



Memorandum

Date: July 19, 2021

To: Konnie Dobрева, EPD Solutions, Inc.

From: Juan J. Hernandez

Subject: 2020/2021 Biological Assessment Update for Francis Avenue Residential Development Project located in San Bernardino County, California

Pursuant to your request, Hernandez Environmental Services (HES) conducted a biological assessment to document existing biological conditions associated with development of the Francis Avenue Residential Development Project site located at 4570 Francis Avenue in unincorporated San Bernardino County, California. The proposed Francis Avenue Residential Development Project would result in the construction of a residential development and associated infrastructure on the entire site.

Project Location

The Francis Avenue Residential Development Project site encompasses an approximate 13.35-acre area generally located north of the intersection of Francis Avenue and Yorba Avenue within unincorporated San Bernardino County (Figure 1). Specifically, the site is located in Township 1 South, Range 8 West, Section 34 within the *Ontario* United States Geological Survey (USGS) 7.5' topographic quadrangle map (Figure 2). The project site is developed and disturbed by concrete pads and evidence of previous agricultural use. The site is relatively flat with an elevation of approximately 850 feet above mean sea level (amsl). A single soil type, Tujunga loamy sand, occurs on the site. The project site is surrounded in all directions by residential land uses.

Background Information

A General Biological Resources Assessment was prepared for the project by Psomas in July of 2016 (Appendix D). According to the previous study, the project site consists of developed and disturbed areas. The developed areas consist of roofed animal pens, concrete pads, and a storage building. The disturbed areas consist of those areas with no concrete or pavement, exhibiting bare soil or sparse vegetation subject to vegetation management. The disturbed vegetated areas are dominated by non-native annual grasses and herbs such as ripgut brome (*Bromus diandrus*), spotted spurge (*Chamaesyce maculata*), Bermuda grass (*Cynodon dactylon*), Canadian horseweed (*Erigeron canadensis*), horehound (*Marrubium vulgare*), and Russian thistle (*Salsola tragus*). The only native species observed onsite consisted of jimsonweed (*Datura wrightii*), velvet ash (*Fraxinus velutina*), and Northern California black walnut (*Juglans hindsii*). The previously prepared study determined that no potentially suitable habitat was observed on

the site for any state or federally listed plant species or animal species. Further, it was determined that no jurisdictional streambed or wetland resources occur on the site.

The General Biological Resources Assessment prepared in 2016 also included a Phase II burrowing owl (*Athene cunicularia*) habitat assessment following protocols approved by the CDFW (2012). The habitat assessment determined that although small patches of vacant lots with weedy vegetation exist in the immediate vicinity of the project site, there is not sufficient open space to support roosting or nesting. The consistent high level of human activity and presence of domestic goats on the site are additional factors in preventing burrowing owls from using the site for roosting or nesting. Therefore, the site is not considered potentially suitable habitat for the burrowing owl and further surveys were not recommended.

The 2016 General Biological Resources Assessment prepared for the project the trees scattered throughout the project site, consisting of tree of heaven (*Ailanthus altissima*), blue gum (*Eucalyptus globulus*), cider gum (*Eucalyptus gunnii*), velvet ash (*Fraxinus velutina*), Northern California walnut (*Juglans hindsii*), avocado (*Persea americana*), Canary Island date palm (*Phoenix canariensis*), Peruvian peppertree (*Schinus molle*), queen palm (*Syagrus romanzoffiana*), and Mexican fan palm (*Washingtonia robusta*), do provide potentially suitable habitat for nesting birds. In addition, the removal of these trees may require a tree removal permit be acquired. Therefore, the following mitigation measures were recommended:

1. The Project Applicant shall comply with Chapter 88.01 Plant Protection and Management prior to removing any trees located on the Project site.
2. Because the various trees on the site provide nesting opportunities for birds, vegetation removal activities should be planned during the non-nesting season (generally September 16–January 31) to avoid impacts to nesting birds. If vegetation removal is planned during the nesting season, a qualified Biologist shall perform a nest survey to determine if impacts to active nests would occur. The monitoring biologist would provide guidance to the applicant to keep Project site activities in compliance with State and federal laws protecting nesting bird species.

On April 1, 2019, HES conducted an Updated Biological Assessment of the approximate 13.35-acre project site (Appendix D). The 2019 Updated Biological Assessment found that the site conditions had not changed from those identified in the General Biological Resources Assessment prepared for the project by Psomas in July of 2016.

Results

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. The *Ontario 7.5'* USGS topographic quadrangle and eight surrounding quadrangles were used to identify sensitive species in the California Natural Diversity Data Base (CNDDB). Additional resources reviewed during the literature search included the United States Fish and Wildlife

(USFWS) Endangered Species Lists, and the California Native Plant Society's (CNPS) Rare plant lists to obtain species information for the project area.

On November 3, 2020 and July 13, 2021, HES conducted a field survey of the approximate 13.35-acre project site. The purpose of the field surveys was to document the existing habitat conditions. Linear transects spaced approximately 50 to 100 feet apart were walked across the project site for 100 percent coverage. All species observed were recorded. Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, and any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

The Francis Avenue Residential Development Project site consists of a mix of developed areas and disturbed vegetated areas. Developed areas on the project site consist of concrete pads and evidence of previous agricultural use. The roofed animal pens and storage building referenced by the 2016 General Biological Resources Assessment have been removed from the site. Disturbed vegetated areas are dominated by non-native annual grasses and herbs, including ripgut brome, spotted spurge, Bermuda grass, Canadian horseweed, horehound, and Russian thistle consistent with the previously prepared General Biological Resources Assessment. Scattered trees consisting of tree of heaven, blue gum eucalyptus, cider gum eucalyptus, velvet ash, Northern California walnut, avocado, Canary Island date palm, Peruvian peppertree, queen palm, and Mexican fan palm are also present throughout the site, as described by the previously prepared General Biological Resources Assessment. The project site appears to be regularly maintained for weed abatement purposes.

General wildlife species observed during the field survey include western fence lizard (*Sceloporus occidentalis*), mourning dove (*Zenaida macroura*), Cassin's kingbird (*Tyrannus vociferans*), common raven (*Corvus corax*), hummingbird sp. (*Trochilidae sp.*), northern mockingbird (*Mimus polyglottos*), house sparrow (*Passer domesticus*), house finch (*Haemorhous mexicanus*), white-crowned sparrow (*Zonotrichia leucophrys*), song sparrow (*Melospiza melodia*), Say's phoebe (*Sayornis saya*), house cat (*Felis catus*), and California ground squirrel (*Otospermophilus beecheyi*).

A total of 53 sensitive species of plants and 67 sensitive species of animals have the potential to occur on or within the vicinity of the project area (Appendix B). These include those species listed or candidates for listing by the USFWS, California Department of Fish and Wildlife (CDFW) and CNPS. All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within Appendix B of this report. No sensitive plant or wildlife species were observed during the field survey. The site does not contain suitable habitat for sensitive species of plants or wildlife with the potential to occur on or within the vicinity of the project area. Therefore, the development of the project site would not result in a substantial adverse effect, either directly or through habitat modification, on any plant or wildlife species identified as a candidate,

sensitive or special status species in local or regional plans, policies, or regulation or by the CDFW or USFWS.

A habitat assessment for burrowing owl was conducted on July 13, 2021 in accordance with the *Staff Report on Burrowing Owl Mitigation* (2012). The BUOW survey involved walking through potentially suitable habitat within the project area and adjoining areas within 150-meters (i.e., areas that will be directly or indirectly impacted by the project). Although evidence of ground squirrels is present within the project area, no suitable burrows or burrowing owl sign were observed within the project site during the field surveys. The project site is developed and disturbed by concrete pads and evidence of past agricultural use. The disturbed, vegetated areas are regularly maintained for weed abatement purposes. The site is surrounded by busy roads and urban uses. Due to the high level of disturbance and lack of suitable burrows on the site, the habitat assessment resulted in the finding that there is no habitat for burrowing owl present on the project site.

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. Scattered trees are present throughout the project site that have the potential to provide suitable habitat for nesting birds. Potential impacts to nesting birds may occur if ground disturbing activities or vegetation removal occur during the bird nesting season of February 1 through September 15. Compliance with the Migratory Bird Treaty Act will ensure that potential impacts to nesting birds are less than significant.

Based upon the results of the field surveys, the findings have not changed from those identified in the 2016 General Biological Resources Assessment or 2019 Updated Biological Assessment prepared for the project. Therefore, we concur with the findings and conclusions of the previous studies.

If you have any questions about this report, please feel free to contact me at (909) 772-9009 with any further questions.

Enclosures:

Figure 1 – Location Map

Figure 2 – Vicinity Map

Appendix A – Species Observed

Appendix B – Species Presence/Absence List

Appendix C – Site Photographs

Appendix D – Previous Biological Studies

FIGURES



Figure 1
 Location Map
 Francis Avenue Residential Development
 San Bernardino County, California

Legend

 Project Site Boundary



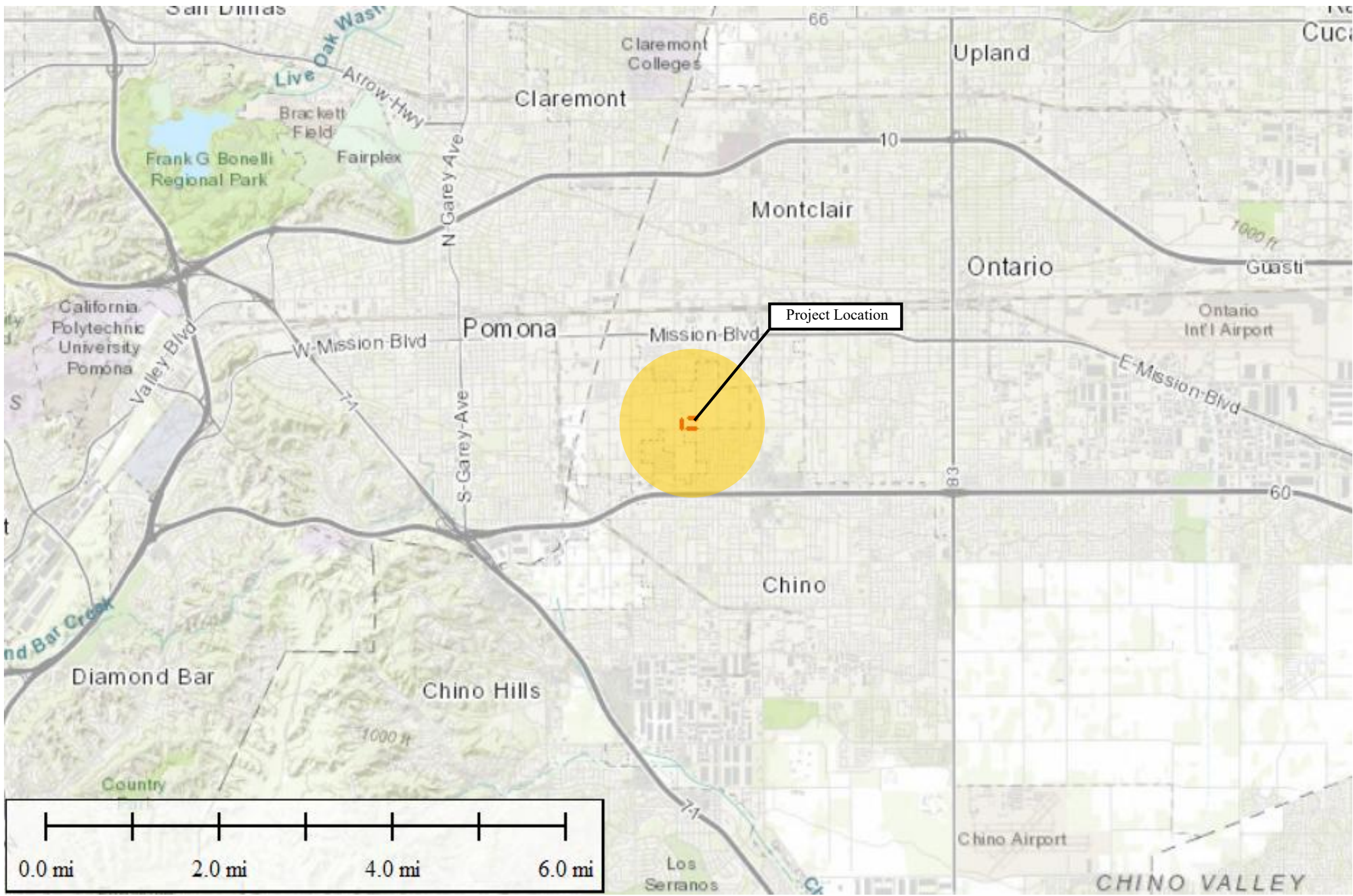



Figure 2
 Vicinity Map
 Francis Avenue Residential Development
 San Bernardino County, California

Legend

 Project Site Boundary



APPENDIX A

Species List

Plant List

| | |
|------------------------------|----------------------------------|
| <i>Acmispon americanus</i> | American bird's foot trefoil |
| <i>Agave americana</i> | American century plant |
| <i>Ailanthus altissima</i> | Tree of heaven |
| <i>Ambrosia acanthicarpa</i> | Flat-spine ragweed |
| <i>Bromus diandrus</i> | Ripgut brome |
| <i>Chamaesyce maculata</i> | spotted spurge |
| <i>Cynodon dactylon</i> | Bermuda grass |
| <i>Datura wrightii</i> | Jimsonweed |
| <i>Erigeron canadensis</i> | Canadian horseweed |
| <i>Eucalyptus globulus</i> | Blue gum eucalyptus |
| <i>Eucalyptus gunnii</i> | Cider gum eucalyptus |
| <i>Fraxinus velutina</i> | Velvet ash |
| <i>Juglans hindsii</i> | Northern California black walnut |
| <i>Marrubium vulgare</i> | Horehound |
| <i>Persea americana</i> | Avocado |
| <i>Phoenix canariensis</i> | Canary Island date palm |
| <i>Nicotiana glauca</i> | Tree tobacco |
| <i>Salsola tragus</i> | Russian thistle |
| <i>Schinus molle</i> | Peruvian peppertree |
| <i>Syagrus romanzoffiana</i> | Queen palm |
| <i>Verbesina encelioides</i> | Golden crownbeard |
| <i>Washingtonia robusta</i> | Mexican fan palm |

Animal List

Corvus corax

Common raven

Felis catus

House cat

Haemorhous mexicanus

House finch

Melospiza melodia

Song sparrow

Mimus polyglottos

Northern mockingbird

Otospermophilus beecheyi

California ground squirrel

Passer domesticus

House sparrow

Sayornis saya

Say's phoebe

Sceloporus occidentalis

Western fence lizard

Trochilidae sp.

Hummingbird sp.

Tyrannus vociferans

Cassin's kingbird

Zenaida macroura

Mourning dove

Zonotrichia leucophrys

White-crowned sparrow

APPENDIX B

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|------------------------------|--|-------------|--------------|------------|---|--|--|--|
| Accipiter cooperii | Cooper's hawk | Birds | None | None | Cismontane woodland Riparian forest Riparian woodland Upper montane coniferous forest | Woodland, chiefly of open, interrupted or marginal type. | Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks. | No suitable habitat is present for this species. This species is not present. |
| Agelaius tricolor | tricolored blackbird | Birds | None | Threatened | Freshwater marsh Marsh & swamp Swamp Wetland | Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. | Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony. | No suitable habitat is present for this species. This species is not present. |
| Aimophila ruficeps canescens | southern California rufous-crowned sparrow | Birds | None | None | Chaparral Coastal scrub | Resident in Southern California coastal sage scrub and sparse mixed chaparral. | Frequents relatively steep, often rocky hillsides with grass and forb patches. | No suitable habitat is present for this species. This species is not present. |
| Ammodramus savannarum | grasshopper sparrow | Birds | None | None | Valley & foothill grassland | Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes. | Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-----------------------|------------------------------------|-------------|--------------|------------|--|---|---|--|
| Anaxyrus californicus | arroyo toad | Amphibians | Endangered | None | Desert wash Riparian scrub Riparian woodland South coast flowing waters South coast standing waters | Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc. | Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range. | No suitable habitat is present for this species. This species is not present. |
| Anniella stebbinsi | Southern California legless lizard | Reptiles | None | None | Broadleaved upland forest Chaparral Coastal dunes Coastal scrub | Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. | Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content. | No suitable habitat is present for this species. This species is not present. |
| Antrozous pallidus | pallid bat | Mammals | None | None | Chaparral Coastal scrub Desert wash Great Basin grassland Great Basin scrub Mojavean desert scrub Riparian woodland Sonoran desert scrub Upper montane coniferous forest Valley & foothill grassland | Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. | Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------|-------------|--------------|------------|---|--|--|--|
| <i>Aquila chrysaetos</i> | golden eagle | Birds | None | None | Broadleaved upland forest Cismontane woodland Coastal prairie Great Basin grassland Great Basin scrub Lower montane coniferous forest Pinon & juniper woodlands Upper montane coniferous forest Valley & foothill grassland | Rolling foothills, mountain areas, sage-juniper flats, and desert. | Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas. | No suitable habitat is present for this species. This species is not present. |
| <i>Arizona elegans occidentalis</i> | California glossy snake | Reptiles | None | None | | Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. | Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils. | No suitable habitat is present for this species. This species is not present. |
| <i>Artemisiospiza belli belli</i> | Bell's sage sparrow | Birds | None | None | Chaparral Coastal scrub | Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. | Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|--------------------------------|--------------------------|-------------|--------------|------------|--|--|--|--|
| Asio otus | long-eared owl | Birds | None | None | Cismontane woodland Great Basin scrub Riparian forest Riparian woodland Upper montane coniferous forest | Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses. | Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding. | No suitable habitat is present for this species. This species is not present . |
| Aspidoscelis hyperythra | orange-throated whiptail | Reptiles | None | None | Chaparral Cismontane woodland Coastal scrub | Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats. | Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites. | No suitable habitat is present for this species. This species is not present . |
| Aspidoscelis tigris stejnegeri | coastal whiptail | Reptiles | None | None | | Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland & riparian areas. | Ground may be firm soil, sandy, or rocky. | No suitable habitat is present for this species. This species is not present . |
| Athene cucularia | burrowing owl | Birds | None | None | Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran desert scrub Valley & foothill grassland | Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. | Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel. | No suitable habitat to support roosting or nesting. This species is not present . |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-----------------------|--------------------------------|-------------|--------------|----------------------|---|--|---|--|
| Atractelmis wawona | Wawona riffle beetle | Insects | None | None | Aquatic | Aquatic; found in riffles of rapid, small to medium clear mountain streams; 2000-5000 ft elev. | Strong preference for inhabiting submerged aquatic mosses | No suitable habitat is present for this species. This species is not present. |
| Batrachoseps gabrieli | San Gabriel slender salamander | Amphibians | None | None | Talus slope | Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes. | Most active on the surface in winter and early spring. | No suitable habitat is present for this species. This species is not present. |
| Bombus crotchii | Crotch bumble bee | Insects | None | Candidate Endangered | | Coastal California east to the Sierra-Cascade crest and south into Mexico. | Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum. | No suitable habitat is present for this species. This species is not present. |
| Buteo swainsoni | Swainson's hawk | Birds | None | Threatened | Great Basin grassland Riparian forest Riparian woodland Valley & foothill grassland | Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees. | Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. | No suitable habitat is present for this species. This species is not present. |

