to permanent freshwater ponds, streams, and other slow-moving water bodies with bank and emergent vegetation, up to 1,525 meters elevation (Nafis 2023).	Threatened	None		SSC

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Spea hammondi</i>	Western spadefoot	Generally terrestrial as adults. Prefers open areas with sandy or gravelly soils in a variety of habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, foothills, and mountains up to 1,365 meters elevation. Require seasonal pools free of <i>Lithobates catesbeianus</i>), fish, and crayfish for breeding (Nafis 2023).	None	None		SSC
<i>Taricha torosa</i>	Coast Range newt	Occurs in wet forests, oak forests, chaparral, and gently sloped grassland habitats up to 1,280 meters elevation (Nafis 2023).	None	None		SSC
Reptiles						
<i>Anniella pulchra</i>	Northern California legless lizard	Occurs in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks from sea level to around 5,900 feet (Nafis 2023).	None	None		SSC
<i>Gambelia sila</i>	Blunt-nosed leopard lizard	Semi-arid grasslands, alkali flats, and washes, preferring relatively flat topography and areas with an open vegetation canopy from 30 to 730 meters elevation (Nafis 2023).	Endangered	Endangered		FP
<i>Phrynosoma blainvillii</i>	Coast horned lizard	Inhabits open areas of sandy soil and low vegetation in valleys, foothills and semiarid mountains, grasslands, coniferous forests, woodlands, and chaparral from sea level to 8,000 ft. (2,438 m) (Nafis 2023).	None	None		SSC
<i>Arizona elegans occidentalis</i>	California glossy snake	Inhabits arid scrub, rocky washes, grasslands, chaparral from below sea level to around 2,200 meters (Nafis 2023).	None	None		SSC
<i>Masticophis flagellum ruddocki</i>	San Joaquin coachwhip	Occurs in open, dry, treeless areas with little or no cover, including valley grassland and saltbush scrub (Nafis 2023).	None	None		SSC
<i>Emys marmorata</i>	Western pond turtle	Found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches, with abundant vegetation, and either rocky or muddy bottoms, in woodland, forest, and grassland. In streams, prefers pools to shallower areas from sea level to around 6,696 ft. (2,041 m) but mostly below 4,980 ft. (1,371 m) (Nafis 2023).	None	None		SSC

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Birds						
<i>Buteo swainsoni</i>	Swainson's hawk	Migratory, breeds in California. Occurs in grassland habitats including agricultural fields and pastures, and roadsides where small rodents are abundant (Battistone 2023).	None	Threatened		
<i>Falco mexicanus</i>	Prairie falcon	Distributed from annual grasslands to alpine meadows, but associated primarily with perennial grasslands, savannahs, rangeland, some agricultural fields, and desert scrub areas (CWHR 2023).	None	None		WL
<i>Falco peregrinus anatum</i>	American peregrine falcon	Most often utilize habitats containing cliffs for breeding and almost always nest near water. Occur in open habitats for foraging. Many artificial habitats like towers, bridges and buildings are also utilized (USFWS 2023a).	Delisted	Delisted		FP
<i>Coturnicops noveboracensis</i>	Yellow rail	Shallow marshes, and wet meadows; in winter, drier fresh-water and brackish marshes, as well as dense, deep grass, and rice fields. Nests typically occur in shall marshes (USFWS 2023a).	None	None		SSC
<i>Agelaius tricolor</i>	Tricolored blackbird	Resident, colonial nesting and may occur in mixed flocks outside of breeding season. Occurs in marshes and wetlands with emergent vegetation and agricultural areas (USFWS 2019).	None	Threatened		SSC
<i>Toxostoma lecontei</i>	Le Conte's thrasher	Occurs primarily in open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats; also occurs in Joshua tree habitat with scattered shrubs (CWHR 2023).	None	None		SSC
<i>Vireo bellii pusillus</i>	Least Bell's vireo	Obligate riparian species that breeds in early successional, structurally diverse woodland habitats, often with <i>Baccharis salicifolia</i> or <i>Salix</i> , along waterways (USFWS 1998).	Endangered	Endangered		
<i>Athene cunicularia</i>	Burrowing owl	Resident of open, dry grassland, desert, and open shrub areas in pinyon-juniper woodland and ponderosa pine habitats. Nests and shelters in underground burrows, generally dug by another species. Also may use anthropogenic structures such as open pipes and culverts as burrows (CWHR 2023).	None	None		SSC
Mammals						

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Taxidea taxus</i>	American badger	Occurs in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils (CWHR 2023).	None	None		SSC
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Areas with sparse vegetation on gentle slopes in scrubland and annual grassland communities where friable soils suitable for denning are present, as well as anthropogenic communities, such as grazed lands, urban areas, oil and gas production fields (USFWS 2020).	Endangered	Threatened		
<i>Antrozous pallidus</i>	Pallid bat	Occur in low elevation (below 1,830 meters elevation) rocky arid deserts and canyonlands, shrub-steppe grasslands, karst formations, and higher elevation coniferous forests (above 2,100 meters) (WBWG 2023).	None	None		SSC
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	Occur in a wide range of habitat types up to 3,300 meters elevation. Habitat associations include coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types (WBWG 2023).	None	None		SSC
<i>Eumops perotis californicus</i>	Western mastiff bat	Occurs in a variety of habitats from desert scrub to chaparral to oak woodland and into the ponderosa pine belt and high elevation meadows of mixed conifer forests (WBWG 2023).	None	None		SSC
<i>Lasiurus cinereus</i>	Hoary bat	Occur in forested habitats with roosts usually at the edge of clearings (WBWG 2023).	None	None		
<i>Lasiurus frantzii</i>	Western red bat	Occur in a variety of habitats including riparian habitats such as willows, cottonwoods, and sycamores, shrubs, open fields, in orchards, and sometimes in urban areas (WBWG 2023).	None	None		SSC
<i>Myotis yumanensis</i>	Yuma myotis	Found in a wide variety of habitats ranging up to 3,300 meters elevation, but uncommon to rare above 2,560 meters. Optimal habitats are open forests and woodlands with sources of water over which to feed (CWHR 2023).	None	None		
<i>Ammospermophilus nelsoni</i>	Nelson's (=San Joaquin) antelope squirrel	Ground-dwelling. Inhabit arid grassland, shrubland, and alkali sink habitats of the San Joaquin Valley and adjacent foothills (Brown and Williams 2023a).	None	Threatened		

Table A-2: Special-status Species with Occurrence Records Located within 500 feet of the Proposed Trucking Route.