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|--|---------------------------------------|-------------|--------------|------------|--------------------------------------|--|--|--|
| Callophrys mossii hidakupa | San Gabriel Mountains elfin butterfly | Insects | None | None | Lower montane coniferous forest | San Gabriel and San Bernardino mountains at elevations of 3,000 to approximately 5,500 ft. | Foodplant is Sedum spathulifolium. Type locality is southern mixed evergreen forest. | No suitable habitat is present for this species. This species is not present. |
| Campylorhynchus brunneicapillus sandiegensis | coastal cactus wren | Birds | None | None | Coastal scrub | Southern California coastal sage scrub. | Wrens require tall opuntia cactus for nesting and roosting. | No suitable habitat is present for this species. This species is not present. |
| Catostomus santaanae | Santa Ana sucker | Fish | Threatened | None | Aquatic South coast flowing waters | Endemic to Los Angeles Basin south coastal streams. | Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae. | No suitable habitat is present for this species. This species is not present. |
| Chaetodipus fallax fallax | northwestern San Diego pocket mouse | Mammals | None | None | Chaparral Coastal scrub | Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County. | Sandy, herbaceous areas, usually in association with rocks or coarse gravel. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|----------------------------------|------------------------------|-------------|--------------|------------|--|--|--|--|
| Coccyzus americanus occidentalis | western yellow-billed cuckoo | Birds | Threatened | Endangered | Riparian forest | Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. | Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape. | No suitable habitat is present for this species. This species is not present. |
| Coleonyx variegatus abbotti | San Diego banded gecko | Reptiles | None | None | Chaparral Coastal scrub | Coastal & cismontane Southern California. | Found in granite or rocky outcrops in coastal scrub and chaparral habitats. | No suitable habitat is present for this species. This species is not present. |
| Coturnicops noveboracensis | yellow rail | Birds | None | None | Freshwater marsh Meadow & seep | Summer resident in eastern Sierra Nevada in Mono County. | Freshwater marshlands. | No suitable habitat is present for this species. This species is not present. |
| Crotalus ruber | red-diamond rattlesnake | Reptiles | None | None | Chaparral Mojavean desert scrub Sonoran desert scrub | Chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains. | Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects. | No suitable habitat is present for this species. This species is not present. |

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|---------------------------|-----------------------------------|-------------|--------------|----------------------|---|---|--|--|
| Cypseloides niger | black swift | Birds | None | None | | Coastal belt of Santa Cruz and Monterey counties; central & southern Sierra Nevada; San Bernardino & San Jacinto mountains. | Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely. | No suitable habitat is present for this species. This species is not present. |
| Diplectrona californica | California diplectronan caddisfly | Insects | None | None | Aquatic | | | No suitable habitat is present for this species. This species is not present. |
| Dipodomys merriami parvus | San Bernardino kangaroo rat | Mammals | Endangered | Candidate Endangered | Coastal scrub | Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains. | Needs early to intermediate seral stages. | No suitable habitat is present for this species. This species is not present. |
| Dipodomys stephensi | Stephens' kangaroo rat | Mammals | Endangered | Threatened | Coastal scrub Valley & foothill grassland | Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover. | Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil. | No suitable habitat is present for this species. This species is not present. |

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|----------------------------|--------------------------------|-------------|--------------|------------|--|--|---|--|
| Elanus leucurus | white-tailed kite | Birds | None | None | Cismontane woodland Marsh & swamp Riparian woodland Valley & foothill grassland Wetland | Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland. | Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching. | No suitable habitat is present for this species. This species is not present. |
| Empidonax traillii extimus | southwestern willow flycatcher | Birds | Endangered | Endangered | Riparian woodland | Riparian woodlands in Southern California. | | No suitable habitat is present for this species. This species is not present. |
| Emys marmorata | western pond turtle | Reptiles | None | None | Aquatic Artificial flowing waters Klamath/North coast flowing waters Klamath/North coast standing waters Marsh & swamp Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowing waters South coast standing waters Wetland | A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. | Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying. | No suitable habitat is present for this species. This species is not present. |

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|---------------------------------|---------------------------|-------------|--------------|------------|---|--|--|--|
| Ensatina eschscholtzii klauberi | large-blotched salamander | Amphibians | None | None | | Found in conifer and woodland associations. | Found in leaf litter, decaying logs and shrubs in heavily forested areas. | No suitable habitat is present for this species. This species is not present. |
| Eremophila alpestris actia | California horned lark | Birds | None | None | Marine intertidal & splash zone communities Meadow & seep | Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. | Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats. | No suitable habitat is present for this species. This species is not present. |
| Eumops perotis californicus | western mastiff bat | Mammals | None | None | Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland | Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc. | Roosts in crevices in cliff faces, high buildings, trees and tunnels. | No suitable habitat is present for this species. This species is not present. |
| Falco columbarius | merlin | Birds | None | None | Estuary Great Basin grassland Valley & foothill grassland | Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches. | Clumps of trees or windbreaks are required for roosting in open country. | No suitable habitat is present for this species. This species is not present. |

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| <i>Gila orcuttii</i> | arroyo chub | Fish | None | None | Aquatic South coast flowing waters | Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave & San Diego river basins. | Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates. | No suitable habitat is present for this species. This species is not present. |
| <i>Glyptostoma gabrielense</i> | San Gabriel chestnut | Mollusks | None | None | | Terrestrial | | No suitable habitat is present for this species. This species is not present. |
| <i>Gonidea angulata</i> | western ridged mussel | Mollusks | None | None | Aquatic | Primarily creeks & rivers & less often lakes. Originally in most of state, now extirpated from Central & Southern Calif. | | No suitable habitat is present for this species. This species is not present. |
| <i>Icteria virens</i> | yellow-breasted chat | Birds | None | None | Riparian forest Riparian scrub Riparian woodland | Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. | Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground. | No suitable habitat is present for this species. This species is not present. |