Scientific Name	Common Name	Habitat	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Dipodomys nitratoides brevinasus</i>	Short-nosed kangaroo rat	Inhabit grasslands with scattered shrubs and desert-shrub associations on powdery soils, such as sandy areas. They inhabit highly saline soils around Soda Lake on the Carrizo Plain, and less saline soils elsewhere (Brown and Williams 2023b).	None	None		SSC
<i>Onychomys torridus tularensis</i>	Tulare grasshopper mouse	Inhabit shrubland communities in hot, arid grassland and shrubland associations, including blue oak woodlands at 450 meters elevation, upper Sonoran sub-shrub scrub community, alkali sink and mesquite associations, and grasslands associations on the sloping margins of the San Joaquin Valley and Carrizo Plain region.	None	None		SSC
<i>Perognathus inornatus</i>	San Joaquin pocket mouse	Occurs in dry, open grasslands or scrub areas on fine-textured soils between 350 and 600 meters elevation in the Central and Salinas valleys (CWHR 2023).	None	None		

¹ Source: CDFW 2023a.

² Status Definitions

Rare Plant Ranks

- 1A.: Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B: Plants rare, threatened, or endangered in California and elsewhere.
- 2A.: Plants presumed extirpated in California but common elsewhere.
- 2B: Plants rare, threatened, or endangered in California but more common elsewhere.
- 3.: Review List: Plants about which more information is needed.
- 4.: Watch List: Plants of limited distribution.
 - .1: Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat).
 - .2: Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat).
 - .3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known).

CDFW

FP = Fully Protected WL = Watch List SSC = California Species of Special Concern

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Plants							

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Agrostis hooveri</i>	Hoover's bent grass	San Luis Obispo, Santa Barbara	Perennial herb	None	None	1B.2	
<i>Antirrhinum ovatum</i>	Oval-leaved snapdragon	San Luis Obispo	Annual herb	None	None	4.2	
<i>Arctostaphylos luciana</i>	Santa Lucia manzanita	San Luis Obispo	Perennial evergreen shrub	None	None	1B.2	
<i>Arctostaphylos pechoensis</i>	Pecho manzanita	San Luis Obispo	Perennial evergreen shrub	None	None	1B.2	
<i>Arctostaphylos pilosula</i>	Santa Margarita manzanita	San Luis Obispo	Perennial evergreen shrub	None	None	1B.2	
<i>Arctostaphylos purissima</i>	La Purisima manzanita	Santa Barbara	Perennial evergreen shrub	None	None	1B.1	
<i>Arctostaphylos refugioensis</i>	Refugio manzanita	Santa Barbara	Perennial evergreen shrub	None	None	1B.2	
<i>Arctostaphylos rudis</i>	Sand mesa manzanita	Santa Barbara, San Luis Obispo	Perennial evergreen shrub	None	None	1B.2	
<i>Arenaria paludicola</i>	Marsh sandwort	San Luis Obispo	Perennial stoloniferous herb	Endangered	Endangered	1B.1	
<i>Astragalus didymocarpus</i> var. <i>milesianus</i>	Miles' milk-vetch	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Atriplex coronata</i> var. <i>vallicola</i>	Lost Hills crownscale	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Calochortus obispoensis</i>	San Luis mariposa-lily	San Luis Obispo	Perennial bulbiferous herb	None	None	1B.2	
<i>Calochortus simulans</i>	La Panza mariposa-lily	San Luis Obispo	Perennial bulbiferous herb	None	None	1B.3	
<i>Calystegia subacaulis</i> ssp. <i>episcopalis</i>	Cambria morning-glory	San Luis Obispo	Perennial rhizomatous herb	None	None	4.2	
<i>Carex obispoensis</i>	San Luis Obispo sedge	San Luis Obispo	Perennial cespitose herb	None	None	1B.2	
<i>Castilleja densiflora</i> var. <i>obispoensis</i>	San Luis Obispo owl's-clover	San Luis Obispo	Annual herb (hemiparasitic)	None	None	1B.2	

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Caulanthus californicus</i>	California jewelflower	Fresno, Kern	Annual herb	Endangered	Endangered	1B.1	
<i>Caulanthus lemmonii</i>	Lemmon's jewelflower	San Luis Obispo, Kings	Annual herb	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>impressus</i>	Santa Barbara ceanothus	Santa Barbara	Perennial shrub	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>nipomensis</i>	Nipomo Mesa ceanothus	San Luis Obispo	Perennial shrub	None	None	1B.2	
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	San Luis Obispo	Annual herb	None	None	1B.1	
<i>Chlorogalum pomeridianum</i> var. <i>minus</i>	Dwarf soaproot	San Luis Obispo	Perennial bulbiferous herb	None	None	1B.2	
<i>Chorizanthe aphanantha</i>	Irish Hills spineflower	San Luis Obispo	Annual herb	None	None	1B.1	
<i>Chorizanthe breweri</i>	Brewer's spineflower	San Luis Obispo	Annual herb	None	None	1B.3	
<i>Chorizanthe rectispina</i>	Straight-awned spineflower	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	San Luis Obispo	Perennial herb	Endangered	Endangered	1B.2	
<i>Cirsium occidentale</i> var. <i>lucianum</i>	Cuesta Ridge thistle	San Luis Obispo	Perennial herb	None	None	1B.2	
<i>Cladium californicum</i>	California saw-grass	Santa Barbara	Perennial rhizomatous herb	None	None	2B.2	
<i>Clarkia speciosa</i> ssp. <i>immaculata</i>	Pismo clarkia	San Luis Obispo	Annual herb	Endangered	Rare	1B.1	
<i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	Seaside bird's-beak	Santa Barbara	Hemiparasitic annual herb	None	Endangered	1B.1	
<i>Deinandra halliana</i>	Hall's tarplant	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Delphinium parryi</i> ssp. <i>blochmaniae</i>	Dune larkspur	Santa Barbara, San Luis Obispo	Perennial herb	None	None	1B.2	
<i>Delphinium parryi</i> ssp. <i>eastwoodiae</i>	Eastwood's larkspur	San Luis Obispo	Perennial herb	None	None	1B.2	
<i>Delphinium recurvatum</i>	Recurved larkspur	Kings, Kern	Perennial herb	None	None	1B.2	
<i>Delphinium umbraculorum</i>	Umbrella larkspur	San Luis Obispo	Perennial herb	None	None	1B.3	
<i>Diplacus vandenbergensis</i>	Vandenberg monkeyflower	Santa Barbara	Annual herb	Endangered	None	1B.1	
<i>Dudleya abramsii</i> ssp. <i>bettinae</i>	Betty's dudleya	San Luis Obispo	Perennial herb	None	None	1B.2	
<i>Dudleya abramsii</i> ssp. <i>murina</i>	Mouse-gray dudleya	San Luis Obispo	Perennial herb	None	None	1B.3	