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|-------------------------------------|-----------------------------------|-------------|--------------|------------|---|---|--|--|
| Lasiurus cinereus | hoary bat | Mammals | None | None | Broadleaved upland forest Cismontane woodland Lower montane coniferous forest North coast coniferous forest | Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. | Roosts in dense foliage of medium to large trees. Feeds primarily on moths. Requires water. | No suitable habitat is present for this species. This species is not present. |
| Lasiurus xanthinus | western yellow bat | Mammals | None | None | Desert wash | Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. | Roosts in trees, particularly palms. Forages over water and among trees. | No suitable habitat is present for this species. This species is not present. |
| Laterallus jamaicensis coturniculus | California black rail | Birds | None | Threatened | Brackish marsh Freshwater marsh Marsh & swamp Salt marsh Wetland | Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. | Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat. | No suitable habitat is present for this species. This species is not present. |
| Lepus californicus bennettii | San Diego black tailed jackrabbit | Mammals | None | None | Coastal scrub | Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges. | Coastal sage scrub habitats in Southern California. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|---------------------------|--------------------------|-------------|--------------|------------|---|--|--|--|
| Myotis yumanensis | Yuma myotis | Mammals | None | None | Lower montane coniferous forest Riparian forest Riparian woodland Upper montane coniferous forest | Optimal habitats are open forests and woodlands with sources of water over which to feed. | Distribution is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices. | No suitable habitat is present for this species. This species is not present. |
| Neolarra alba | white cuckoo bee | Insects | None | None | | Known only from localities in Southern California. | Cleptoparasitic in the nests of perdita bees. | No suitable habitat is present for this species. This species is not present. |
| Neotoma lepida intermedia | San Diego desert woodrat | Mammals | None | None | Coastal scrub | Coastal scrub of Southern California from San Diego County to San Luis Obispo County. | Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes. | No suitable habitat is present for this species. This species is not present. |
| Nyctinomops femorosaccus | pocketed free-tailed bat | Mammals | None | None | Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran desert scrub | Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. | Rocky areas with high cliffs. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------------------|-------------|--------------|------------|---|---|--|--|
| Nyctinomops macrotis | big free-tailed bat | Mammals | None | None | | Low-lying arid areas in Southern California. | Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths. | No suitable habitat is present for this species. This species is not present. |
| Oncorhynchus mykiss irideus pop. 10 | steelhead - southern California DPS | Fish | Endangered | None | Aquatic South coast flowing waters | Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). | Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions. | No suitable habitat is present for this species. This species is not present. |
| Ovis canadensis nelsoni | desert bighorn sheep | Mammals | None | None | Alpine Alpine dwarf scrub Chaparral Chenopod scrub Great Basin scrub Mojavean desert scrub Montane dwarf scrub Pinon & juniper woodlands Riparian woodland Sonoran desert scrub | Widely distributed from the White Mtns in Mono Co. to the Chocolate Mts in Imperial Co. | Open, rocky, steep areas with available water and herbaceous forage. | No suitable habitat is present for this species. This species is not present. |
| Perognathus longimembris brevinasus | Los Angeles pocket mouse | Mammals | None | None | Coastal scrub | Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin. | Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|------------------------------------|--------------------------------|-------------|--------------|------------|--|---|--|--|
| Phrynosoma blainvillii | coast horned lizard | Reptiles | None | None | Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland | Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. | Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects. | No suitable habitat is present for this species. This species is not present. |
| Polioptila californica californica | coastal California gnatcatcher | Birds | Threatened | None | Coastal bluff scrub Coastal scrub | Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California. | Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied. | No suitable habitat is present for this species. This species is not present. |
| Rana boylii | foothill yellow-legged frog | Amphibians | None | Endangered | Aquatic Chaparral Cismontane woodland Coastal scrub Klamath/North coast flowing waters Lower montane coniferous forest Meadow & seep Riparian forest Riparian woodland Sacramento/San Joaquin flowing waters | Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. | Needs at least some cobble-sized substrate for egg-laying. Needs at least 15 weeks to attain metamorphosis. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|--------------------------------------|-------------|--------------|------------|--------------------------------------|--|--|--|
| Rana muscosa | southern mountain yellow-legged frog | Amphibians | Endangered | Endangered | Aquatic | Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino mountains (southern DPS). Northern DPS was determined to warrant listing as endangered, Apr 2014, effective Jun 30, 2014. | Always encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development. | No suitable habitat is present for this species. This species is not present. |
| Rhaphiomidas terminatus abdominalis | Delhi Sands flower-loving fly | Insects | Endangered | None | Interior dunes | Found only in areas of the Delhi Sands formation in southwestern San Bernardino & northwestern Riverside counties. | Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. shade. | No suitable habitat is present for this species. This species is not present. |
| Rhinichthys osculus ssp. 3 | Santa Ana speckled dace | Fish | None | None | Aquatic South coast flowing waters | Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system. | Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------|-------------------------|-------------|--------------|------------|---|---|--|--|
| Salvadora hexalepis virgultea | coast patch-nosed snake | Reptiles | None | None | Coastal scrub | Brushy or shrubby vegetation in coastal Southern California. | Require small mammal burrows for refuge and overwintering sites. | No suitable habitat is present for this species. This species is not present. |
| Setophaga petechia | yellow warbler | Birds | None | None | Riparian forest Riparian scrub Riparian woodland | Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. | Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders. | No suitable habitat is present for this species. This species is not present. |
| Spea hammondii | western spadefoot | Amphibians | None | None | Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland | Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. | Vernal pools are essential for breeding and egg-laying. | No suitable habitat is present for this species. This species is not present. |
| Taricha torosa | Coast Range newt | Amphibians | None | None | | Coastal drainages from Mendocino County to San Diego County. | Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-----------------|-----------------|-------------|--------------|------------|--|--|---|---|
| Taxidea taxus | American badger | Mammals | None | None | Alkali marsh Alkali playa Alpine Alpine dwarf scrub Bog & fen Brackish marsh Broadleaved upland forest Chaparral Chenopod scrub Cismontane woodland Closed-cone coniferous forest Coastal bluff scrub Coastal dunes Coastal prairie Coastal scrub Desert dunes Desert wash Freshwater marsh Great Basin grassland Great Basin scrub Interior dunes Lone formation Joshua tree woodland Limestone Lower montane coniferous forest Marsh & swamp Meadow & seep Mojavean desert scrub | Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. | Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows. | No suitable habitat is present for this species. This species is not present . |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-----------------------|-------------------------|-------------|--------------|------------|---|---|--|--|
| Thamnophis hammondi | two-striped gartersnake | Reptiles | None | None | Marsh & swamp Riparian scrub Riparian woodland Wetland | Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation. | Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth. | No suitable habitat is present for this species. This species is not present. |
| Vireo bellii pusillus | least Bell's vireo | Birds | Endangered | Endangered | Riparian forest Riparian scrub Riparian woodland | Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. | Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite. | No suitable habitat is present for this species. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|---|------------------------|-------------|--------------|------------|--------------|---|--|--|---|
| Abronia villosa var. aurita | chaparral sand-verbena | Dicots | None | None | 1B.1 | Chaparral Coastal scrub Desert dunes | Chaparral, coastal scrub, desert dunes. | Sandy areas. -60-1570 m. | No suitable habitat is present on site. This species is not present. |
| Arctostaphylos glandulosa ssp. gabrielensis | San Gabriel manzanita | Dicots | None | None | 1B.2 | Chaparral | Chaparral. | Rocky outcrops; can be dominant shrub where it occurs. 960-2015 m. | No suitable habitat is present on site. This species is not present. |
| Astragalus brauntonii | Braunton's milk-vetch | Dicots | Endangered | None | 1B.1 | Chaparral Coastal scrub Limestone Valley & foothill grassland | Chaparral, coastal scrub, valley and foothill grassland. | Recent burns or disturbed areas; usually on sandstone with carbonate layers. Soil specialist; requires shallow soils to defeat pocket gophers and open areas, preferably on hilltops, saddles or bowls between hills. 3-640 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|------------------------------------|----------------------------|-------------|--------------|------------|--------------|---|--|---|---|
| Atriplex coulteri | Coulter's saltbush | Dicots | None | None | 1B.2 | Coastal bluff scrub Coastal dunes Coastal scrub Valley & foothill grassland | Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland. | Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. 2460 m. | No suitable habitat is present on site. This species is not present. |
| Berberis nevinii | Nevin's barberry | Dicots | Endangered | Endangered | 1B.1 | Chaparral Cismontane woodland Coastal scrub Riparian scrub | Chaparral, cismontane woodland, coastal scrub, riparian scrub. | On steep, N-facing slopes or in low grade sandy washes. 90-1590 m. | No suitable habitat is present on site. This species is not present. |
| Brodiaea filifolia | thread-leaved brodiaea | Monocots | Threatened | Endangered | 1B.1 | Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland | Chaparral (openings), cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools. | Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15-1030 m. | No suitable habitat is present on site. This species is not present. |
| California Walnut Woodland | California Walnut Woodland | Woodland | None | None | | Cismontane woodland | | | Not present. |
| Calochortus clavatus var. gracilis | slender mariposa-lily | Monocots | None | None | 1B.2 | Chaparral Coastal scrub Valley & foothill grassland | Chaparral, coastal scrub, valley and foothill grassland. | Shaded foothill canyons; often on grassy slopes within other habitat. 210-1815 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------------|-------------|--------------|------------|--------------|---|--|--|---|
| Calochortus plummerae | Plummer's mariposa-lily | Monocots | None | None | 4.2 | Chaparral Cismontane woodland Coastal scrub Lower montane coniferous forest Valley & foothill grassland | Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest. | Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m. | No suitable habitat is present on site. This species is not present. |
| Calochortus weedii var. intermedius | intermediate mariposa-lily | Monocots | None | None | 1B.2 | Chaparral Coastal scrub Valley & foothill grassland | Coastal scrub, chaparral, valley and foothill grassland. | Dry, rocky calcareous slopes and rock outcrops. 60-1575 m. | No suitable habitat is present on site. This species is not present. |
| Calystegia felix | lucky morning-glory | Dicots | None | None | 1B.1 | Meadow & seep Riparian scrub | Meadows and seeps, riparian scrub. | Sometimes alkaline, alluvial. 9-205 m. | No suitable habitat is present on site. This species is not present. |
| Canyon Live Oak Ravine Forest | Canyon Live Oak Ravine Forest | Riparian | None | None | | Riparian forest | | | Not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|---------------------------------|------------------------|-------------|--------------|------------|--------------|---|--|--|---|
| Castilleja gleasoni | Mt. Gleason paintbrush | Dicots | None | Rare | 1B.2 | Chaparral Lower montane coniferous forest Pinon & juniper woodlands | Lower montane coniferous forest, chaparral, pinyon and juniper woodland. | On open flats or slopes in granitic soil. Restricted to the San Gabriel Mountains. 975-1950 m. | No suitable habitat is present on site. This species is not present. |
| Centromadia pungens ssp. laevis | smooth tarplant | Dicots | None | None | 1B.1 | Alkali playa Chenopod scrub Meadow & seep Riparian woodland Valley & foothill grassland Wetland | Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland. | Alkali meadow, alkali scrub; also in disturbed places. 5-1170 m. | No suitable habitat is present on site. This species is not present. |
| Chorizanthe parryi var. parryi | Parry's spineflower | Dicots | None | None | 1B.1 | Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland | Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland. | Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m. | No suitable habitat is present on site. This species is not present. |
| Cladium californicum | California saw-grass | Monocots | None | None | 2B.2 | Alkali marsh Freshwater marsh Meadow & seep Wetland | Meadows and seeps, marshes and swamps (alkaline or freshwater). | Freshwater or alkaline moist habitats. -20-2135 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------------------|-------------|--------------|------------|--------------|---|--|---|---|
| Claytonia peirsonii ssp. peirsonii | Peirson's spring beauty | Dicots | None | None | 1B.2 | Subalpine coniferous forest Upper montane coniferous forest | Upper montane coniferous forest, subalpine coniferous forest. | Granitic scree slopes, often with a sandy or fine soil component and granitic cobbles. 1510-2745 m. | No suitable habitat is present on site. This species is not present. |
| Coastal and Valley Freshwater Marsh | Coastal and Valley Freshwater Marsh | Marsh | None | None | | Marsh & swamp Wetland | | | Not present. |
| Dodecaema leptoceras | slender-horned spineflower | Dicots | Endangered | Endangered | 1B.1 | Chaparral Cismontane woodland Coastal scrub | Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub). | Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m. | No suitable habitat is present on site. This species is not present. |
| Dudleya densiflora | San Gabriel Mountains dudleya | Dicots | None | None | 1B.1 | Chaparral Cismontane woodland Coastal scrub Lower montane coniferous forest Riparian forest | Chaparral, coastal scrub, cismontane woodland, lower montane coniferous forest, riparian forest. | In crevices and on decomposed granite on cliffs and canyon walls. 270-1100 m. | No suitable habitat is present on site. This species is not present. |
| Dudleya multicaulis | many-stemmed dudleya | Dicots | None | None | 1B.2 | Chaparral Coastal scrub Valley & foothill grassland | Chaparral, coastal scrub, valley and foothill grassland. | In heavy, often clayey soils or grassy slopes. 1-910 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|---------------------------------------|----------------------------|-------------|--------------|------------|--------------|---|---|--|---|
| Eriastrum densifolium ssp. sanctorum | Santa Ana River woollystar | Dicots | Endangered | Endangered | 1B.1 | Chaparral Coastal scrub | Coastal scrub, chaparral. | In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m. | No suitable habitat is present on site. This species is not present. |
| Eriogonum microthecum var. johnstonii | Johnston's buckwheat | Dicots | None | None | 1B.3 | Limestone Subalpine coniferous forest Upper montane coniferous forest | Subalpine coniferous forest, upper montane coniferous forest. | Slopes and ridges on granite or limestone. 1795-2865 m | No suitable habitat is present on site. This species is not present. |
| Fimbristylis thermalis | hot springs fimbristylis | Monocots | None | None | 2B.2 | Meadow & seep Wetland | Meadows and seeps (alkaline). | Near hot springs. 115-1585 m. | No suitable habitat is present on site. This species is not present. |
| Horkelia cuneata var. puberula | mesa horkelia | Dicots | None | None | 1B.1 | Chaparral Cismontane woodland Coastal scrub | Chaparral, cismontane woodland, coastal scrub. | Sandy or gravelly sites. 15-1645 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------|-------------|--------------|------------|--------------|---|--|--|---|
| Imperata brevifolia | California satintail | Monocots | None | None | 2B.1 | Chaparral Coastal scrub Meadow & seep Mojavean desert scrub Riparian scrub Wetland | Coastal scrub, chaparral, riparian scrub, mojavean desert scrub, meadows and seeps (alkali), riparian scrub. | Mesic sites, alkali seeps, riparian areas. 3-1495 m. | No suitable habitat is present on site. This species is not present. |
| Lepidium virginicum var. robinsonii | Robinson's pepper-grass | Dicots | None | None | 4.3 | Chaparral Coastal scrub | Chaparral, coastal scrub. | Dry soils, shrubland. 4-1435 m. | No suitable habitat is present on site. This species is not present. |
| Lilium parryi | lemon lily | Monocots | None | None | 1B.2 | Lower montane coniferous forest Meadow & seep Riparian forest Upper montane coniferous forest Wetland | Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest. | Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows & seeps. 625-2930 m. | No suitable habitat is present on site. This species is not present. |
| Linanthus concinnus | San Gabriel linanthus | Dicots | None | None | 1B.2 | Chaparral Lower montane coniferous forest Upper montane coniferous forest | Lower montane coniferous forest, upper montane coniferous forest, chaparral. | Dry rocky slopes, often in Jeffrey pine/canyon oak forest. 1310-2560 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|----------------------|-------------|--------------|------------|--------------|---|--|---|---|
| Monardella australis ssp. jokerstii | Jokerst's monardella | Dicots | None | None | 1B.1 | Chaparral Lower montane coniferous forest | Lower montane coniferous forest, chaparral. | Steep scree or talus slopes between breccia. Secondary alluvial benches along drainages and washes. 210-1740 m. | No suitable habitat is present on site. This species is not present. |
| Monardella macrantha ssp. hallii | Hall's monardella | Dicots | None | None | 1B.3 | Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Valley & foothill grassland | Broadleafed upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley and foothill grassland. | Dry slopes and ridges in openings. 700-1800 m. | No suitable habitat is present on site. This species is not present. |
| Muhlenbergia californica | California muhly | Monocots | None | None | 4.3 | Chaparral Coastal scrub Lower montane coniferous forest Meadow & seep | Coastal scrub, chaparral, lower montane coniferous forest, meadows and seeps. | Usually found near streams or seeps. 100-2000 m. | No suitable habitat is present on site. This species is not present. |
| Muhlenbergia utilis | aparejo grass | Monocots | None | None | 2B.2 | Chaparral Cismontane woodland Coastal scrub Marsh & swamp Meadow & seep Ultramafic | Meadows and seeps, marshes and swamps, chaparral, coastal scrub, cismontane woodland. | Sometimes alkaline, sometimes serpentinite. 25-2325 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|------------------------------|----------------------------------|-------------|--------------|------------|--------------|---|--|---|---|
| Navarretia prostrata | prostrate vernal pool navarretia | Dicots | None | None | 1B.2 | Coastal scrub Meadow & seep Valley & foothill grassland Vernal pool Wetland | Coastal scrub, valley and foothill grassland, vernal pools, meadows and seeps. | Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 3-1235 m. | No suitable habitat is present on site. This species is not present. |
| Oreonana vestita | woolly mountain-parsley | Dicots | None | None | 1B.3 | Lower montane coniferous forest Subalpine coniferous forest Upper montane coniferous forest | Subalpine coniferous forest, upper montane coniferous forest, lower montane coniferous forest. | High ridges; on scree, talus, or gravel. 800-3370 m. | No suitable habitat is present on site. This species is not present. |
| Orobanche valida ssp. valida | Rock Creek broomrape | Dicots | None | None | 1B.2 | Chaparral Pinon & juniper woodlands | Chaparral, pinyon and juniper woodland. | On slopes of loose decomposed granite; parasitic on various chaparral shrubs. 975-1985 m. | No suitable habitat is present on site. This species is not present. |
| Phacelia stellaris | Brand's star phacelia | Dicots | None | None | 1B.1 | Coastal dunes Coastal scrub | Coastal scrub, coastal dunes. | Open areas. 3-370 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|-------------------------------------|-------------------------------------|-------------|--------------|------------|--------------|---|---|---|---|
| Pseudognaphalium leucocephalum | white rabbit-tobacco | Dicots | None | None | 2B.2 | Chaparral Cismontane woodland Coastal scrub Riparian woodland | Riparian woodland, cismontane woodland, coastal scrub, chaparral. | Sandy, gravelly sites. 35-515 m. | No suitable habitat is present on site. This species is not present. |
| Riversidian Alluvial Fan Sage Scrub | Riversidian Alluvial Fan Sage Scrub | Scrub | None | None | | Coastal scrub | | | No suitable habitat is present on site. This species is not present. |
| Sagittaria sanfordii | Sanford's arrowhead | Monocots | None | None | 1B.2 | Marsh & swamp Wetland | Marshes and swamps. | In standing or slow-moving freshwater ponds, marshes, and ditches. 0-605 m. | No suitable habitat is present on site. This species is not present. |
| Senecio aphanactis | chaparral ragwort | Dicots | None | None | 2B.2 | Chaparral Cismontane woodland Coastal scrub | Chaparral, cismontane woodland, coastal scrub. | Drying alkaline flats. 20-1020 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|---|---|---------------|--------------|------------|--------------|--|---|---------------------------------------|---|
| Sidalcea neomexicana | salt spring checkerbloom | Dicots | None | None | 2B.2 | Alkali playa Chaparral Coastal scrub Lower montane coniferous forest Mojavean desert scrub Wetland | Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub. | Alkali springs and marshes. 3-2380 m. | No suitable habitat is present on site. This species is not present. |
| Southern California Arroyo Chub/Santa Ana Sucker Stream | Southern California Arroyo Chub/Santa Ana Sucker Stream | Inland Waters | None | None | | | | | Not present. |
| Southern Coast Live Oak Riparian Forest | Southern Coast Live Oak Riparian Forest | Riparian | None | None | | Riparian forest | | | Not present. |
| Southern Cottonwood Willow Riparian Forest | Southern Cottonwood Willow Riparian Forest | Riparian | None | None | | Riparian forest | | | Not present. |
| Southern Sycamore Alder Riparian Woodland | Southern Sycamore Alder Riparian Woodland | Riparian | None | None | | Riparian woodland | | | Not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|--------------------------|------------------------------|-------------|--------------|------------|--------------|---|--|--|---|
| Southern Willow Scrub | Southern Willow Scrub | Riparian | None | None | | Riparian scrub | | | Not present. |
| Streptanthus bernardinus | Laguna Mountains jewelflower | Dicots | None | None | 4.3 | Chaparral Lower montane coniferous forest Upper montane coniferous forest | Chaparral, lower montane coniferous forest. | Clay or decomposed granite soils; sometimes in disturbed areas such as streamsides or roadcuts. 1440-2500 m. | No suitable habitat is present on site. This species is not present. |
| Symphotrichum defoliatum | San Bernardino aster | Dicots | None | None | 1B.2 | Cismontane woodland Coastal scrub Lower montane coniferous forest Marsh & swamp Meadow & seep Valley & foothill grassland | Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland. | Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m. | No suitable habitat is present on site. This species is not present. |
| Symphotrichum greatae | Greata's aster | Dicots | None | None | 1B.3 | Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Riparian woodland | Chaparral, cismontane woodland, broadleaved upland forest, lower montane coniferous forest, riparian woodland. | Mesic canyons. 335-2015 m. | No suitable habitat is present on site. This species is not present. |

| Scientific Name | Common Name | Taxon Group | Federal List | State List | R Plant Rank | Habitats | General Habitat | Micro Habitat | Presence/Absence |
|--|---------------------|-------------|--------------|------------|--------------|---|--|---|---|
| <i>Thelypteris puberula</i> var. <i>sonorensis</i> | Sonoran maiden fern | Ferns | None | None | 2B.2 | Meadow & seep Wetland | Meadows and seeps. | Along streams, seepage areas. 60-930 m. | No suitable habitat is present on site. This species is not present. |
| <i>Thysanocarpus rigidus</i> | rigid fringe-pod | Dicots | None | None | 1B.2 | Pinon & juniper woodlands | Pinyon and juniper woodland. | Dry, rocky slopes and ridges of oak and pine woodland in arid mountain ranges. 425-2165 | No suitable habitat is present on site. This species is not present. |
| <i>Viola pinetorum</i> ssp. <i>grisea</i> | grey-leaved violet | Dicots | None | None | 1B.2 | Meadow & seep Subalpine coniferous forest Upper montane coniferous forest | Subalpine coniferous forest, upper montane coniferous forest, meadows and seeps. | Dry mountain peaks and slopes. 1580-3700 m. | No suitable habitat is present on site. This species is not present. |
| Walnut Forest | Walnut Forest | Forest | None | None | | Broadleaved upland forest | | | Not present. |

APPENDIX C



View of disturbed habitat and developed areas.



View of disturbed habitat facing northeast.



View of disturbed habitat and concrete slabs facing southwest.



View of concrete slabs in the central portion of the site facing north.



View of animal pens on the southern portion of the site facing north.



View of disturbed habitat in the central portion of the site facing north.

APPENDIX D

Draft – Client Review Only

**General Biological Resources
Assessment**

**Francis Avenue Residential
Development Project
Chino, California**

**Assessor's Parcel Numbers 1013-211-21
USGS Ontario 7.5' Quadrangle
Township 1 South, Range 8 West, Section 34**

Prepared for | Brett Crowder
Coastal Commercial Properties
1020 Second Street, Suite C
Encinitas, California 92024

Prepared by | Psomas
225 South Lake Street, Suite 1000
Pasadena, California 91101
T: (626) 351-2000 F: (626) 351-2030
Contact: David Hughes, Senior Project Manager

July 27, 2016

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ATTACHMENTS

- A Site Photos
- B Plant Compendium
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- D CNPS and CNDDDB Special-Status Species List
- E Special Status Plant Species Known to Occur in the Project Region
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EXECUTIVE SUMMARY

Coastal Commercial Properties (Project Applicant) retained Psomas to prepare this General Biological Resources Assessment Report for the property located at 4570 Francis Avenue located in the City of Chino, California. The purpose of this report is to document existing biological conditions on the Project site and analyze the potential for biological resources including special status plant and wildlife species to occur on the Project site.

Trees subject to regulation under the City of Chino Municipal Code were observed during the field visit and a habitat assessment for burrowing owl was also performed. It was determined that potentially suitable habitat for the burrowing owl is not present on site. No special status plant or animal species were detected on the Project site; no potentially suitable habitat for any special status plant or wildlife species was identified; and no jurisdictional waters were observed.

The Project Applicant and Biological Consultant responsible for the preparation of this report are listed below:

- Coastal Commercial Properties (Project Applicant)
Contact: Brett Crouder
1020 Second Street, Suite C
Encinitas, California 92024
Phone: (949) 622-3122
- Psomas (Biological Consultant)
Contact: David Hughes, Senior Project Manager
225 South Lake Avenue, Suite 1000
Pasadena, California 91101
Phone: (626) 351-2000

1.0 INTRODUCTION

This General Biological Resources Assessment Report presents the findings of a biological reconnaissance survey for the property located at 4570 Francis Avenue (hereinafter referred to as the "Project site) in the City of Chino, San Bernardino County, California. The purpose of the survey was to evaluate existing biological resources and determine the potential for special status plant and wildlife species to occur on the Project site.

1.1 PROJECT LOCATION

The 10.67-acre Project site is located at 4570 Francis Avenue in the City of Chino (Exhibits 1 and 2). The project site is located on the U.S. Geological Survey's (USGS') Ontario 7.5-minute quadrangle of the San Bernardino Meridian at Township 1 South, Range 8 West, Section 34 (Exhibit 3).

1.2 EXISTING CONDITIONS

Currently, the Project site consists of roofed animal pens, concrete pads, and a storage building. The site is bordered by Francis Avenue to the south, Yorba Avenue to the east, and single-family residential properties to the north and west.

The vicinity of the Project site is comprised of residential tract housing, livestock stables, contractor construction yards, vacant lots, transportation corridors (i.e., State Route [SR] 60 and SR-71 freeways), and agricultural fields to the southeast. Numerous large industrial buildings are found between the Project site and the agricultural fields to the southeast.

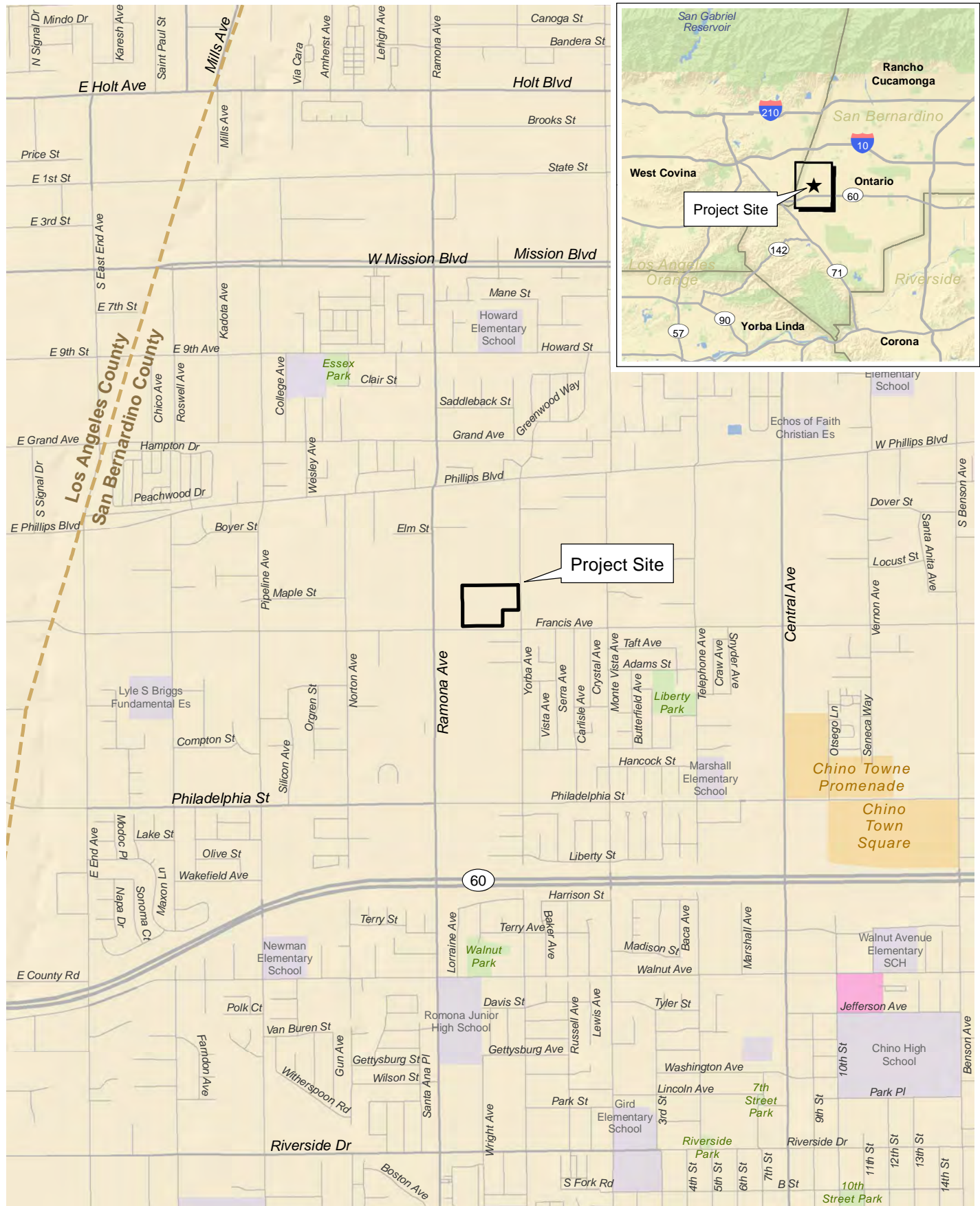
The terrain of the Project site is flat throughout. Elevation is approximately 850 feet above mean sea level (msl). A single soil type, Tujunga loamy sand, occurs on the site (Exhibit 4).

1.3 CLIMATE

Southern California is located in a Mediterranean climate, which is characterized by mild, rainy winters and hot, dry summers. There can also be dramatic differences in rainfall from year to year. Consequently, the vegetation types consist of drought-tolerant, woody shrubs, and trees and annual, fall-sprouting grasses. In the City of Chino, the warmest month is August with an average high of approximately 92 degrees Fahrenheit (°F) and an average low of 62°F, while the coolest month is December with a monthly average high of 68°F and an average low of 42°F (Weather Channel 2016).

1.4 PROJECT DESCRIPTION

The objective of the proposed Project is to create a residential development with associated infrastructure.



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Local Vicinity

4570 Francis Avenue, City of Chino

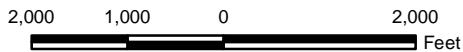


Exhibit 1



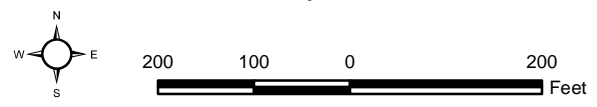
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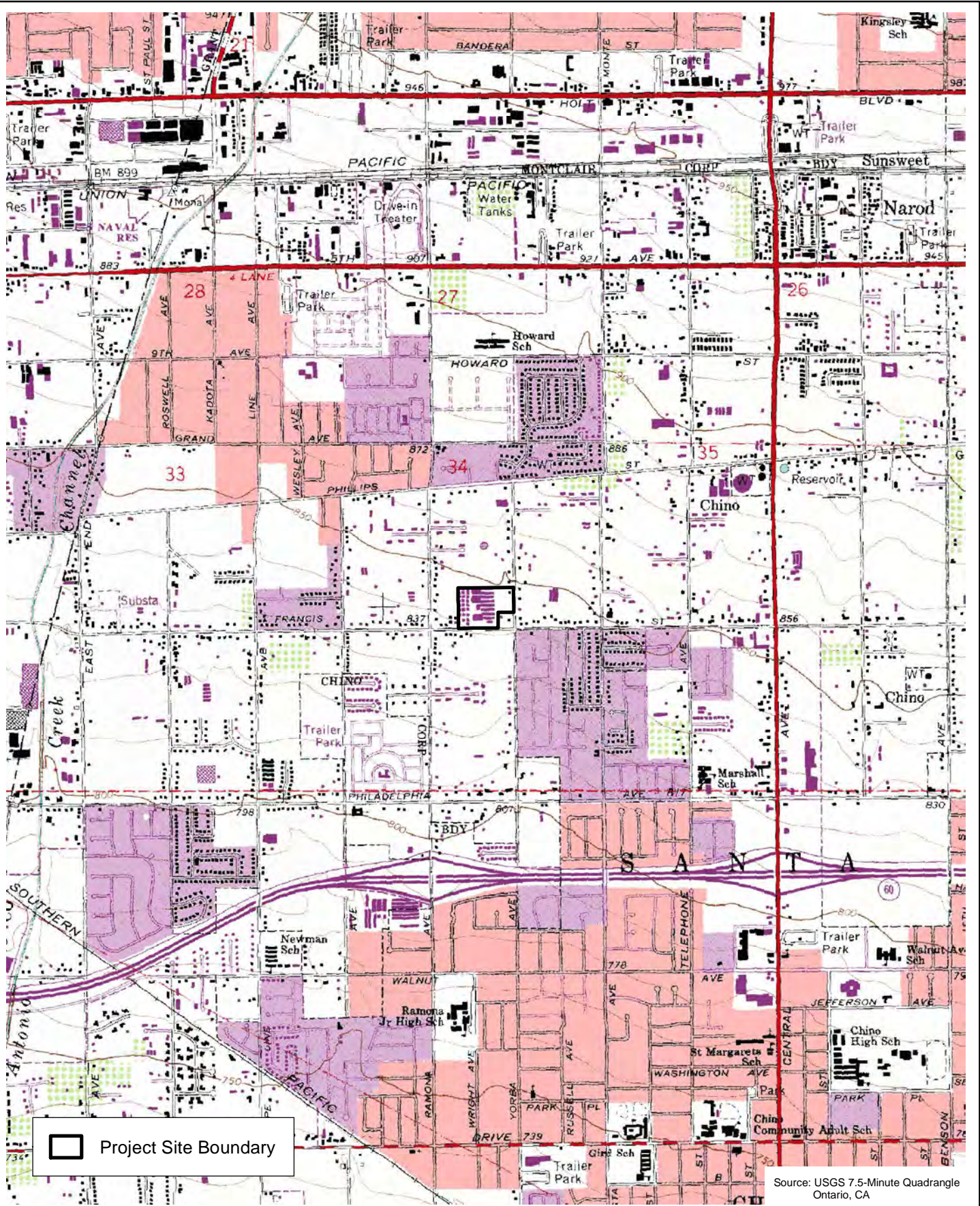


Aerial Source: ESRI 2010

Project Site Location
 4570 Francis Avenue, City of Chino

Exhibit 2



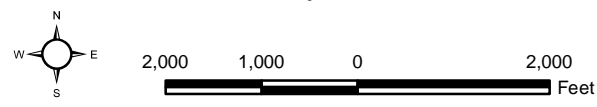


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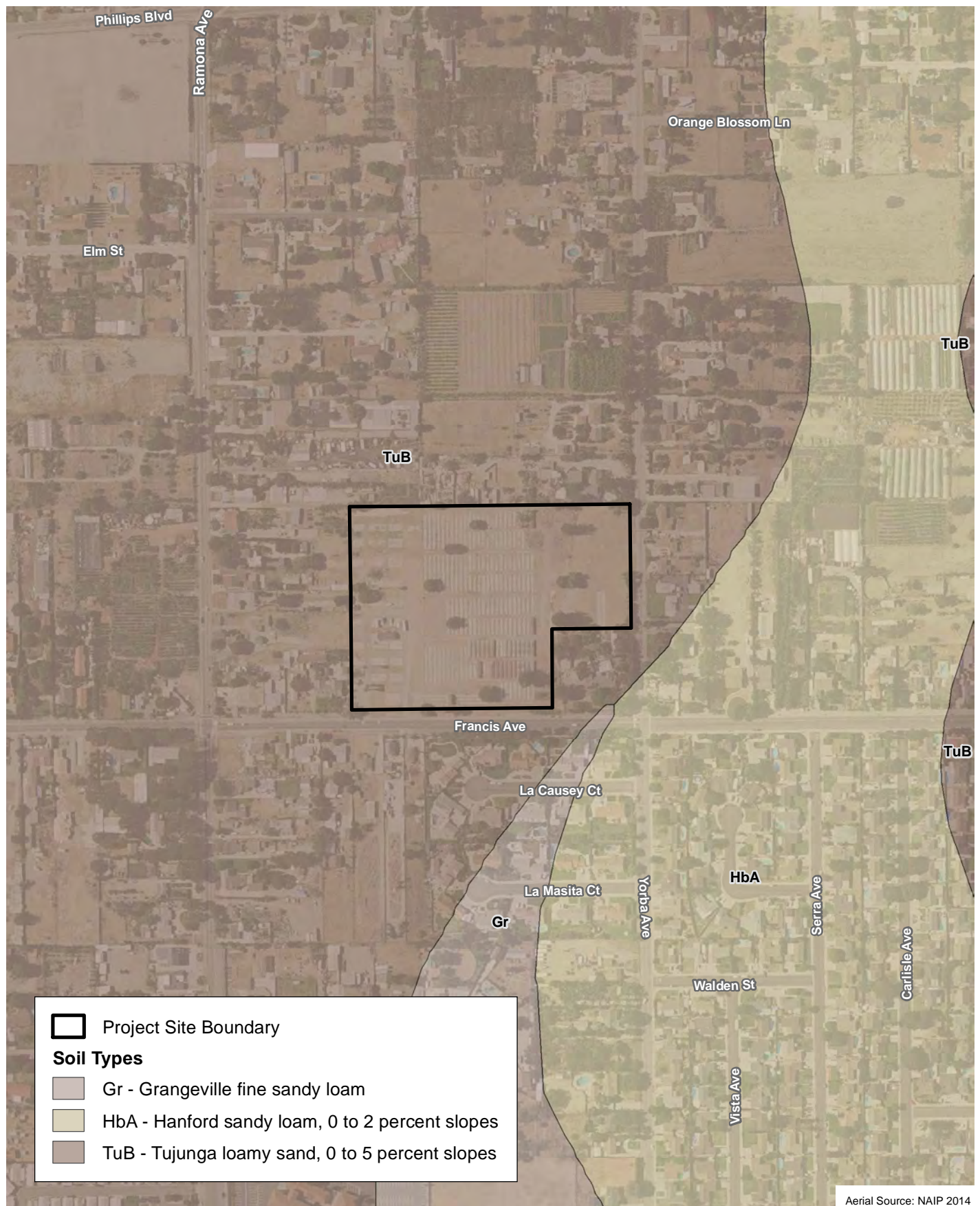
Source: USGS 7.5-Minute Quadrangle Ontario, CA

USGS Topographic Map
 4570 Francis Avenue, City of Chino

Exhibit 3



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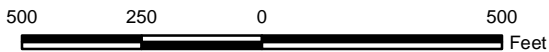


Aerial Source: NAIP 2014

Soil Types

4570 Francis Avenue, City of Chino

Exhibit 4



2.0 SURVEY METHODS

This section describes the methods used to conduct the literature review; perform general biological surveys and vegetation mapping; and assess the Project site's potential to support special status species or other regulated biological resources.

2.1 LITERATURE REVIEW

Psomas conducted a literature search to identify special status plants, wildlife, and habitats known to occur in the vicinity of the Project site. This included a review of the USGS' Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda USGS' 7.5-minute quadrangles in the California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California (CNPS 2016) and the California Department of Fish and Wildlife's (CDFW's) California Natural Diversity Database (CNDDB) (CDFW 2016). In addition, the lists of special status species published by the U.S. Fish and Wildlife Service (USFWS) and CDFW were reviewed.

2.2 VEGETATION MAPPING AND GENERAL SURVEY

Vegetation mapping and general plant and wildlife surveys were conducted on July 14, 2016, by Psomas Botanist Irena Mendez and Biologist Trevor Bristle. Weather conditions during the surveys consisted of partially cloudy skies and warm temperatures (72–80°F) with calm conditions (2–5 mile per hour winds). The purpose of the general surveys was to describe the vegetation present on the Project site and to evaluate the potential of the Project site to support special status species. Nomenclature for vegetation types generally follows that of the CDFW's 2010 *List of Vegetation Alliances and Associations*. Vegetation was mapped in the field on an aerial photograph at a scale of 1 inch equals 100 feet (1"=100').

Plant species were identified in the field or collected for subsequent identification using keys in Baldwin et al. (2012). Taxonomy follows Baldwin et al. (2012) or current scientific journals for scientific and common names.

During the general survey, all areas were evaluated for their potential to support special status plant and wildlife species that are known or expected to occur in the region. Searches for reptiles and amphibians included visually scanning the area. Birds were identified by visual and auditory recognition. Surveying for mammals occurred during the day and included searching for and identifying diagnostic signs, including scat, footprints, scratch-outs, dust bowls, burrows, and trails. Taxonomy and nomenclature for wildlife generally follows Stebbins (2003) for amphibians and reptiles, American Ornithologists' Union (1998) for birds, and Baker et al. (2003) for mammals.

2.3 BURROWING OWL HABITAT ASSESSMENT

A Phase II burrowing owl (*Athene cunicularia*) habitat assessment was performed by Mr. Bristle following protocols approved by the CDFW (2012). The assessment was performed on the Project site as well as a 150-meter (approximate 500-foot) buffer zone around the Project site in search of potentially suitable habitat, where access was available. The habitat assessment generally consisted of walking 100-foot transects while visually scanning the Project site for burrowing owl sign and burrows that could potentially support roosting or nesting burrowing owls. Areas that were inaccessible were surveyed with binoculars. Site conditions were recorded in a field notebook.

2.4 JURISDICTIONAL WATERS

The presence of streambed resources under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and the CDFW was determined according to guidelines described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008) and the *California Fish and Game Code*. The presence of USACE “waters of the U.S.” was determined based on the limits of the “ordinary high water mark” (OHWM), which can be determined by a number of factors including erosion; the deposition of vegetation or debris; and changes in the vegetation. CDFW jurisdiction is defined as the top of bank of the stream/channel/basin or to the outer limit of riparian vegetation located within or immediately adjacent to the river, stream, creek, pond, or lake.

2.5 TREE REGULATORY AUTHORITY

Trees on the Project site may be subject to regulation by the *City of Chino Municipal Code*. The City requires that an applicant receive approval from the Director of Community Development or his designee to remove any regulated trees that are associated with multi-family development, common areas in residential development, and non-residential development. Regulated trees are defined as (1) oak trees with a trunk diameter at breast height measured at 4.5 feet above natural grade level (dbh), that is at least 8 inches; (2) other trees with trunks more than 10 inches dbh; or (3) multi-trunk trees with a total trunk circumference of at least 38 inches at 4.5 feet above natural grade (12 inches dbh) (see Section 20.19.040 of the *City of Chino Municipal Code*).

3.0 SURVEY RESULTS

This section describes the biological resources that occur or may potentially occur on the Project site or areas immediately adjacent to the Project site. The following topics are discussed below: vegetation types, special status vegetation types, special status plant and wildlife species, wildlife movement patterns, burrowing owl habitat assessment, jurisdictional resources, and potentially regulated trees.

3.1 VEGETATION TYPES

No native vegetation types are located on the Project site; only developed and disturbed areas were observed (Exhibit 5). These vegetation types and land covers are described below and their extent on the Project site is summarized in Table 1. Representative photographs of site conditions are included in Attachment A. A compendium of plant species observed on the Project site is provided in Attachment B.

**TABLE 1
SUMMARY OF VEGETATION TYPES**

| Vegetation Type | Project Site Total (acres) |
|-----------------|----------------------------|
| Disturbed | 9.96 |
| Developed | 0.71 |
| Total | 10.67 |

3.1.1 Disturbed

Disturbed areas makeup 9.96 acres of the 10.67-acre Project site and consist of those areas with no concrete or pavement, exhibiting bare soil or sparse vegetation subject to vegetation management pursuant to Chapter 15.32 (specifically, Section 504.1.2 Vegetation) of the City of Chino Municipal Code. Vegetated areas subject to vegetation management consist of recently sprouted non-native annual grasses and herbs such as ripgut brome (*Bromus diandrus*), spotted spurge (*Chamaesyce maculata*), Bermuda grass (*Cynodon dactylon*), Canadian horseweed (*Erigeron canadensis*), horehound (*Marrubium vulgare*), and Russian thistle (*Salsola tragus*). The only native species observed during the Project site visit was jimsonweed (*Datura wrightii*), velvet ash (*Fraxinus velutina*), and Northern California black walnut (*Juglans hindsii*). Large trees are scattered on the site and are often intermixed with tree tobacco (*Nicotiana glauca*) seedlings. The northwest corner of the Project site contained several large American century plants (*Agave americana*) and an unidentified five-foot tall columnar cactus.