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>	Blochman's dudleya	San Luis Obispo	Perennial herb	None	None	1B.1	
<i>Eremalche parryi</i> ssp. <i>kernensis</i>	Kern mallow	San Luis Obispo	Annual herb	Endangered	None	1B.2	
<i>Eriastrum luteum</i>	Yellow-flowered eriastrum	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Erigeron blochmaniae</i>	Blochman's leafy daisy	San Luis Obispo	Perennial rhizomatous herb	None	None	1B.2	
<i>Eriodictyon altissimum</i>	Indian Knob mountainbalm	San Luis Obispo	Perennial evergreen shrub	Endangered	Endangered	1B.1	
<i>Eriodictyon capitatum</i>	Lompoc yerba santa	Santa Barbara	Perennial evergreen shrub	Endangered	Rare	1B.2	
<i>Eriogonum temblorense</i>	Temblor buckwheat	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Eryngium aristulatum</i> var. <i>hooveri</i>	Hoover's button-celery	San Luis Obispo	Annual/perennial herb	None	None	1B.1	
<i>Erythranthe serpentinicola</i>	Irish Hills monkeyflower	San Luis Obispo	Annual herb	None	None	1B.1	
<i>Fritillaria ojaiensis</i>	Ojai fritillary	San Luis Obispo	Perennial bulbiferous herb	None	None	1B.2	
<i>Horkelia cuneata</i> var. <i>puberula</i>	Mesa horkelia	San Luis Obispo, Santa Barbara	Perennial herb	None	None	1B.1	
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	San Luis Obispo	Perennial herb	None	None	1B.1	
<i>Layia heterotricha</i>	Pale-yellow layia	Santa Barbara, San Luis Obispo	Annual herb	None	None	1B.1	
<i>Layia jonesii</i>	Jones' layia	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Layia munzii</i>	Munz's tidy-tips	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	Santa Barbara	Annual herb	None	None	4.3	
<i>Lonicera subspicata</i> var. <i>subspicata</i>	Santa Barbara honeysuckle	Santa Barbara	Perennial evergreen shrub	None	None	1B.2	
<i>Madia radiata</i>	Showy golden madia	Kern, San Luis Obispo	Annual herb	None	None	1B.1	
<i>Monardella palmeri</i>	Palmer's monardella	San Luis Obispo	Perennial rhizomatous herb	None	None	1B.2	

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Monardella sinuata</i> ssp. <i>sinuata</i>	Southern curly-leaved monardella	Santa Barbara, San Luis Obispo	Annual herb	None	None	1B.2	
<i>Monardella undulata</i> ssp. <i>undulata</i>	San Luis Obispo monardella	Santa Barbara, San Luis Obispo	Perennial rhizomatous herb	None	None	1B.2	
<i>Monolopia congdonii</i>	San Joaquin woollythreads	Kings, Fresno	Annual herb	Endangered	None	1B.2	
<i>Nasturtium gambelii</i>	Gambel's water cress	Santa Barbara	Perennial rhizomatous herb	Endangered	Threatened	1B.1	
<i>Navarretia nigelliformis</i> ssp. <i>radians</i>	Shining navarretia	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Sanicula maritima</i>	Adobe sanicle	San Luis Obispo	Perennial herb	None	Rare	1B.1	
<i>Scrophularia atrata</i>	Black-flowered figwort	Santa Barbara, San Luis Obispo	Annual herb	None	None	1B.2	
<i>Senecio aphanactis</i>	Chaparral ragwort	Santa Barbara, San Luis Obispo	Annual herb	None	None	2B.2	
<i>Sidalcea hickmanii</i> ssp. <i>anomala</i>	Cuesta Pass checkerbloom	San Luis Obispo	Perennial herb	None	Rare	1B.2	
<i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	Most beautiful jewelflower	San Luis Obispo	Annual herb	None	None	1B.2	
<i>Stylocline masonii</i>	Mason's neststraw	San Luis Obispo	Annual herb	None	None	1B.1	
<i>Symphotrichum defoliatum</i>	San Bernardino aster	Santa Barbara	Perennial rhizomatous herb	None	None	1B.2	
<i>Trifolium hydrophilum</i>	Saline clover	San Luis Obispo	Annual herb	None	None	1B.2	
Natural Communities							
Central Foredunes	Central Foredunes	San Luis Obispo	Dune				
Central Maritime Chaparral	Central Maritime Chaparral	Santa Barbara	Scrub	None	None		
Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	San Luis Obispo	Marsh				
Northern Interior Cypress Forest	Northern Interior Cypress Forest	San Luis Obispo	Forest				
Serpentine Bunchgrass	Serpentine Bunchgrass	San Luis Obispo	Herbaceous				