3.1.2 Developed

Developed areas occur throughout the Project site and consist of multiple structures that include storage facilities and roofed animal pens with concrete pads. Developed areas account for 0.71 acre of the total 10.67-acre Project site.

3.2 GENERAL WILDLIFE

A wide variety of common wildlife species are expected to occur on the Project site. A general overview of those species expected to occur is described below. A compendium of wildlife species observed during this survey are included as Attachment C.

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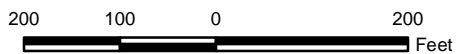


Aerial Source: ESRI 2010

Vegetation Types and Other Areas

Exhibit 5

4570 Francis Avenue, City of Chino



No amphibian species were observed during the survey and no potential habitat occurs within the Project site.

One reptile species, western fence lizard (*Sceloporus occidentalis*), was observed during the survey. Suitable habitat for reptile species occurs throughout the Project site. Other common reptile species are expected to occur on the Project site such as the southern alligator lizard (*Elgaria multicarinata*), red coachwhip (*Coluber flagellum piceus*), common kingsnake (*Lampropeltis californiae*), California striped racer (*Coluber [Masticophis] lateralis lateralis*), gopher snake (*Pituophis catenifer*), and western rattlesnake (*Crotalus oreganus*).

Bird species observed or expected to occur on the Project site include, but are not limited to, turkey vulture (*Cathartes aura*), red-tailed hawk (*Buteo jamaicensis*), American kestrel (*Falco sparverius*), mourning dove (*Zenaida macroura*), great horned owl (*Bubo virginianus*), Anna's hummingbird (*Calypte anna*), rufous hummingbird (*Selasphorus rufus*), acorn woodpecker (*Melanerpes formicivorus*), northern flicker (*Colaptes auratus*), Cassin's kingbird (*Tyrannus vociferans*), common raven (*Corvus corax*), western scrub jay (*Aphelocoma californica*), California thrasher (*Toxostoma redivivum*), Bullock's oriole (*Icterus bullockii*), common raven (*Corvus corax*), bushtit (*Psaltriparus minimus*), Bewick's wren (*Thryomanes bewickii*), northern mockingbird (*Mimus polyglottos*), European starling (*Sturnus vulgaris*), Western bluebird (*Sialia mexicana*), California towhee (*Pipilo crissalis*), white-crowned sparrow (*Zonotrichia leucophrys*), house sparrow (*Passer domesticus*), house finch (*Haemorhous mexicanus*), Lawrence's goldfinch (*Spinus lawrencei*), and lesser goldfinch (*Carduelis psaltria*).

No mammals were detected during the survey. Common mammal species expected to occur on the Project site include, but are not limited to; California ground squirrel (*Spermophilus beecheyi*), eastern fox squirrel (*Sciurus niger*), western gray squirrel (*Sciurus grisesus*), desert cottontail (*Sylvilagus audubonii*), northern raccoon (*Procyon lotor*), and coyote (*Canis latrans*). Common bat species expected to forage or roost in the study area include the big brown bat (*Eptesicus fuscus*) and California myotis (*Myotis californicus*).

3.3 SPECIAL STATUS VEGETATION TYPES

Various vegetation types are considered to be special status by State and federal resource agencies, academic institutions, and various conservation groups. Determination of the sensitivity level is based on the Nature Conservancy Heritage Program Status Ranks, which ranks vegetation types on a global and statewide basis according to the number and size of remaining occurrences and recognized threats.

No special status vegetation types were noted on the Project site.

3.4 SPECIAL STATUS PLANT AND WILDLIFE SPECIES

Plants or wildlife may be considered to have "special status" due to declining populations, vulnerability to habitat change, or restricted distributions. Certain special status species have been listed as Threatened or Endangered under the California and/or Federal Endangered Species Acts. CNPS and CNDDDB inventories of special status plant and wildlife species in the region are provided in Attachment D.

3.4.1 Special Status Plants

Several special status plant species are known to occur or have historically occurred in the vicinity of the Project site. One of these species, slender-horned spineflower (*Dodecahema leptoceras*), is a federal and State-listed Endangered species, though no potentially suitable habitat for this species was observed on the Project site.

In addition to species formally listed by the USFWS and the CDFW, multiple species reported in the vicinity of the Project site are described by the CNPS' California Rare Plant Rank (CRPR) as List 1B and List 2B plant species. List 1B species are those species that are "Rare, Threatened, or Endangered in California and Elsewhere". List 2B species are "Endangered in California". Impacts to species in either of these categories, as listed in Attachment E, may be considered significant according to Section 15380 of the California Environmental Quality Act (CEQA) Guidelines depending on the size of the population, if present, relative to populations in the region. List 1B or List 2B plant species that have been noted in the vicinity of the Project site include chaparral sand-verbena (*Abronia villosa* var. *aurita*), San Gabriel manzanita (*Arctostaphylos glandulosa* ssp. *gabrielensis*), Braunton's milk-vetch (*Astragalus brauntonii*), Coulter's saltbush (*Atriplex coulteri*), Davidson's saltscale (*Atriplex serenana* var. *davidsonii*), Nevin's barberry (*Berberis nevinii*), thread-leaved brodiaea (*Brodiaea filifolia*), round-leaved filaree (*California macrophylla*), slender mariposa lily (*Calochortus clavatus* var. *gracilis*), intermediate mariposa lily (*Calochortus weedii* var. *intermedius*), southern tarplant (*Centromadia parryi* ssp. *australis*), smooth tarplant (*Centromadia pungens* ssp. *laevis*), Parry's spineflower (*Chorizanthe parryi* var. *parryi*), California sawgrass (*Cladium californicum*), San Gabriel Mountains dudleya (*Dudleya densiflora*), many-stemmed dudleya (*Dudleya multicaulis*), Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*), Johnston's buckwheat (*Eriogonum microthecum*), hot springs fimbriistylis (*Fimbristylis thermalis*), mesa horkelia (*Horkelia cuneata* ssp. *puberula*), California satintail (*Imperata brevifolia*), lemon lily (*Lilium parryi*), San Gabriel linanthus (*Linanthus concinnus*), Jokerst's monardella (*Monardella australis* ssp. *jokerstii*), Hall's monardella (*Monardella macrantha* ssp. *hallii*), prostrate vernal pool navarretia (*Navarretia prostrata*), woolly mountain-parsley (*Oreonana vestita*), Rock Creek broomrape (*Orobanche valida* ssp. *valida*), San Bernardino grass-of-Parnassus (*Parnassia cirrata* var. *cirrata*), Brand's star phacelia (*Phacelia stellaris*), white rabbit-tobacco (*Pseudognaphalium leucocephalum*), Sanford's arrowhead (*Sagittaria sanfordii*), chaparral ragwort (*Senecio aphanactis*), salt spring checkerbloom (*Sidalcea neomexicana*), San Bernardino aster (*Symphyotrichum defoliatum*), Greata's aster (*Symphyotrichum greatae*), Sonoran maiden fern (*Thelypteris puberula* var. *sonorensis*), rigid fringedpod (*Thysanocarpus rigidus*), and grey-leaved violet (*Viola pinetorum* var. *grisea*). No potentially suitable habitat was observed on the Project site for any of these species.

CRPR List 3 and List 4 species are not considered Project constraints and, typically, impacts on these species are considered less than significant and do not require mitigation. Three List 3 species are known to occur in the Project vicinity: lucky morning-glory (*Calystegia felix*), Lewis' evening-primrose (*Camissoniopsis lewisii*), and Perison's spring beauty (*Calytonia lanceolate* var. *peirsonii*). Thirty List 4 species are known to occur in the Project vicinity: Parish's oxytheca (*Acanthoscyphus parishii* var. *parishii*), Watson's amaranth (*Amaranthus watsonii*), California androsace (*Androsace elongata* ssp. *acuta*), western spleenwort (*Asplenium vespertinum*), crested milk-vetch (*Astragalus bicristatus*), Catalina mariposa lily (*Calochortus catalinae*), Plummer's mariposa lily (*Calochortus plummerae*), Peninsular spineflower (*Chorizanthe leptotheca*), small-flowered morning-glory (*Convolvulus simulans*), paniculate tarplant (*Deinandra paniculata*), northern limestone buckwheat (*Eriogonum microthecum* var. *alpinum*), alpine sulfur-flowered buckwheat (*Eriogonum umbellatum* var. *minus*), San Antonio Canyon bedstraw (*Galium angustifolium* ssp. *gabrielense*), Johnston's bedstraw (*Galium johnstonii*), urn-flowered alumroot (*Heuchera caespitosa*), Southern California black walnut (*Juglans californica*), Duran's rush (*Juncus duranii*), fragrant pitcher sage (*Lepechinia fragrans*), Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*), ocellated Humboldt lily (*Lilium humboldtii* ssp. *ocellatum*), rock monardella (*Monardella saxicola*), California muhly (*Muhlenbergia californica*), Hubby's phacelia (*Phacelia hubbyi*), Mojave phacelia (*Phacelia mohavensis*), San Gabriel oak (*Quercus durata* var. *gabrielensis*), Engelmann oak (*Quercus engelmannii*), Coulter's matilija poppy (*Romneya coulteri*), San Gabriel ragwort (*Senecio astephanus*), chickweed oxytheca (*Sidotheca caryophylloides*), and Laguna Mountains jewelflower (*Streptanthus bernardinus*). No potentially suitable habitat was observed on the Project site for these species.

A summary of special status plant species and their likelihood for occurrence on the Project site is provided in Attachment E. Note that these species are listed alphabetically according to their scientific name.

3.4.2 Special Status Wildlife

Multiple special status wildlife species are known to occur in the region (CDFW 2016). Eleven of these species are federally and/or State-listed Threatened or Endangered species: Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*), Santa Ana sucker (*Catostomus santaanae*), arroyo toad (*Anaxyrus californicus*), Swainson's hawk (*Buteo swainsoni*), southern mountain yellow-legged frog (*Rana muscosa*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), southwestern willow flycatcher (*Empidonax traillii extimus*), Southwestern willow flycatcher (*Empidonax traillii extimus*), least Bell's vireo (*Vireo bellii pusillus*), San Bernardino kangaroo rat (*Dipodomys merriami parvus*), and Stephens' kangaroo rat (*Dipodomys stephensi*). No potentially suitable habitat was observed on the Project site for any of these species.

A summary of special status wildlife species known to occur in the Project region is provided in Attachment F along with their potential to occur on the Project site. Note that these species are grouped by taxon and listed alphabetically according to their scientific name.

3.5 WILDLIFE MOVEMENT

The Project site is located in an urbanized setting, surrounded by residential development. Though regional wildlife corridors exist in the general vicinity of the Project site (San Gabriel Mountains, Jurupa Hills, La Sierra Hills, Puente Hills and Chino Hills), the development of the Project site is not located in close proximity and is, therefore, not expected to have an impact on regional wildlife movement.

3.6 BURROWING OWL HABITAT ASSESSMENT

Several factors in combination are likely to explain burrowing owl distribution on local scales, including vegetation density, availability of suitable prey, availability of burrows or suitable soil, and disturbance (primarily from humans). In a few areas, the threat of predators (e.g., coyotes (*Canis latrans*) and domestic cats (*Felis catus*)) may be an important limiting factor. Additional threats include mortality caused directly by humans (including vehicle collisions), excessive disturbance by humans and pets, pesticide use (resulting in death, loss of prey populations, and loss of burrow-constructing animals), habitat degradation and loss, and predatory behavior by nonnative animals, especially domestic pets. Burrowing owls are greatly reduced in numbers in coastal Southern California as compared to historical populations (Garrett and Dunn 1981; Unitt 2004), with the species now nearly extirpated from many areas (Hamilton and Willick 1996). Potentially suitable habitat is defined by CDFG (2012) as areas that generally include, but are not limited to, short or sparse vegetation (at least at some time of year), presence of burrows, burrow surrogates or presence of fossorial mammal dens, well-drained soils, and abundant and available prey.

A habitat assessment following CDFG (2012) protocol was performed within areas of potentially suitable habitat. Site conditions during the habitat assessment consisted of partially cloudy skies and warm temperatures (72–80°F) with calm conditions (2–5 mile per hour winds). Bare soil was observed on the Project site; however, the areas containing bare soil are exposed to regular disturbance from humans and domestic animals and are therefore not suitable burrowing owl habitat. Due to the close proximity to residential housing and domestic animal activity, patches of weeds were observed on the Project site, but are surrounded by areas that appear to be regularly disturbed. A sufficient expanse of weedy areas to support burrowing owls does not exist on the

Project site. No crop, pasture land, utility land, annual and perennial grassland, desert, or scrubland was observed on the Project site. Additionally, while several burrows from fossorial mammals were observed on the Project site, none were >11 cm in diameter (height and width) and >150 cm in depth as defined in the CDFG (2012) protocol. No burrow surrogates were observed on the Project site. No indications of burrowing owl presence was observed on the Project site.

According to CNDDDB records, burrowing owls occur in the region of the Project site, but no burrowing owls have been detected within three miles of the site (CDFW 2016). Agricultural fields that currently support burrowing owl populations are located approximately three miles southeast of the Project site, though these areas are separated from the Project site by large complexes of industrial buildings and residential tracts. Although small patches of vacant lots with weedy vegetation exist in the immediate vicinity of the Project site, there is not sufficient open space to support roosting or nesting. The consistent high level of human activity and presence of domestic goats on the Project site are additional factors in preventing burrowing owls from using the site for roosting or nesting. Therefore, the site is not considered potentially suitable habitat for the burrowing owl and further surveys are not recommended.

3.7 JURISDICTIONAL WATERS

Streambed and wetland resources are usually under the jurisdiction of the USACE, the SWRCB, and the CDFW. Regulatory authority is granted to these agencies by the Federal Clean Water Act, California Porter-Cologne Act, and *California Fish and Game Code*. Impacts (e.g., discharges of fill or other material) to these resources or associated habitat would require permits from these agencies.

No jurisdictional streambed or wetland resources were observed on the Project site.

3.8 REGULATED TREES

Trees on the Project site consist of tree of heaven (*Ailanthus altissima*), blue gum (*Eucalyptus globulus*), cedar gum (*Eucalyptus gunnii*), velvet ash (*Fraxinus velutina*), Northern California walnut (*Juglans hindsii*), avocado (*Persea americana*), Canary Island date palm (*Phoenix canariensis*), Peruvian peppertree (*Schinus molle*), queen palm (*Syagrus romanzoffiana*), and Mexican fan palm (*Washingtonia robusta*). These trees are scattered throughout the Project site and were likely planted as part of remnant agricultural activities (e.g., orchards, livestock shade, wind breaks).

The Project site is under the City's jurisdiction; therefore, an arborist report shall be required for the removal of any trees as described in Section 2.5 (e.g., oak trees larger than 8 inches dbh, single trunk trees larger than 10 inches dbh, and multi-trunk trees greater than 12 inches dbh). No oak trees occur on the site; however, several of the trees described above are greater than 10 inches dbh and would require a removal permit.

4.0 RECOMMENDED MITIGATION MEASURES

The following is a list of recommended mitigation measures to ensure that the Project site is consistent with regulations protecting biological resources.

1. The Project Applicant shall obtain authorization from the City of Chino prior to removing any trees located on the Project site, as appropriate.
2. Because the various trees on the site provide nesting opportunities for birds, vegetation removal activities should be planned during the non-nesting season (generally September 16–January 31) to avoid impacts to nesting birds. If vegetation removal is planned during the nesting season, a qualified Biologist shall perform a nest survey to determine if impacts to active nests would occur. The monitoring biologist would provide guidance to the applicant to keep Project site activities in compliance with State and federal laws protecting nesting bird species.

5.0 REFERENCES

- American Ornithologists' Union (AOU). 1998. *Check-list of North American Birds* (7th ed). Shipman, VA: Buteo Books.
- Baker, R.J., L.C. Bradley, R.D. Bradley, J.W. Drago, M.D. Engstrom, R.S. Hoffmann, C.A. Jones, F. Reid, D.W. Rice, and C. Jones. 2003 (December). Revised Checklist of North American Mammals North of Mexico, 2003. *Occasional Papers* (No. 229). Waco, TX: Museum of Texas Tech University.
- Baldwin, B.G., D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken (Eds.). 2012. *The Jepson Manual: Vascular Plants of California* (Second ed.). Berkeley, CA: University of California Press.
- California Department of Fish and Wildlife (CDFW). 2016 (July). California Natural Diversity Database. Records of Occurrence for the USGS Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda 7.5-minute quadrangles. Sacramento, CA: CDFW, Natural Heritage Division.
- California Department of Fish and Game (CDFG). 2012 (March 7). *Staff Report on Burrowing Owl Mitigation*. Sacramento, CA: CDFG
- . 2010 (September). *List of Vegetation Alliances and Associations, Vegetation Classification and Mapping Program*. Sacramento, CA: CDFG.
- California Native Plant Society (CNPS). 2016. Locational Inventory of Rare and Endangered Vascular Plants of California. Records of Occurrence for the USGS Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda 7.5-minute quadrangles. Sacramento, CA: CNPS. <http://www.cnps.org/inventory>.
- Chino, City of. 2015 (June, last amended). *Chino Municipal Code* (Chapter 15.32, Fire Code). Tallahassee, FL: Municode Corporation for the City. https://www.municode.com/library/ca/chino/codes/code_of_ordinances?nodeId=TIT15B_UCO_CH15.32FICO.
- Garrett, K., and J. Dunn. 1981. *Birds of Southern California: Status and Distribution*. Los Angeles, CA: Los Angeles Audubon Society.
- Hamilton, R.A. and D.R. Willick. 1996. *The Birds of Orange County, California: Status and Distribution*. Irvine, CA: Sea and Sage Audubon Society.
- Stebbins, R.C. 2003. *A Field Guide to Western Reptiles and Amphibians* (3rd ed.). Boston, MA: Houghton-Mifflin Company.
- Weather Channel, The. 2016. *Monthly Averages for Chino, CA (91710)*. Atlanta, GA: Weather Channel Interactive, Inc. <https://weather.com/weather/monthly/l/91710:4:US>.
- Unitt, P. 2004. *San Diego County Bird Atlas*. Proceedings of the San Diego Society of Natural History, No. 39. San Diego, CA: San Diego Natural History Museum.
- U.S. Army Corps of Engineers (USACE). 2008. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*. (J.S. Wakeley, R.W. Lichvar, and C.V. Noble, Eds.). Vicksburg, MS: U.S. Army Engineer Research and Development Center.