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
Southern California Steelhead Stream	Southern California Steelhead Stream	Santa Barbara	Inland Waters				
Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream	Santa Barbara	Inland Waters				
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Santa Barbara	Riparian	None	None		
Invertebrates							
<i>Ablautus schlingerii</i>	Oso Flaco robber fly	San Luis Obispo	Insecta, Diptera	None	None		
<i>Atractelmis wawona</i>	Wawona riffle beetle	San Luis Obispo	Insecta, Coleoptera	None	None		
<i>Bombus caliginosus</i>	Obscure bumble bee	San Luis Obispo, Kern	Insecta, Hymenoptera	None	None		
<i>Bombus crotchii</i>	Crotch bumble bee	San Luis Obispo	Insecta, Hymenoptera	None	Candidate Endangered		
<i>Bombus occidentalis</i>	Western bumble bee	San Luis Obispo	Insecta, Hymenoptera	None	Candidate Endangered		
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	San Luis Obispo	Crustacea, Branchiopoda	Threatened	None		
<i>Coelus globosus</i>	globose dune beetle	San Luis Obispo	Insecta, Coleoptera	None	None		
<i>Danaus plexippus plexippus</i> , population 1	Monarch - California overwintering population	Santa Barbara, San Luis Obispo	Insecta, Lepidoptera	Candidate	None		
<i>Lytta hoppingi</i>	Hopping's blister beetle	Fresno	Insecta, Coleoptera	None	None		
<i>Lytta morrisoni</i>	Morrison's blister beetle	Fresno	Insecta, Coleoptera	None	None		
<i>Polyphylla nubila</i>	Atascadero June beetle	San Luis Obispo	Insecta, Coleoptera	None	None		
<i>Pyrgulopsis taylori</i>	San Luis Obispo pyrg	San Luis Obispo	Mollusca, Gastropoda	None	None		

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Trimerotropis occulens</i>	Lompoc grasshopper	Santa Barbara, San Luis Obispo	Insecta, Orthoptera	None	None		
Fish							
<i>Eucyclogobius newberryi</i>	Tidewater goby	San Luis Obispo	Gobiiformes	Endangered	None		
<i>Gasterosteus aculeatus williamsoni</i>	Unarmored threespine stickleback	Santa Barbara	Scorpaeniformes	Endangered	Endangered		FP
<i>Oncorhynchus mykiss irideus</i> , population 10	Steelhead - southern California DPS	Santa Barbara	Salmoniformes	Endangered	Candidate Endangered		
<i>Oncorhynchus mykiss irideus</i> , population 9	Steelhead - south-central California coast DPS	San Luis Obispo	Salmoniformes	Threatened	None		
Amphibians							
<i>Ambystoma californiense</i> , population 2	California tiger salamander - Santa Barbara County DPS	Santa Barbara	Urodela	Endangered	Threatened		WL
<i>Ambystoma californiense</i> , population 1	California tiger salamander - central California DPS	San Luis Obispo	Urodela	Threatened	Threatened		WL
<i>Batrachoseps minor</i>	Lesser slender salamander	San Luis Obispo	Urodela	None	None		SSC
<i>Rana boylei</i> , population 6	Foothill yellow-legged frog - south coast DPS	San Luis Obispo	Anura	Proposed Endangered	Endangered		
<i>Rana draytonii</i>	California red-legged frog	San Luis Obispo, Santa Barbara	Anura	Threatened	None		SSC
<i>Spea hammondi</i>	Western spadefoot	San Luis Obispo, Santa Barbara	Anura	None	None		SSC
<i>Taricha torosa</i>	Coast Range newt	San Luis Obispo	Anura	None	None		SSC
Reptiles							
<i>Anniella pulchra</i>	Northern California legless lizard	Santa Barbara, San Luis Obispo	Reptiles	None	None		SSC
<i>Arizona elegans occidentalis</i>	California glossy snake	San Luis Obispo, Fresno	Reptiles	None	None		SSC
<i>Emys marmorata</i>	Western pond turtle	Santa Barbara, San Luis Obispo	Reptiles	None	None		SSC
<i>Gambelia sila</i>	Blunt-nosed leopard lizard	Kings, Fresno	Reptiles	Endangered	Endangered		FP

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Masticophis flagellum ruddocki</i>	San Joaquin coachwhip	Kings, San Luis Obispo	Reptiles	None	None		SSC
<i>Phrynosoma blainvillii</i>	Coast horned lizard	Santa Barbara, San Luis Obispo	Reptiles	None	None		SSC
Birds							
<i>Agelaius tricolor</i>	Tricolored blackbird	Fresno, Kings	Passeriformes	None	Threatened		SSC
<i>Ammodramus savannarum</i>	Grasshopper sparrow	San Luis Obispo	Passeriformes	None	None		SSC
<i>Aquila chrysaetos</i>	Golden eagle	San Luis Obispo	Accipitriformes	None	None		FP; WL
<i>Athene cucularia</i>	Burrowing owl	San Luis Obispo	Strigiformes	None	None		SSC
<i>Buteo regalis</i>	Ferruginous hawk	San Luis Obispo	Accipitriformes	None	None		WL
<i>Buteo swainsoni</i>	Swainson's hawk	San Luis Obispo, Fresno, Kern	Accipitriformes	None	Threatened		
<i>Charadrius montanus</i>	Mountain plover	San Luis Obispo	Passeriformes	None	None		SSC
<i>Charadrius nivosus nivosus</i>	Western snowy plover	San Luis Obispo	Passeriformes	Threatened	None		SSC
<i>Coturnicops noveboracensis</i>	Yellow rail	San Luis Obispo	Gruiformes	None	None		SSC
<i>Falco mexicanus</i>	Prairie falcon	Kern, San Luis Obispo, Kings	Falconiformes	None	None		WL
<i>Falco peregrinus anatum</i>	American peregrine falcon	Santa Barbara	Falconiformes	Delisted	Delisted		FP
<i>Lanius ludovicianus</i>	Loggerhead shrike	San Luis Obispo	Passeriformes	None	None		SSC
<i>Toxostoma lecontei</i>	Le Conte's thrasher	Fresno	Passeriformes	None	None		SSC
<i>Vireo bellii pusillus</i>	Least Bell's vireo	San Luis Obispo	Passeriformes	Endangered	Endangered		
Mammals							
<i>Ammospermophilus nelsoni</i>	Nelson's (=San Joaquin) antelope squirrel	San Luis Obispo, Kern	Rodentia	None	Threatened		
<i>Antrozous pallidus</i>	Pallid bat	Santa Barbara, San Luis Obispo	Chiroptera	None	None		SSC
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	San Luis Obispo, Santa Barbara	Chiroptera	None	None		SSC
<i>Dipodomys ingens</i>	Giant kangaroo rat	San Luis Obispo	Rodentia	Endangered	Endangered		
<i>Dipodomys nitratoides brevinasus</i>	Short-nosed kangaroo rat	Fresno	Rodentia	None	None		SSC
<i>Eumops perotis californicus</i>	Western mastiff bat	San Luis Obispo	Chiroptera	None	None		SSC