ATTACHMENT A
SITE PHOTOGRAPHS



View 1. Taken from southwest corner, facing north. Showing concrete pads and the gas pump building.



View 2. Taken from northwest corner, facing southeast. Showing the main disturbed area with scattered ornamental trees

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-1





View 3. Taken from the north edge, facing south. Showing fencing along the edge of the site.



View 4. Taken from the south edge, facing north. Showing fencing along the edge of the site.

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-2





View 5. Taken from the southeast corner, facing northwest. Showing a developed area consisting of abandoned chicken coops.



View 6. Taken from the middle southwest corner, facing northwest. Showing a disturbed area with scattered ornamental trees and old chicken coops in the background.

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-3





View 7. Taken from the northeast corner, facing southwest. Showing the main disturbed area in the foreground and developed areas in the background.

Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-4



ATTACHMENT B
PLANT COMPENDIUM

**TABLE B-1
PLANT SPECIES OBSERVED
ON THE PROJECT SITE**

| Species |
|--|
| FLOWERING PLANTS |
| CLASS DICOTYLEDONES (DICOTS) |
| ANACARDIACEAE – SUMAC FAMILY |
| <i>Schinus molle</i> * Peruvian pepper tree |
| ASTERACEAE (COMPOSITAE) – SUNFLOWER FAMILY |
| <i>Conyza canadensis</i> * Canadian horseweed |
| CHENOPODIACEAE – GOOSEFOOT FAMILY |
| <i>Salsola tragus</i> * Russian thistle |
| EUPHORBIACEAE – SPURGE FAMILY |
| <i>Euphorbia maculata</i> * spotted spurge |
| JUGLANDACEAE – WALNUT FAMILY |
| <i>Juglans hindsii</i> Northern California black walnut |
| LAMIACEAE – MINT FAMILY |
| <i>Marrubium vulgare</i> * horehound |
| MYRTACEAE – MYRTLE FAMILY |
| <i>Eucalyptus globulus</i> * blue gum |
| <i>Eucalyptus gunnii</i> * cider gum |
| OLERACEAE – OLIVE FAMILY |
| <i>Fraxinus velutina</i> velvet ash |
| SIMAROUBACEAE – QUASSIA FAMILY |
| <i>Ailanthus altissima</i> * tree of heaven |
| SOLANACEAE – NIGHTSHADE FAMILY |
| <i>Datura wrightii</i> jimsonweed |
| ROSACEAE – ROSE FAMILY |
| <i>Pyracantha</i> sp.* firethorn or pyracantha |
| CLASS MONOCOTYLEDONES (MONOCOTS) |
| AGAVACEAE – AGAVE FAMILY |
| <i>Agave americana</i> * century plant |
| ARECACEAE (PALMAE) – PALM FAMILY |
| <i>Phoenix canariensis</i> * Canary Island palm |
| <i>Syagrus romanzoffiana</i> * Queen palm |

**TABLE B-1
PLANT SPECIES OBSERVED
ON THE PROJECT SITE**

| Species |
|---|
| <i>Washingtonia robusta</i> * Mexican fan palm |
| <i>POACEAE [GRAMINEAE] – GRASS FAMILY</i> |
| <i>Bromus diandrus</i> * ripgut brome |
| <i>Bromus madritensis</i> * foxtail chess |
| <i>Cynodon dactylon</i> * Bermuda grass |
| * non-native species |

ATTACHMENT C
WILDLIFE COMPENDIUM

**TABLE C-1
WILDLIFE SPECIES OBSERVED WITHIN
THE PROJECT SITE**

| Species |
|--|
| Lizards |
| <i>PHRYNOSOMATIDAE</i> - SPINY LIZARD FAMILY |
| <i>Sceloporus occidentalis</i> western fence lizard |
| Birds |
| <i>COLUMBIDAE</i> - PIGEON AND DOVE FAMILY |
| <i>Zenaida macroura</i> mourning dove |
| <i>TROCHILIDAE</i> - HUMMINGBIRD FAMILY |
| <i>Selasphorus rufus</i> rufous hummingbird |
| <i>CORVIDAE</i> - JAY AND CROW FAMILY |
| <i>Corvus corax</i> common raven |
| <i>MIMIDAE</i> - MOCKINGBIRD AND THRASHER FAMILY |
| <i>Mimus polyglottos</i> northern mockingbird |
| <i>STURNIDAE</i> - STARLING FAMILY |
| <i>Sturnus vulgaris</i> * European starling |
| <i>EMBERIZIDAE</i> - SPARROW FAMILY |
| <i>Melospiza crissalis</i> California towhee |
| <i>FRINGILLIDAE</i> - FINCH FAMILY |
| <i>Haemorhous mexicanus</i> house finch |
| <i>PASSERIDAE</i> - OLD WORLD SPARROW FAMILY |
| <i>Passer domesticus</i> * house sparrow |
| *=Non-native or invasive species |

ATTACHMENT D

CNDDB AND CNPS SPECIAL-STATUS SPECIES LIST

Query Summary:

Quad IS (Corona North (3311785) OR Cucamonga Peak (3411725) OR Glendora (3411727) OR Guasti (3411715) OR Mt. Baldy (3411726) OR Ontario (3411716) OR Prado Dam (3311786) OR San Dimas (3411717) OR Yorba Linda (3311787))

Print Close

CNDDDB Element Query Results

| Scientific Name | Common Name | Taxonomic Group | Element Code | Total Occs | Returned Occs | Federal Status | State Status | Global Rank | State Rank | CA Rare Plant Rank | Other Status | Habitats |
|--|--|-----------------|--------------|------------|---------------|----------------|--------------|-------------|------------|--------------------|---|---|
| <i>Abronia villosa</i> var. <i>aurita</i> | chaparral sand-verbena | Dicots | PDNYC010P1 | 81 | 2 | None | None | G5T2T3 | S2 | 1B.1 | BLM_S-Sensitive, USFS_S-Sensitive | Chaparral, Coastal scrub, Desert dunes |
| <i>Agelaius tricolor</i> | tricolored blackbird | Birds | ABPBXB0020 | 781 | 7 | None | None | G2G3 | S1S2 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern | Freshwater marsh, Marsh & swamp, Swamp, Wetland |
| <i>Aimophila ruficeps</i> <i>canescens</i> | southern California rufous-crowned sparrow | Birds | ABPBX91091 | 197 | 5 | None | None | G5T3 | S2S3 | null | CDFW_WL-Watch List | Chaparral, Coastal scrub |
| <i>Ammodramus savannarum</i> | grasshopper sparrow | Birds | ABPBXA0020 | 19 | 1 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Valley & foothill grassland |
| <i>Anaxyrus californicus</i> | arroyo toad | Amphibians | AAABB01230 | 135 | 1 | Endangered | None | G2G3 | S2S3 | null | CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered | Desert wash, Riparian scrub, Riparian woodland, South coast flowing waters, South coast standing waters |
| <i>Anniella pulchra</i> <i>pulchra</i> | silvery legless lizard | Reptiles | ARACC01012 | 96 | 3 | None | None | G3G4T3T4Q | S3 | null | CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Chaparral, Coastal dunes, Coastal scrub |
| <i>Antrozous pallidus</i> | pallid bat | Mammals | AMACC10010 | 403 | 3 | None | None | G5 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority | Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland |
| <i>Aquila chrysaetos</i> | golden eagle | Birds | ABNKC22010 | 312 | 3 | None | None | G5 | S3 | null | BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, CDFW_WL-Watch List, IUCN_LC-Least | Broadleaved upland forest, Cismontane woodland, Coastal prairie, Great Basin grassland, Great Basin scrub, Lower montane coniferous forest, Pinon & juniper |

| | | | | | | | | | | | | | |
|---|--------------------------------|------------|------------|------|----|------------|------------|--------|------|------|--|--|---|
| | | | | | | | | | | | | Concern, USFWS_BCC-Birds of Conservation Concern | woodlands, Upper montane coniferous forest, Valley & foothill grassland |
| Arctostaphylos glandulosa ssp. gabrielensis | San Gabriel manzanita | Dicots | PDERI042P0 | 35 | 4 | None | None | G5T2 | S2 | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral | |
| Artemisiospiza belli belli | Bell's sage sparrow | Birds | ABPBX97021 | 58 | 1 | None | None | G5T2T4 | S2? | null | CDFW_WL-Watch List, USFWS_BCC-Birds of Conservation Concern | Chaparral, Coastal scrub | |
| Asio otus | long-eared owl | Birds | ABNSB13010 | 43 | 1 | None | None | G5 | S3? | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Cismontane woodland, Great Basin scrub, Riparian forest, Riparian woodland, Upper montane coniferous forest | |
| Aspidoscelis hyperythra | orangethroat whiptail | Reptiles | ARACJ02060 | 347 | 5 | None | None | G5 | S2S3 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern, USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub | |
| Aspidoscelis tigris stejnegeri | coastal whiptail | Reptiles | ARACJ02143 | 114 | 2 | None | None | G5T5 | S3 | null | CDFW_SSC-Species of Special Concern | null | |
| Astragalus brauntonii | Braunton's milk-vetch | Dicots | PDFAB0F1G0 | 42 | 1 | Endangered | None | G2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Chaparral, Coastal scrub, Limestone, Valley & foothill grassland | |
| Athene cunicularia | burrowing owl | Birds | ABNSB10010 | 1887 | 42 | None | None | G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern | Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland | |
| Atriplex coulteri | Coulter's saltbush | Dicots | PDCHE040E0 | 102 | 1 | None | None | G3 | S1S2 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden | Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley & foothill grassland | |
| Batrachoseps gabrieli | San Gabriel slender salamander | Amphibians | AAAAD02110 | 8 | 4 | None | None | G2G3 | S2S3 | null | IUCN_DD-Data Deficient, USFS_S-Sensitive | Talus slope | |
| Berberis nevinii | Nevin's barberry | Dicots | PDBER060A0 | 31 | 3 | Endangered | Endangered | G1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub | |
| Bombus crotchii | Crotch bumble bee | Insects | IIHYM24480 | 232 | 8 | None | None | G3G4 | S1S2 | null | null | null | |
| Brodiaea filifolia | thread-leaved brodiaea | Monocots | PMLIL0C050 | 131 | 6 | Threatened | Endangered | G2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland, Vernal pool, Wetland | |

| | | | | | | | | | | | | |
|--|---------------------------------------|----------|------------|------|----|------------|------------|--------|------|------|---|---|
| Buteo swainsoni | Swainson's hawk | Birds | ABNKC19070 | 2401 | 2 | None | Threatened | G5 | S3 | null | BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern | Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland |
| California Walnut Woodland | California Walnut Woodland | Woodland | CTT71210CA | 76 | 25 | None | None | G2 | S2.1 | null | null | Cismontane woodland |
| California macrophylla | round-leaved filaree | Dicots | PDGER01070 | 162 | 2 | None | None | G3? | S3? | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Cismontane woodland, Valley & foothill grassland |
| Callophrys mossii hidakupa | San Gabriel Mountains elfin butterfly | Insects | IILEPE2206 | 3 | 3 | None | None | G4T1T2 | S1S2 | null | USFS_S-Sensitive | Lower montane coniferous forest |
| Calochortus clavatus var. gracilis | slender mariposa-lily | Monocots | PMLIL0D096 | 105 | 5 | None | None | G4T2T3 | S2S3 | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Valley & foothill grassland |
| Calochortus plummerae | Plummer's mariposa-lily | Monocots | PMLIL0D150 | 230 | 33 | None | None | G4 | S4 | 4.2 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley & foothill grassland |
| Calochortus weedii var. intermedius | intermediate mariposa-lily | Monocots | PMLIL0D1J1 | 138 | 13 | None | None | G3G4T2 | S2 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Valley & foothill grassland |
| Calystegia felix | lucky morning-glory | Dicots | PDCON040P0 | 9 | 6 | None | None | GHQ | SH | 3.1 | null | Meadow & seep, Riparian scrub |
| Campylorhynchus brunneicapillus sandiegensis | coastal cactus wren | Birds | ABPBG02095 | 151 | 3 | None | None | G5T3Q | S3 | null | CDFW_SSC-Species of Special Concern, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern | Coastal scrub |
| Canyon Live Oak Ravine Forest | Canyon Live Oak Ravine Forest | Riparian | CTT61350CA | 50 | 30 | None | None | G3 | S3.3 | null | null | Riparian forest |
| Catostomus santaanae | Santa Ana sucker | Fish | AFCJC02190 | 27 | 7 | Threatened | None | G1 | S1 | null | AFS_TH-Threatened, IUCN_VU-Vulnerable | Aquatic, South coast flowing waters |
| Centromadia pungens ssp. laevis | smooth tarplant | Dicots | PDAST4R0R4 | 117 | 2 | None | None | G3G4T2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Alkali playa, Chenopod scrub, Meadow & seep, Riparian woodland, Valley & foothill grassland, Wetland |
| Chaetodipus fallax fallax | northwestern San Diego pocket mouse | Mammals | AMAFD05031 | 94 | 5 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Chaparral, Coastal scrub |
| Chorizanthe parryi var. parryi | Parry's spineflower | Dicots | PDPGN040J2 | 127 | 6 | None | None | G3T3 | S3 | 1B.1 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland |
| Cladium | California | | | | | | | | | | USFS_S- | Alkali marsh, Freshwater |

| | | | | | | | | | | | | |
|---|---|------------|------------|------|---|------------|------------|------|------|------|--|---|
| <i>Emys marmorata</i> | western pond turtle | Reptiles | ARAAD02030 | 1159 | 7 | None | None | G3G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive | flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland |
| <i>Ensatina klauberi</i> | large-blotched salamander | Amphibians | AAAAD04013 | 11 | 1 | None | None | G2G3 | S3 | null | CDFW_WL-Watch List, USFS_S-Sensitive | null |
| <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> | Santa Ana River woollystar | Dicots | PDPLM03035 | 30 | 2 | Endangered | Endangered | G4T1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Coastal scrub |
| <i>Eriogonum microthecum</i> var. <i>johnstonii</i> | Johnston's buckwheat | Dicots | PDPGN083W5 | 7 | 2 | None | None | G5T2 | S2 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Limestone, Subalpine coniferous forest, Upper montane coniferous forest |
| <i>Eumops perotis californicus</i> | western mastiff bat | Mammals | AMACD02011 | 293 | 9 | None | None | G5T4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, WBWG_H-High Priority | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland |
| <i>Falco columbarius</i> | merlin | Birds | ABNKD06030 | 34 | 1 | None | None | G5 | S3S4 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern | Estuary, Great Basin grassland, Valley & foothill grassland |
| <i>Fimbristylis thermalis</i> | hot springs fimbriatylis | Monocots | PMCYP0B0N0 | 19 | 1 | None | None | G4 | S1S2 | 2B.2 | null | Meadow & seep, Wetland |
| <i>Gila orcuttii</i> | arroyo chub | Fish | AFCJB13120 | 49 | 4 | None | None | G2 | S2 | null | AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, South coast flowing waters |
| <i>Horkelia cuneata</i> var. <i>puberula</i> | mesa horkelia | Dicots | PDROS0W045 | 103 | 9 | None | None | G4T1 | S1 | 1B.1 | USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub |
| <i>Icteria virens</i> | yellow-breasted chat | Birds | ABPBX24010 | 87 | 1 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Riparian forest, Riparian scrub, Riparian woodland |
| <i>Imperata brevifolia</i> | California satintail | Monocots | PMPOA3D020 | 31 | 1 | None | None | G3 | S3 | 2B.1 | SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Meadow & seep, Mojavean desert scrub, Riparian scrub, Wetland |
| <i>Lampropeltis zonata</i> (<i>parvirubra</i>) | California mountain kingsnake (San Bernardino population) | Reptiles | ARADB19062 | 9 | 1 | None | None | G4G5 | S2? | null | BLM_S-Sensitive, CDFW_WL-Watch List, IUCN_LC-Least Concern, USFS_S-Sensitive | Chaparral, Lower montane coniferous forest, Talus slope |
| <i>Lasiurus cinereus</i> | hoary bat | Mammals | AMACC05030 | 235 | 5 | None | None | G5 | S4 | null | IUCN_LC-Least Concern, WBWG_M-Medium | Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North |