Table A-3. Special-status Species with Occurrence Records within 1 Mile of the Proposed Trucking Route

Scientific Name	Common Name	County	Lifeform /Taxon	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW ^{1,2}
<i>Lasiurus cinereus</i>	Hoary bat	Santa Barbara	Chiroptera	None	None		
<i>Lasiurus frantzii</i>	Western red bat	Santa Barbara	Chiroptera	None	None		SSC
<i>Myotis yumanensis</i>	Yuma myotis	Santa Barbara	Chiroptera	None	None		
<i>Onychomys torridus tularensis</i>	Tulare grasshopper mouse	San Luis Obispo, Kings	Rodentia	None	None		SSC
<i>Perognathus inornatus</i>	San Joaquin pocket mouse	San Luis Obispo	Rodentia	None	None		
<i>Taxidea taxus</i>	American badger	San Luis Obispo, Santa Barbara, Kings	Carnivora	None	None		SSC
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	San Luis Obispo, Kings, Fresno	Carnivora	Endangered	Threatened		

¹ Source: CDFW 2023a.

² Status Definitions

Rare Plant Ranks

1A.: Plants presumed extirpated in California and either rare or extinct elsewhere.

1B: Plants rare, threatened, or endangered in California and elsewhere.

2A.: Plants presumed extirpated in California but common elsewhere.

2B: Plants rare, threatened, or endangered in California but more common elsewhere.

3.: Review List: Plants about which more information is needed.

4.: Watch List: Plants of limited distribution.

.1: Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat).

.2: Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat).

.3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known).

CDFW

FP = Fully Protected

WL = Watch List

SSC = California Species of Special Concern

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
Plants						
<i>Ancistrocarphus keilii</i>	Santa Ynez groundstar	Santa Barbara	None	None	1B.1	
<i>Agrostis hooveri</i>	Hoover's bent grass	San Luis Obispo	None	None	1B.2	
<i>Antirrhinum ovatum</i>	Oval-leaved snapdragon	San Luis Obispo	None	None	4.2	
<i>Arctostaphylos crustacea</i> ssp. <i>eastwoodiana</i>	Eastwood's brittle-leaf manzanita	Santa Barbara	None	None	1B.1	
<i>Arctostaphylos luciana</i>	Santa Lucia manzanita	San Luis Obispo	None	None	1B.2	
<i>Arctostaphylos osoensis</i>	Oso manzanita	San Luis Obispo	None	None	1B.2	
<i>Arctostaphylos pechoensis</i>	Pecho manzanita	San Luis Obispo	None	None	1B.2	
<i>Arctostaphylos pilosula</i>	Santa Margarita manzanita	San Luis Obispo	None	None	1B.2	
<i>Arctostaphylos purissima</i>	La Purisima manzanita	Santa Barbara	None	None	1B.1	
<i>Arctostaphylos refugioensis</i>	Refugio manzanita	Santa Barbara	None	None	1B.2	
<i>Arctostaphylos rudis</i>	Sand mesa manzanita	Santa Barbara	None	None	1B.2	
<i>Arenaria paludicola</i>	Marsh sandwort	San Luis Obispo	Endangered	Endangered	1B.1	
<i>Astragalus didymocarpus</i> var. <i>milesianus</i>	Miles' milk-vetch	San Luis Obispo	None	None	1B.2	
<i>Atriplex coronata</i> var. <i>vallicola</i>	Lost Hills crownscale	San Luis Obispo	None	None	1B.2	
<i>Atriplex depressa</i>	Brittlescale	Fresno	None	None	1B.2	
<i>Calochortus obispoensis</i>	San Luis mariposa-lily	San Luis Obispo	None	None	1B.2	
<i>Calochortus simulans</i>	La Panza mariposa-lily	San Luis Obispo	None	None	1B.3	
<i>Calystegia subacaulis</i> ssp. <i>episcopalis</i>	Cambria morning-glory	San Luis Obispo	None	None	4.2	
<i>Camissoniopsis hardhamiae</i>	Hardham's evening-primrose	San Luis Obispo	None	None	1B.2	
<i>Carex obispoensis</i>	San Luis Obispo sedge	San Luis Obispo	None	None	1B.2	
<i>Castilleja densiflora</i> var. <i>obispoensis</i>	San Luis Obispo owl's-clover	San Luis Obispo	None	None	1B.2	
<i>Caulanthus californicus</i>	California jewelflower	Fresno	Endangered	Endangered	1B.1	
<i>Caulanthus lemmonii</i>	Lemmon's jewelflower	San Luis Obispo	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>impressus</i>	Santa Barbara ceanothus	Santa Barbara	None	None	1B.2	
<i>Ceanothus impressus</i> var. <i>nipomensis</i>	Nipomo Mesa ceanothus	San Luis Obispo	None	None	1B.2	
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	San Luis Obispo	None	None	1B.1	
<i>Chenopodium littoreum</i>	Coastal goosefoot	San Luis Obispo	None	None	1B.2	

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Chlorogalum pomeridianum</i> var. <i>minus</i>	Dwarf soaproot	San Luis Obispo	None	None	1B.2	
<i>Chorizanthe aphanantha</i>	Irish Hills spineflower	San Luis Obispo	None	None	1B.1	
<i>Chorizanthe breweri</i>	Brewer's spineflower	San Luis Obispo	None	None	1B.3	
<i>Chorizanthe rectispina</i>	Straight-awned spineflower	San Luis Obispo	None	None	1B.2	
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Bolander's water-hemlock	Santa Barbara	None	None	2B.1	
<i>Cirsium fontinale</i> var. <i>obispoense</i>	Chorro Creek bog thistle	San Luis Obispo	Endangered	Endangered	1B.2	
<i>Cirsium occidentale</i> var. <i>lucianum</i>	Cuesta Ridge thistle	San Luis Obispo	None	None	1B.2	
<i>Cirsium scariosum</i> var. <i>loncholepis</i>	La Graciosa thistle	Santa Barbara	Endangered	Threatened	1B.1	
<i>Cladium californicum</i>	California saw-grass	San Luis Obispo	None	None	2B.2	
<i>Clarkia speciosa</i> ssp. <i>immaculata</i>	Pismo clarkia	San Luis Obispo	Endangered	Rare	1B.1	
<i>Cordylanthus rigidus</i> ssp. <i>littoralis</i>	Seaside bird's-beak	Santa Barbara	None	Endangered	1B.1	
<i>Deinandra halliana</i>	Hall's tarplant	San Luis Obispo	None	None	1B.2	
<i>Delphinium parryi</i> ssp. <i>blochmaniae</i>	Dune larkspur	Santa Barbara	None	None	1B.2	
<i>Delphinium parryi</i> ssp. <i>eastwoodiae</i>	Eastwood's larkspur	San Luis Obispo	None	None	1B.2	
<i>Delphinium recurvatum</i>	Recurved larkspur	Kings	None	None	1B.2	
<i>Delphinium umbraculorum</i>	Umbrella larkspur	San Luis Obispo	None	None	1B.3	
<i>Diplacus vandenbergensis</i>	Vandenberg monkeyflower	Santa Barbara	Endangered	None	1B.1	
<i>Dudleya abramsii</i> ssp. <i>bettinae</i>	Betty's dudleya	San Luis Obispo	None	None	1B.2	
<i>Dudleya abramsii</i> ssp. <i>murina</i>	Mouse-gray dudleya	San Luis Obispo	None	None	1B.3	
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>	Blochman's dudleya	San Luis Obispo	None	None	1B.1	
<i>Eremalche parryi</i> ssp. <i>kernensis</i>	Kern mallow	Kings	Endangered	None	1B.2	
<i>Eriastrum hooveri</i>	Hoover's eriastrum	Fresno	Delisted	None	4.2	
<i>Eriastrum luteum</i>	Yellow-flowered eriastrum	San Luis Obispo	None	None	1B.2	
<i>Erigeron blochmaniae</i>	Blochman's leafy daisy	San Luis Obispo	None	None	1B.2	
<i>Eriodictyon altissimum</i>	Indian Knob mountainbalm	San Luis Obispo	Endangered	Endangered	1B.1	
<i>Eriodictyon capitatum</i>	Lompoc yerba santa	Santa Barbara	Endangered	Rare	1B.2	
<i>Eriogonum temblorense</i>	Temblor buckwheat	San Luis Obispo	None	None	1B.2	
<i>Eryngium aristulatum</i> var. <i>hooveri</i>	Hoover's button-celery	San Luis Obispo	None	None	1B.1	

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Erythranthe serpentinicola</i>	Irish Hills monkeyflower	San Luis Obispo	None	None	1B.1	
<i>Fritillaria ojaiensis</i>	Ojai fritillary	San Luis Obispo	None	None	1B.2	
<i>Horkelia cuneata</i> var. <i>puberula</i>	Mesa horkelia	Santa Barbara	None	None	1B.1	
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	Santa Barbara	None	None	1B.1	
<i>Juncus luciensis</i>	Santa Lucia dwarf rush	San Luis Obispo	None	None	1B.2	
<i>Lasthenia chrysantha</i>	Alkali-sink goldfields	Fresno	None	None	1B.1	
<i>Layia heterotricha</i>	Pale-yellow layia	Santa Barbara	None	None	1B.1	
<i>Layia jonesii</i>	Jones' layia	San Luis Obispo	None	None	1B.2	
<i>Layia munzii</i>	Munz's tidy-tips	San Luis Obispo	None	None	1B.2	
<i>Lepidium jaredii</i> ssp. <i>jaredii</i>	Jared's pepper-grass	San Luis Obispo	None	None	1B.2	
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	Santa Barbara	None	None	4.3	
<i>Lonicera subspicata</i> var. <i>subspicata</i>	Santa Barbara honeysuckle	Santa Barbara	None	None	1B.2	
<i>Lupinus ludovicianus</i>	San Luis Obispo County lupine	San Luis Obispo	None	None	1B.2	
<i>Lupinus nipomensis</i>	Nipomo Mesa lupine	San Luis Obispo	Endangered	Endangered	1B.1	
<i>Madia radiata</i>	Showy golden madia	Kings	None	None	1B.1	
<i>Malacothamnus gracilis</i>	Slender bush-mallow	San Luis Obispo	None	None	1B.1	
<i>Monardella palmeri</i>	Palmer's monardella	San Luis Obispo	None	None	1B.2	
<i>Monardella sinuata</i> ssp. <i>sinuata</i>	Southern curly-leaved monardella	Santa Barbara	None	None	1B.2	
<i>Monardella undulata</i> ssp. <i>crispa</i>	Crisp monardella	San Luis Obispo	None	None	1B.2	
<i>Monardella undulata</i> ssp. <i>undulata</i>	San Luis Obispo monardella	Santa Barbara	None	None	1B.2	
<i>Monolopia congdonii</i>	San Joaquin woollythreads	Fresno	Endangered	None	1B.2	
<i>Monolopia gracilens</i>	Woodland woollythreads	San Luis Obispo	None	None	1B.2	
<i>Muhlenbergia utilis</i>	Aparejo grass	San Luis Obispo	None	None	2B.2	
<i>Nasturtium gambelii</i>	Gambel's water cress	Santa Barbara	Endangered	Threatened	1B.1	
<i>Navarretia nigelliformis</i> ssp. <i>radians</i>	Shining navarretia	San Luis Obispo	None	None	1B.2	
<i>Nemacaulis denudata</i> var. <i>denudata</i>	Coast woolly-heads	San Luis Obispo	None	None	1B.2	
<i>Plagiobothrys uncinatus</i>	Hooked popcornflower	San Luis Obispo	None	None	1B.2	
<i>Puccinellia simplex</i>	California alkali grass	San Luis Obispo	None	None	1B.2	
<i>Sanicula maritima</i>	Adobe sanicle	San Luis Obispo	None	Rare	1B.1	
<i>Scrophularia atrata</i>	Black-flowered figwort	Santa Barbara	None	None	1B.2	
<i>Senecio aphanactis</i>	Chaparral ragwort	Santa Barbara	None	None	2B.2	