| | | | | | | | | | | | | |
|---|-----------------------------------|------------|------------|-----|----|------|------|--------|------|------|--|---|
| | | | | | | | | | | | Priority | coast coniferous forest |
| <i>Lasiurus xanthinus</i> | western yellow bat | Mammals | AMACC05070 | 57 | 4 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_H-High Priority | Desert wash |
| <i>Lepidium virginicum</i> var. <i>robinsonii</i> | Robinson's pepper-grass | Dicots | PDBRA1M114 | 142 | 12 | None | None | G5T3 | S3 | 4.3 | null | Chaparral, Coastal scrub |
| <i>Lepus californicus bennettii</i> | San Diego black-tailed jackrabbit | Mammals | AMAEB03051 | 102 | 1 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| <i>Lilium parryi</i> | lemon lily | Monocots | PMLIL1A0J0 | 138 | 2 | None | None | G3 | S3 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Meadow & seep, Riparian forest, Upper montane coniferous forest, Wetland |
| <i>Linanthus concinnus</i> | San Gabriel linanthus | Dicots | PDPLM090D0 | 31 | 4 | None | None | G3 | S3 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Upper montane coniferous forest |
| <i>Lithobates pipiens</i> | northern leopard frog | Amphibians | AAABH01170 | 22 | 1 | None | None | G5 | S2 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Freshwater marsh, Great Basin flowing waters, Great Basin standing waters, Marsh & swamp, Wetland |
| <i>Monardella australis</i> ssp. <i>jokerstii</i> | Jokerst's monardella | Dicots | PDLAM18112 | 3 | 2 | None | None | G4T1 | S1 | 1B.1 | USFS_S-Sensitive | Chaparral, Lower montane coniferous forest |
| <i>Monardella macrantha</i> ssp. <i>hallii</i> | Hall's monardella | Dicots | PDLAM180E1 | 38 | 3 | None | None | G5T3 | S3 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley & foothill grassland |
| <i>Muhlenbergia californica</i> | California muhly | Monocots | PMPOA480A0 | 5 | 1 | None | None | G4 | S4 | 4.3 | null | Chaparral, Coastal scrub, Lower montane coniferous forest, Meadow & seep |
| <i>Myotis yumanensis</i> | Yuma myotis | Mammals | AMACC01020 | 260 | 2 | None | None | G5 | S4 | null | BLM_S-Sensitive, IUCN_LC-Least Concern, WBWG_LM-Low-Medium Priority | Lower montane coniferous forest, Riparian forest, Riparian woodland, Upper montane coniferous forest |
| <i>Navarretia prostrata</i> | prostrate vernal pool navarretia | Dicots | PDPLM0C0Q0 | 60 | 1 | None | None | G2 | S2 | 1B.1 | null | Coastal scrub, Meadow & seep, Valley & foothill grassland, Vernal pool, Wetland |
| <i>Neotoma lepida intermedia</i> | San Diego desert woodrat | Mammals | AMAFF08041 | 115 | 6 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| <i>Nyctinomops femorosaccus</i> | pocketed free-tailed bat | Mammals | AMACD04010 | 90 | 2 | None | None | G4 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_M-Medium Priority | Joshua tree woodland, Pinon & juniper woodlands, Riparian scrub, Sonoran desert scrub |
| | | | | | | | | | | | CDFW_SSC-Species of Special Concern, | |

| | | | | | | | | | | | | |
|-------------------------------------|--------------------------------------|------------|------------|-----|----|------------|------------|---------|------|------|---|--|
| Nyctinomops macrotis | big free-tailed bat | Mammals | AMACD04020 | 32 | 1 | None | None | G5 | S3 | null | IUCN_LC-Least Concern, WBWG_MH-Medium-High Priority | null |
| Oreonana vestita | woolly mountain-parsley | Dicots | PDAPI1G030 | 40 | 8 | None | None | G3 | S3 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest |
| Orobanche valida ssp. valida | Rock Creek broomrape | Dicots | PDORO040G2 | 12 | 2 | None | None | G4T2 | S2 | 1B.2 | USFS_S-Sensitive | Chaparral, Pinon & juniper woodlands |
| Ovis canadensis nelsoni | desert bighorn sheep | Mammals | AMALE04013 | 45 | 2 | None | None | G4T4 | S3 | null | BLM_S-Sensitive, CDFW_FP-Fully Protected, USFS_S-Sensitive | Alpine, Alpine dwarf scrub, Chaparral, Chenopod scrub, Great Basin scrub, Mojavean desert scrub, Montane dwarf scrub, Pinon & juniper woodlands, Riparian woodland, Sonoran desert scrub |
| Perognathus longimembris brevinasus | Los Angeles pocket mouse | Mammals | AMAFD01041 | 49 | 5 | None | None | G5T1T2 | S1S2 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| Phacelia stellaris | Brand's star phacelia | Dicots | PDHYD0C510 | 15 | 1 | None | None | G1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Coastal dunes, Coastal scrub |
| Phrynosoma blainvillii | coast horned lizard | Reptiles | ARACF12100 | 731 | 12 | None | None | G3G4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon & juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland |
| Polioptila californica californica | coastal California gnatcatcher | Birds | ABPBJ08081 | 814 | 35 | Threatened | None | G4G5T2Q | S2 | null | CDFW_SSC-Species of Special Concern, NABCI_YWL-Yellow Watch List | Coastal bluff scrub, Coastal scrub |
| Pseudognaphalium leucocephalum | white rabbit-tobacco | Dicots | PDAST440C0 | 15 | 2 | None | None | G4 | S2 | 2B.2 | null | Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland |
| Rana muscosa | southern mountain yellow-legged frog | Amphibians | AAABH01330 | 186 | 5 | Endangered | Endangered | G1 | S1 | null | CDFW_WL-Watch List, IUCN_EN-Endangered, USFS_S-Sensitive | Aquatic |
| Rhaphiomidas terminatus abdominalis | Delhi Sands flower-loving fly | Insects | IDIP05021 | 13 | 3 | Endangered | None | G1T1 | S1 | null | null | Interior dunes |
| Rhinichthys osculus ssp. 3 | Santa Ana speckled dace | Fish | AFCJB3705K | 14 | 3 | None | None | G5T1 | S1 | null | AFS_TH-Threatened, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, South coast flowing waters |
| Riversidian Alluvial Fan Sage Scrub | Riversidian Alluvial Fan Sage Scrub | Scrub | CTT32720CA | 30 | 8 | None | None | G1 | S1.1 | null | null | Coastal scrub |
| Sagittaria sanfordii | Sanford's arrowhead | Monocots | PMALI040Q0 | 93 | 1 | None | None | G3 | S3 | 1B.2 | BLM_S-Sensitive | Marsh & swamp, Wetland |

| | | | | | | | | | | | | |
|---|---|---------------|------------|-----|----|------|------|------|------|------|--|--|
| Salvadora hexalepis virgultea | coast patch-nosed snake | Reptiles | ARADB30033 | 22 | 1 | None | None | G5T4 | S2S3 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| Senecio aphanactis | chaparral ragwort | Dicots | PDAST8H060 | 47 | 1 | None | None | G3 | S2 | 2B.2 | null | Chaparral, Cismontane woodland, Coastal scrub |
| Setophaga petechia | yellow warbler | Birds | ABPBX03010 | 51 | 1 | None | None | G5 | S3S4 | null | CDFW_SSC-Species of Special Concern, USFWS_BCC-Birds of Conservation Concern | Riparian forest, Riparian scrub, Riparian woodland |
| Sidalcea neomexicana | Salt Spring checkerbloom | Dicots | PDMAL110J0 | 15 | 2 | None | None | G4 | S2 | 2B.2 | USFS_S-Sensitive | Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland |
| Southern California Arroyo Chub/Santa Ana Sucker Stream | Southern California Arroyo Chub/Santa Ana Sucker Stream | Inland Waters | CARE2330CA | 4 | 3 | None | None | GNR | SNR | null | null | null |
| Southern Coast Live Oak Riparian Forest | Southern Coast Live Oak Riparian Forest | Riparian | CTT61310CA | 246 | 15 | None | None | G4 | S4 | null | null | Riparian forest |
| Southern Cottonwood Willow Riparian Forest | Southern Cottonwood Willow Riparian Forest | Riparian | CTT61330CA | 111 | 3 | None | None | G3 | S3.2 | null | null | Riparian forest |
| Southern Sycamore Alder Riparian Woodland | Southern Sycamore Alder Riparian Woodland | Riparian | CTT62400CA | 230 | 19 | None | None | G4 | S4 | null | null | Riparian woodland |
| Southern Willow Scrub | Southern Willow Scrub | Riparian | CTT63320CA | 45 | 1 | None | None | G3 | S2.1 | null | null | Riparian scrub |
| Streptanthus bernardinus | Laguna Mountains jewelflower | Dicots | PDBRA2G060 | 22 | 2 | None | None | G3G4 | S3S4 | 4.3 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Lower montane coniferous forest, Upper montane coniferous forest |
| Symphyotrichum defoliatum | San Bernardino aster | Dicots | PDASTE80C0 | 76 | 4 | None | None | G2 | S2 | 1B.2 | BLM_S-Sensitive, USFS_S-Sensitive | Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Valley & foothill grassland |
| Symphyotrichum greatae | Greata's aster | Dicots | PDASTE80U0 | 56 | 8 | None | None | G2 | S2 | 1B.3 | BLM_S-Sensitive | Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland |
| Taricha torosa | Coast Range newt | Amphibians | AAAAF02032 | 65 | 12 | None | None | G4 | S4 | null | CDFW_SSC-Species of Special Concern | null |
| | | | | | | | | | | | | Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone coniferous forest, Coastal |

| | | | | | | | | | | | | |
|--------------------------------------|-------------------------|----------|------------|-----|----|------------|------------|---------|------|------|---|---|
| Taxidea taxus | American badger | Mammals | AMAJF04010 | 493 | 2 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Desert dunes, Desert wash, Freshwater marsh, Great Basin grassland, Great Basin scrub, Interior dunes, lone formation, Joshua tree woodland, Limestone, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Mojavean desert scrub, Montane dwarf scrub, North coast coniferous forest, Oldgrowth, Pavement plain, Redwood, Riparian forest, Riparian scrub, Riparian woodland, Salt marsh, Sonoran desert scrub, Sonoran thorn woodland, Ultramafic, Upper montane coniferous forest, Upper Sonoran scrub, Valley & foothill grassland |
| Thamnophis hammondi | two-striped gartersnake | Reptiles | ARADB36160 | 147 | 7 | None | None | G4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Marsh & swamp, Riparian scrub, Riparian woodland, Wetland |
| Thelypteris puberula var. sonorensis | Sonoran maiden fern | Ferns | PPTHE05192 | 21 | 1 | None | None | G5T3 | S2 | 2B.2 | USFS_S-Sensitive | Meadow & seep, Wetland |
| Thysanocarpus rigidus | rigid fringepod | Dicots | PDBRA2Q070 | 5 | 1 | None | None | G1G2 | S1 | 1B.2 | BLM_S-Sensitive, USFS_S-Sensitive | Pinon & juniper woodlands |
| Viola pinetorum var. grisea | grey-leaved violet | Dicots | PDVIO04431 | 59 | 1 | None | None | G4G5T3? | S3? | 1B.3 | null | Meadow & seep, Subalpine coniferous forest, Upper montane coniferous forest |
| Vireo bellii pusillus | least Bell's vireo | Birds | ABPBW01114 | 468 | 29 | Endangered | Endangered | G5T2 | S2 | null | IUCN_NT-Near Threatened, NABCI_YWL-Yellow Watch List | Riparian forest, Riparian scrub, Riparian woodland |
| Walnut Forest | Walnut Forest | Forest | CTT81600CA | 6 | 3 | None | None | G1 | S1.1 | null | null | Broadleaved upland forest |

Plant List

73 matches found. Click on scientific name for details

Search Criteria

Found in 9 Quads around 34117A6

| Scientific Name | Common Name | Family | Lifeform | Rare Plant Rank | State Rank | Global Rank |
|---|------------------------------|----------------|----------------------------|-----------------|------------|-------------|
| Abronia villosa var. aurita | chaparral sand-verbena | Nyctaginaceae | annual herb | 1B.1 | S2 | G5T2T3 |
| Acanthoscyphus parishii var. parishii | Parish's oxytheca | Polygonaceae | annual herb | 4.2 | S3S4 | G4?T3T4 |
| Amaranthus watsonii | Watson's amaranth | Amaranthaceae | annual herb | 4.3 | S3 | G4G5 |
| Androsace elongata ssp. acuta | California androsace | Primulaceae | annual herb | 4.2 | S3S4 | G5?T3T4 |
| Arctostaphylos glandulosa ssp. gabrielensis | San Gabriel manzanita | Ericaceae | perennial evergreen shrub | 1B.2 | S2 | G5T2 |
| Asplenium vesperinum | western spleenwort | Aspleniaceae | perennial rhizomatous herb | 4.2 | S4 | G4 |
| Astragalus bicristatus | crested milk-vetch | Fabaceae | perennial herb | 4.3 | S3 | G3 |
| Astragalus brauntonii | Braunton's milk-vetch | Fabaceae | perennial herb | 1B.1 | S2 | G2 |
| Atriplex coulteri | Coulter's saltbush | Chenopodiaceae | perennial herb | 1B.2 | S1S2 | G3 |
| Atriplex serenana var. davidsonii | Davidson's saltscale | Chenopodiaceae | annual herb | 1B.2 | S1 | G5T1 |
| Berberis nevini | Nevin's barberry | Berberidaceae | perennial evergreen shrub | 1B.1 | S1 | G1 |
| Brodiaea filifolia | thread-leaved brodiaea | Themidaceae | perennial bulbiferous herb | 1B.1 | S2 | G2 |
| California macrophylla | round-leaved filaree | Geraniaceae | annual herb | 1B.2 | S3? | G3? |
| Calochortus catalinae | Catalina mariposa lily | Liliaceae | perennial bulbiferous herb | 4.2 | S4 | G4 |
| Calochortus clavatus var. gracilis | slender mariposa lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S2S3 | G4T2T3 |
| Calochortus plummerae | Plummer's mariposa lily | Liliaceae | perennial bulbiferous herb | 4.2 | S4 | G4 |
| Calochortus weedii var. intermedius | intermediate mariposa lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S2 | G3G4T2 |
| Calystegia felix | lucky morning-glory | Convolvulaceae | annual rhizomatous herb | 3.1 | SH | GHQ |
| Camissoniopsis lewisii | Lewis' evening-primrose | Onagraceae | annual herb | 3 | S4 | G4 |
| Centromadia parryi ssp. australis | southern tarplant | Asteraceae | annual herb | 1B.1 | S2 | G3T2 |
| Centromadia pungens ssp. laevis | smooth tarplant | Asteraceae | annual herb | 1B.1 | S2 | G3G4T2 |
| Chorizanthe leptotheca | Peninsular spineflower | Polygonaceae | annual herb | 4.2 | S3 | G3 |
| Chorizanthe parryi var. parryi | Parry's spineflower | Polygonaceae | annual herb | 1B.1 | S3 | G3T3 |
| Cladium californicum | California sawgrass | Cyperaceae | perennial rhizomatous herb | 2B.2 | S2 | G4 |
| Claytonia lanceolata var. peirsonii | Peirson's spring beauty | Montiaceae | perennial herb | 3.1 | S2 | G5T2Q |
| Convolvulus simulans | small-flowered morning-glory | Convolvulaceae | annual herb | 4.2 | S4 | G4 |
| Deinandra paniculata | paniculate tarplant | Asteraceae | annual herb | 4.2 | S4 | G4 |
| Dodecahema leptoceras | slender-horned spineflower | Polygonaceae | annual herb | 1B.1 | S1 | G1 |
| Dudleya densiflora | San Gabriel Mountains | Crassulaceae | perennial herb | 1B.1 | S2 | G2 |