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Sidalcea hickmanii</i> <i>ssp. anomala</i>	Cuesta Pass checkerbloom	San Luis Obispo	None	Rare	1B.2	
<i>Streptanthus albidus</i> <i>ssp. peramoenus</i>	Most beautiful jewelflower	San Luis Obispo	None	None	1B.2	
<i>Stylocline masonii</i>	Mason's neststraw	San Luis Obispo	None	None	1B.1	
<i>Symphotrichum defoliatum</i>	San Bernardino aster	San Luis Obispo	None	None	1B.2	
<i>Trifolium hydrophilum</i>	Saline clover	San Luis Obispo	None	None	1B.2	
<i>Tropidocarpum californicum</i>	Kings gold	Kings	None	None	1B.1	
<i>Tropidocarpum capparideum</i>	Caper-fruited tropidocarpum	San Luis Obispo	None	None	1B.1	
Natural Communities						
Central Dune Scrub	Central Dune Scrub	Santa Barbara	None	None		
Central Coast Arroyo Willow Riparian Forest	Central Coast Arroyo Willow Riparian Forest	Santa Barbara	None	None		
Central Foredunes	Central Foredunes	San Luis Obispo	None	None		
Central Maritime Chaparral	Central Maritime Chaparral	San Luis Obispo	None	None		
Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	San Luis Obispo	None	None		
Great Valley Mesquite Scrub	Great Valley Mesquite Scrub	Fresno	None	None		
Northern Interior Cypress Forest	Northern Interior Cypress Forest	San Luis Obispo	None	None		
Serpentine Bunchgrass	Serpentine Bunchgrass	San Luis Obispo	None	None		
Southern California Steelhead Stream	Southern California Steelhead Stream	Santa Barbara	None	None		
Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream	Santa Barbara	None	None		
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Santa Barbara	None	None		
Southern Vernal Pool	Southern Vernal Pool	Santa Barbara	None	None		
Southern Willow Scrub	Southern Willow Scrub	Santa Barbara	None	None		
Valley Sink Scrub	Valley Sink Scrub	San Luis Obispo	None	None		
Invertebrates						
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	San Luis Obispo	Threatened	None		
<i>Ablautus schlingeri</i>	Oso Flaco robber fly	San Luis Obispo	None	None		
<i>Areniscythris brachypteris</i>	Oso Flaco flightless moth	San Luis Obispo	None	None		
<i>Atractelmis wawona</i>	Wawona riffle beetle	San Luis Obispo	None	None		
<i>Bombus caliginosus</i>	Obscure bumble bee	San Luis Obispo	None	None		
<i>Bombus crotchii</i>	Crotch bumble bee	San Luis Obispo	None	Candidate Endangered		
<i>Bombus occidentalis</i>	Western bumble bee	San Luis Obispo	None	Candidate Endangered		

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Coelus globosus</i>	Globose dune beetle	San Luis Obispo	None	None		
<i>Coelus gracilis</i>	San Joaquin dune beetle	Fresno	None	None		
<i>Danaus plexippus plexippus</i> , population 1	Monarch - California overwintering population	San Luis Obispo	Candidate	None		
<i>Eucerceris ruficeps</i>	Redheaded sphecid wasp	Fresno	None	None		
<i>Icaricia icarioides moroensis</i>	Morro Bay blue butterfly	Santa Barbara	None	None		
<i>Lichnanthe albipilosa</i>	White sand bear scarab beetle	San Luis Obispo	None	None		
<i>Linderiella occidentalis</i>	California linderiella	San Luis Obispo	None	None		
<i>Lytta hoppingi</i>	Hopping's blister beetle	Fresno	None	None		
<i>Lytta morrisoni</i>	Morrison's blister beetle	Fresno	None	None		
<i>Polyphylla nubila</i>	Atascadero June beetle	San Luis Obispo	None	None		
<i>Pyrgulopsis taylori</i>	San Luis Obispo pyrg	San Luis Obispo	None	None		
<i>Trimerotropis occulens</i>	Lompoc grasshopper	Santa Barbara	None	None		
Fish						
<i>Oncorhynchus mykiss irideus</i> , population 9	steelhead - south-central California coast DPS	San Luis Obispo	Threatened	None		
<i>Eucyclogobius newberryi</i>	tidewater goby	San Luis Obispo	Endangered	None		
<i>Gasterosteus aculeatus williamsoni</i>	unarmored threespine stickleback	Santa Barbara	Endangered	Endangered		FP
<i>Oncorhynchus mykiss irideus</i> , population 10	steelhead - southern California DPS	Santa Barbara	Endangered	Candidate Endangered		
Amphibians						
<i>Ambystoma californiense</i> , population 1	California tiger salamander - central California DPS	San Luis Obispo	Threatened	Threatened		WL
<i>Ambystoma californiense</i> , population 2	California tiger salamander - Santa Barbara County DPS	Santa Barbara	Endangered	Threatened		WL
<i>Batrachoseps minor</i>	Lesser slender salamander	San Luis Obispo	None	None		SSC
<i>Rana boylei</i> , population 4	Foothill yellow-legged frog - central coast DPS	Fresno	Proposed Threatened	Endangered		
<i>Rana boylei</i> , population 6	Foothill yellow-legged frog - south coast DPS	San Luis Obispo	Proposed Endangered	Endangered		
<i>Rana draytonii</i>	California red-legged frog	San Luis Obispo	Threatened	None		SSC
<i>Spea hammondi</i>	Western spadefoot	San Luis Obispo	None	None		SSC
<i>Taricha torosa</i>	Coast Range newt	San Luis Obispo	None	None		SSC
Reptiles						

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Arizona elegans occidentalis</i>	California glossy snake	San Luis Obispo	None	None		SSC
<i>Anniella alexanderiae</i>	Temblor legless lizard	Fresno	None	Candidate Endangered		SSC
<i>Anniella pulchra</i>	Northern California legless lizard	Santa Barbara	None	None		SSC
<i>Anniella</i> spp.	California legless lizard	Fresno	None	None		SSC
<i>Emys marmorata</i>	Western pond turtle	San Luis Obispo	None	None		SSC
<i>Gambelia sila</i>	Blunt-nosed leopard lizard	Fresno	Endangered	Endangered		FP
<i>Masticophis flagellum ruddocki</i>	San Joaquin coachwhip	Fresno	None	None		SSC
<i>Phrynosoma blainvillii</i>	Coast horned lizard	Santa Barbara	None	None		SSC
<i>Salvadora hexalepis virgultea</i>	Coast patch-nosed snake	Santa Barbara	None	None		SSC
<i>Thamnophis hammondi</i>	Two-striped gartersnake	Santa Barbara	None	None		SSC
Birds						
<i>Buteo swainsoni</i>	Swainson's hawk	San Luis Obispo	None	Threatened		
<i>Accipiter striatus</i>	Sharp-shinned hawk	San Luis Obispo	None	None		WL
<i>Agelaius tricolor</i>	Tricolored blackbird	Fresno	None	Threatened		SSC
<i>Ammodramus savannarum</i>	Grasshopper sparrow	San Luis Obispo	None	None		SSC
<i>Aquila chrysaetos</i>	Golden eagle	San Luis Obispo	None	None		FP; WL
<i>Ardea herodias</i>	Great blue heron	San Luis Obispo	None	None		
<i>Asio otus</i>	Long-eared owl	Fresno	None	None		SSC
<i>Athene cunicularia</i>	Burrowing owl	San Luis Obispo	None	None		SSC
<i>Buteo regalis</i>	Ferruginous hawk	San Luis Obispo	None	None		WL
<i>Charadrius montanus</i>	Mountain plover	San Luis Obispo	None	None		SSC
<i>Charadrius nivosus nivosus</i>	Western snowy plover	San Luis Obispo	Threatened	None		SSC
<i>Coturnicops noveboracensis</i>	Yellow rail	San Luis Obispo	None	None		SSC
<i>Elanus leucurus</i>	White-tailed kite	San Luis Obispo	None	None		FP
<i>Eremophila alpestris actia</i>	California horned lark	San Luis Obispo	None	None		WL
<i>Falco columbarius</i>	Merlin	San Luis Obispo	None	None		WL
<i>Falco mexicanus</i>	Prairie falcon	Kern	None	None		WL
<i>Falco peregrinus anatum</i>	American peregrine falcon	Santa Barbara	Delisted	Delisted		FP
<i>Lanius ludovicianus</i>	Loggerhead shrike	San Luis Obispo	None	None		SSC
<i>Laterallus jamaicensis coturniculus</i>	California black rail	San Luis Obispo	None	Threatened		FP
<i>Progne subis</i>	Purple martin	San Luis Obispo	None	None		SSC
<i>Sternula antillarum browni</i>	California least tern	San Luis Obispo	Endangered	Endangered		FP
<i>Toxostoma lecontei</i>	Le Conte's thrasher	Fresno	None	None		SSC
Mammals						

Table A-4: Special-status Species with Occurrence Records within 5 Miles of the Proposed Trucking Route.

Scientific Name	Common Name	County	ESA Status ¹	CESA Status ¹	Rare Plant Rank ^{1,2}	CDFW Status ^{1,2}
<i>Ammospermophilus nelsoni</i>	Nelson's (=San Joaquin) antelope squirrel	Fresno	None	Threatened		
<i>Antrozous pallidus</i>	Pallid bat	Santa Barbara	None	None		SSC
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	Santa Barbara	None	None		SSC
<i>Dipodomys ingens</i>	Giant kangaroo rat	San Luis Obispo	Endangered	Endangered		
<i>Dipodomys nitratooides brevinasus</i>	Short-nosed kangaroo rat	Fresno	None	None		SSC
<i>Dipodomys nitratooides nitratooides</i>	Tipton kangaroo rat	Kings	Endangered	Endangered		
<i>Eumops perotis californicus</i>	Western mastiff bat	Fresno	None	None		SSC
<i>Lasionycteris noctivagans</i>	Silver-haired bat	Santa Barbara	None	None		
<i>Lasiurus cinereus</i>	Hoary bat	Santa Barbara	None	None		
<i>Lasiurus frantzii</i>	Western red bat	Santa Barbara	None	None		SSC
<i>Myotis yumanensis</i>	Yuma myotis	Santa Barbara	None	None		
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	Santa Barbara	None	None		SSC
<i>Onychomys torridus tularensis</i>	Tulare grasshopper mouse	Kern	None	None		SSC
<i>Perognathus inornatus</i>	San Joaquin pocket mouse	Kings	None	None		
<i>Perognathus inornatus psammophilus</i>	Salinas pocket mouse	San Luis Obispo	None	None		SSC
<i>Taxidea taxus</i>	American badger	San Luis Obispo	None	None		SSC
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	San Luis Obispo	Endangered	Threatened		

¹ Source: CDFW 2023a.

² Status Definitions

Rare Plant Ranks

- 1A.: Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B: Plants rare, threatened, or endangered in California and elsewhere.
- 2A.: Plants presumed extirpated in California but common elsewhere.
- 2B: Plants rare, threatened, or endangered in California but more common elsewhere.
- 3.: Review List: Plants about which more information is needed.
- 4.: Watch List: Plants of limited distribution.
 - .1: Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat).
 - .2: Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat).
 - .3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known).

CDFW

FP = Fully Protected

WL = Watch List

SSC = California Species of Special Concern

APPENDIX B
Map Book