| | | | | | | |
|---|-----------------------------------|---------------|----------------------------|------|------|------|
| <u><i>Dudleya multicaulis</i></u> | many-stemmed dudleya | Crassulaceae | perennial herb | 1B.2 | S2 | G2 |
| <u><i>Eriastrum densifolium ssp. sanctorum</i></u> | Santa Ana River woollystar | Polemoniaceae | perennial herb | 1B.1 | S1 | G4T1 |
| <u><i>Eriogonum microthecum var. alpinum</i></u> | northern limestone buckwheat | Polygonaceae | perennial herb | 4.3 | S4 | G5T4 |
| <u><i>Eriogonum microthecum var. johnstonii</i></u> | Johnston's buckwheat | Polygonaceae | perennial deciduous shrub | 1B.3 | S2 | G5T2 |
| <u><i>Eriogonum umbellatum var. minus</i></u> | alpine sulfur-flowered buckwheat | Polygonaceae | perennial herb | 4.3 | S4 | G5T4 |
| <u><i>Fimbristylis thermalis</i></u> | hot springs fimbristylis | Cyperaceae | perennial rhizomatous herb | 2B.2 | S1S2 | G4 |
| <u><i>Galium angustifolium ssp. gabrielense</i></u> | San Antonio Canyon bedstraw | Rubiaceae | perennial herb | 4.3 | S3 | G5T3 |
| <u><i>Galium johnstonii</i></u> | Johnston's bedstraw | Rubiaceae | perennial herb | 4.3 | S4 | G4 |
| <u><i>Heuchera caespitosa</i></u> | urn-flowered alumroot | Saxifragaceae | perennial rhizomatous herb | 4.3 | S3 | G3 |
| <u><i>Horkelia cuneata var. puberula</i></u> | mesa horkelia | Rosaceae | perennial herb | 1B.1 | S1 | G4T1 |
| <u><i>Imperata brevifolia</i></u> | California satintail | Poaceae | perennial rhizomatous herb | 2B.1 | S3 | G3 |
| <u><i>Juglans californica</i></u> | Southern California black walnut | Juglandaceae | perennial deciduous tree | 4.2 | S3 | G3 |
| <u><i>Juncus duranii</i></u> | Duran's rush | Juncaceae | perennial rhizomatous herb | 4.3 | S3 | G3 |
| <u><i>Lepechinia fragrans</i></u> | fragrant pitcher sage | Lamiaceae | perennial shrub | 4.2 | S3 | G3 |
| <u><i>Lepidium virginicum var. robinsonii</i></u> | Robinson's pepper-grass | Brassicaceae | annual herb | 4.3 | S3 | G5T3 |
| <u><i>Lilium humboldtii ssp. ocellatum</i></u> | ocellated Humboldt lily | Liliaceae | perennial bulbiferous herb | 4.2 | S3 | G4T3 |
| <u><i>Lilium parryi</i></u> | lemon lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S3 | G3 |
| <u><i>Linanthus concinnus</i></u> | San Gabriel linanthus | Polemoniaceae | annual herb | 1B.2 | S3 | G3 |
| <u><i>Monardella australis ssp. iokerstii</i></u> | Jokerst's monardella | Lamiaceae | perennial rhizomatous herb | 1B.1 | S1 | G4T1 |
| <u><i>Monardella macrantha ssp. hallii</i></u> | Hall's monardella | Lamiaceae | perennial rhizomatous herb | 1B.3 | S3 | G5T3 |
| <u><i>Monardella saxicola</i></u> | rock monardella | Lamiaceae | perennial rhizomatous herb | 4.2 | S3 | G3 |
| <u><i>Muhlenbergia californica</i></u> | California muhly | Poaceae | perennial rhizomatous herb | 4.3 | S4 | G4 |
| <u><i>Navarretia prostrata</i></u> | prostrate vernal pool navarretia | Polemoniaceae | annual herb | 1B.1 | S2 | G2 |
| <u><i>Oreonana vestita</i></u> | woolly mountain-parsley | Apiaceae | perennial herb | 1B.3 | S3 | G3 |
| <u><i>Orobanche valida ssp. valida</i></u> | Rock Creek broomrape | Orobanchaceae | perennial herb (parasitic) | 1B.2 | S2 | G4T2 |
| <u><i>Parnassia cirrata var. cirrata</i></u> | San Bernardino grass-of-Parnassus | Parnassiaceae | perennial herb | 1B.3 | S2 | G5T2 |
| <u><i>Phacelia hubbyi</i></u> | Hubby's phacelia | Boraginaceae | annual herb | 4.2 | S4 | G4 |
| <u><i>Phacelia mohavensis</i></u> | Mojave phacelia | Boraginaceae | annual herb | 4.3 | S4 | G4Q |
| <u><i>Phacelia stellaris</i></u> | Brand's star phacelia | Boraginaceae | annual herb | 1B.1 | S1 | G1 |
| <u><i>Pseudognaphalium leucocephalum</i></u> | white rabbit-tobacco | Asteraceae | perennial herb | 2B.2 | S2 | G4 |
| <u><i>Quercus durata var. gabrielensis</i></u> | San Gabriel oak | Fagaceae | perennial evergreen shrub | 4.2 | S3 | G4T3 |
| <u><i>Quercus engelmannii</i></u> | Engelmann oak | Fagaceae | perennial deciduous tree | 4.2 | S3 | G3 |
| <u><i>Romneya coulteri</i></u> | Coulter's matilija poppy | Papaveraceae | perennial rhizomatous herb | 4.2 | S4 | G4 |

| | | | | | | |
|--|------------------------------|------------------|----------------------------|------|------|---------|
| Sagittaria sanfordii | Sanford's arrowhead | Alismataceae | perennial rhizomatous herb | 1B.2 | S3 | G3 |
| Senecio aphanactis | chaparral ragwort | Asteraceae | annual herb | 2B.2 | S2 | G3 |
| Senecio astephanus | San Gabriel ragwort | Asteraceae | perennial herb | 4.3 | S3 | G3 |
| Sidalcea neomexicana | salt spring checkerbloom | Malvaceae | perennial herb | 2B.2 | S2 | G4 |
| Sidotheca caryophylloides | chickweed oxytheca | Polygonaceae | annual herb | 4.3 | S4 | G4 |
| Streptanthus bernardinus | Laguna Mountains jewelflower | Brassicaceae | perennial herb | 4.3 | S3S4 | G3G4 |
| Symphyotrichum defoliatum | San Bernardino aster | Asteraceae | perennial rhizomatous herb | 1B.2 | S2 | G2 |
| Symphyotrichum greatae | Greata's aster | Asteraceae | perennial rhizomatous herb | 1B.3 | S2 | G2 |
| Thelypteris puberula var. sonorensis | Sonoran maiden fern | Thelypteridaceae | perennial rhizomatous herb | 2B.2 | S2 | G5T3 |
| Thysanocarpus rigidus | rigid fringedpod | Brassicaceae | annual herb | 1B.2 | S1 | G1G2 |
| Viola pinetorum var. grisea | grey-leaved violet | Violaceae | perennial herb | 1B.3 | S3? | G4G5T3? |

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ATTACHMENT E

SPECIAL STATUS PLANT SPECIES KNOWN TO OCCUR IN THE PROJECT REGION

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|--|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Acanthoscyphus parishii</i> var. <i>parishii</i> Parish's oxytheca | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Amaranthus watsonii</i> Watson's amaranth | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Androsace elongata</i> ssp. <i>acuta</i> California androsace | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i> San Gabriel manzanita | - | - | 1B.2 | Not expected to occur; |
| <i>Asplenium vesperinum</i> western spleenwort | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Astragalus bicristatus</i> crested milk-vetch | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Astragalus brauntonii</i> Braunton's milk-vetch | FE | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Atriplex coulteri</i> Coulter's saltbush | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Atriplex serenana</i> var. <i> davidsonii</i> Davidson's saltscale | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Berberis nevinii</i> Nevin's barberry | FE | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Brodiaea filifolia</i> thread-leaved brodiaea | FT | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>California macrophylla</i> round-leaved filaree | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus catalinae</i> Catalina mariposa lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus clavatus</i> var. <i>gracilis</i> slender mariposa lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus plummerae</i> Plummer's mariposa lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus weedii</i> var. <i>intermedius</i> intermediate mariposa lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calystegia felix</i> lucky morning-glory | - | - | 3.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Camissoniopsis lewisii</i> Lewis' evening-primrose | | | 3 | Not expected to occur; no potentially suitable habitat present |
| <i>Centromadia parryi</i> ssp. <i>australis</i> southern tarplant | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Chorizanthe leptotheca</i> Peninsular spineflower | | | 4.2 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|--|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Cladium californicum</i> California sawgrass | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Claytonia lanceolata</i> var. <i>peirsonii</i> Peirson's spring beauty | - | - | 3.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Convolvulus simulans</i> small-flowered morning-glory | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Deinandra paniculata</i> paniculate tarplant | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Dodecahema leptoceras</i> slender-horned spineflower | FE | SE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Dudleya densiflora</i> San Gabriel Mountains dudleya | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Dudleya multicaulis</i> many-stemmed dudleya | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> Santa Ana River woollystar | FE | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum microthecum</i> var. <i>alpinum</i> northern limestone buckwheat | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum microthecum</i> Johnston's buckwheat | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum umbellatum</i> var. <i>minus</i> alpine sulfur-flowered buckwheat | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Fimbristylis thermalis</i> hot springs fimbriatylis | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Galium angustifolium</i> ssp. <i>gabrielense</i> San Antonio Canyon bedstraw | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Galium johnstonii</i> Johnston's bedstraw | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Heuchera caespitosa</i> urn-flowered alumroot | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Horkelia cuneata</i> ssp. <i>puberula</i> mesa horkelia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Imperata brevifolia</i> California satintail | - | - | 2B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Juglans californica</i> Southern California black walnut | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Juncus duranii</i> Duran's rush | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Lepechinia fragrans</i> fragrant pitcher sage | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|---|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Lilium humboldtii</i> ssp. <i>ocellatum</i> ocellated Humboldt lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Lilium parryi</i> lemon lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Linanthus concinnus</i> San Gabriel linanthus | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella australis</i> ssp. <i>jokerstii</i> Jokerst's monardella | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella saxicola</i> rock monardella | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Muhlenbergia californica</i> California muhly | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Navarretia prostrata</i> prostrate vernal pool navarretia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Oreonana vestita</i> woolly mountain-parsley | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Orobanche valida</i> ssp. <i>valida</i> Rock Creek broomrape | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Parnassia cirrata</i> var. <i>cirrata</i> San Bernardino grass-of-Parnassus | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia hubbyi</i> Hubby's phacelia | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia mohavensis</i> Mojave phacelia | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia stellaris</i> Brand's star phacelia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Quercus durata</i> var. <i>gabrielensis</i> San Gabriel oak | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Quercus engelmannii</i> Engelmann oak | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Romneya coulteri</i> Coulter's matilija poppy | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Sagittaria sanfordii</i> Sanford's arrowhead | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Senecio aphanactis</i> chaparral ragwort | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Senecio astephanus</i> San Gabriel ragwort | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Sidalcea neomexicana</i> salt spring checkerbloom | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|---|--|---|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Sidotheca caryophylloides</i> chickweed oxytheca | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Streptanthus bernardinus</i> Laguna Mountains jewelflower | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Symphotrichum defoliatum</i> San Bernardino aster | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Symphotrichum greatae</i> Greata's aster | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Thelypteris puberula</i> var. <i>sonorensis</i> Sonoran maiden fern | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Thysanocarpus rigidus</i> rigid fringedpod | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Viola pinetorum</i> var. <i>grisea</i> grey-leaved violet | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| USFWS: U.S. Fish and Wildlife Service; CDFW: California Department of Fish and Wildlife; CRPR: California Rare Plant Rank | | | | |
| LEGEND | | | | |
| Federal (USFWS) | | State (CDFW) | | |
| FE Endangered | | SE Endangered, CE Candidate for listing as Endangered | | |
| CRPR List Categories | | | | |
| List 1B | Plants Rare, Threatened, or Endangered in California and Elsewhere | | | |
| List 2B | Plants Endangered in California | | | |
| List 3 | Plants that Need Review | | | |
| List 4 | Plants Uncommon in California | | | |
| CRPR Threat Rank Extensions | | | | |
| .1 | Seriously threatened in California | | | |
| .2 | Fairly threatened in California | | | |
| .3 | Not very endangered in California | | | |

ATTACHMENT F

SPECIAL STATUS WILDLIFE SPECIES KNOWN TO OCCUR IN THE PROJECT REGION

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|--|--------|-------|--|
| | USFWS | CDFW | |
| Invertebrates | | | |
| <i>Bombus crotchii</i> Crotch bumble bee | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Callophrys mossii hidakupa</i> San Gabriel Mountains elfin butterfly | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Diplectrona californica</i> California diplectronan caddisfly | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly | FE | - | Not expected to occur, no potentially suitable habitat present. |
| Fish | | | |
| <i>Catostomus santaanae</i> Santa Ana sucker | FT | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Gila orcuttii</i> Arroyo chub | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Rhinichthys osculus ssp. 3</i> Santa Ana speckled dace | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| Amphibians | | | |
| <i>Anaxyrus californicus</i> Arroyo toad | FE | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Batrachoseps gabrieli</i> San Gabriel slender salamander | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Ensatina klauberi</i> Large-blotched salamander | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Lithobates pipiens</i> northern leopard frog | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Rana muscosa</i> Southern mountain yellow-legged frog | FE | SE/WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Taricha torosa</i> Coast Range newt | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| Reptiles | | | |
| <i>Anniella pulchra</i> Silvery legless lizard | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aspidoscelis hyperythra</i> Orangethroat whiptail | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Aspidoscelis tigris stejnegeri</i> Coastal whiptail | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Coleonyx variegatus abbotti</i> San Diego banded gecko | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Crotalus ruber</i> Red-diamond rattlesnake | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Emys marmorata</i> Western pond turtle | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lampropeltis zonata (parvirubra)</i> California mountain kingsnake (San Bernardino population) | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Phrynosoma blainvillii</i> Coast (San Diego) horned lizard | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Salvadora hexalepis virgulata</i> Coast patch-nosed snake | - | SSC | Not expected to occur, no potentially suitable habitat present. |

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|---|--------|------|--|
| | USFWS | CDFW | |
| <i>Thamnophis hammondi</i> Two-striped garter snake | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| Birds | | | |
| <i>Agelaius tricolor</i> Tri-colored blackbird | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Ammodramus savannarum</i> Grasshopper sparrow | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aquila chrysaetos</i> Golden eagle | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Artemisiospiza belli belli</i> Bell's sage sparrow | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Asio otus</i> Long-eared owl | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Athene cunicularia</i> Burrowing owl | – | SSC | Not expected to occur; based on Phase II survey results including a lack of: potentially suitable burrows, sufficient habitat acreage, and connectivity to potentially suitable habitat. |
| <i>Buteo swainsoni</i> Swainson's hawk | – | ST | Not expected to occur, no potentially suitable habitat present. |
| <i>Campylorhynchus brunneicapillus sandiegensis</i> Coastal cactus wren | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo | FT | SE | Not expected to occur, no potentially suitable habitat present. |
| <i>Cypseloides niger</i> Black swift | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Elanus leucurus</i> White-tailed kite | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Empidonax traillii extimus</i> Southwestern willow flycatcher | FE | SE | Not expected to occur, no potentially suitable habitat present. |
| <i>Falco columbarius</i> Merlin | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Icteria virens</i> Yellow-breasted chat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Polioptila californica californica</i> Coastal California gnatcatcher | FT | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Setophaga petechial</i> Yellow warbler | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Vireo bellii pusillus</i> Least Bell's vireo | FE | SE | Not expected to occur, no potentially suitable habitat present. |
| Mammals | | | |
| <i>Antrozous pallidus</i> Pallid bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Chaetodipus fallax fallax</i> Northwestern San Diego pocket mouse | – | SSC | Not expected to occur, no potentially suitable habitat present. |

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|---|-------------------|---------------------|--|
| | USFWS | CDFW | |
| <i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat | FE | SSC | Not expected to occur, no potentially suitable habitat present |
| <i>Dipodomys stephensi</i> Stephens' kangaroo rat | FE | ST | Not expected to occur, no potentially suitable habitat present |
| <i>Eumops perotis californicus</i> Western mastiff bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lasiurus cinereus</i> Hoary bat | – | – | Not expected to occur, no potentially suitable habitat present. |
| <i>Lasiurus xanthinus</i> Western yellow bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Myotis yumanensis</i> Yuma myotis | – | – | Not expected to occur, no potentially suitable habitat present. |
| <i>Neotoma lepida intermedia</i> San Diego desert woodrat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Nyctinomops femorosaccus</i> Pocketed free-tailed bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Nyctinomops macrotis</i> Big free-tailed bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Ovis Canadensis nelson</i> Desert bighorn sheep | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Taxidea taxus</i> American badger | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| USFWS: U.S. Fish and Wildlife Service, CDFW: California Department of Fish and Wildlife | | | |
| LEGEND | | | |
| Federal (USFWS) | | State (CDFW) | |
| FE | Endangered | SE | Endangered |
| FT | Threatened | ST | Threatened |
| FC | Candidate Species | SSC | Species of Special Concern |
| | | WL | Watch List |
| | | FP | Fully Protected |
| Note: Scientific and common names for wildlife species follow the most current list of Special Animals (July 2016) available from the California Department of Fish and Game (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406). | | | |



Memorandum

Date: April 23, 2019

To: Konnie Dobрева, EPD Solutions, Inc.

From: Juan J. Hernandez

Subject: Updated Biological Assessment for Francis Avenue Residential Development Project located in the City of Chino, San Bernardino County, California

Pursuant to your request, Hernandez Environmental Services (HES) conducted a biological assessment to document existing biological conditions associated with development of the Francis Avenue Residential Development Project site, consisting of approximately 13.35 acres located at 4570 Francis Avenue in the City of Chino, San Bernardino County, California (Figures 1 and 2). The proposed Francis Avenue Residential Development Project would result in the construction of a residential development and associated infrastructure on the entire 13.35-acre site.

The project site is located within the City of Chino. The site encompasses an approximate 13.35-acre area generally located north of the intersection of Francis Avenue and Yorba Avenue. The project site consists of roofed animal pens, concrete pads, and a storage building. The site is relatively flat with an elevation of approximately 850 feet above mean sea level (amsl). A single soil type, Tujunga loamy sand, occurs on the site. The project site is surrounded by residential land uses to the east, south, and west.

A General Biological Resources Assessment was prepared for the project by Psomas in July of 2016 (Appendix B). According to the previous study, the project site consists of developed and disturbed areas. The developed areas consist of roofed animal pens, concrete pads, and a storage building. The disturbed areas consist of those areas with no concrete or pavement, exhibiting bare soil or sparse vegetation subject to vegetation management pursuant to Chapter 15.32 (specifically, Section 504.1.2 Vegetation) of the City of Chino Municipal Code. The disturbed vegetated areas are dominated by non-native annual grasses and herbs such as ripgut brome (*Bromus diandrus*), spotted spurge (*Chamaesyce maculata*), Bermuda grass (*Cynodon dactylon*), Canadian horseweed (*Erigeron canadensis*), horehound (*Marrubium vulgare*), and Russian thistle (*Salsola tragus*). The only native species observed onsite consisted of jimsonweed (*Datura wrightii*), velvet ash (*Fraxinus velutina*), and Northern California black walnut (*Juglans hindsii*). The previously prepared study determined that no potentially suitable habitat was observed on the site for any state or federally listed plant species or animal species. Further, it was determined that no jurisdictional streambed or wetland resources occur on the site.

The General Biological Resources Assessment prepared in 2016 also included a Phase II burrowing owl

(*Athene cunicularia*) habitat assessment following protocols approved by the CDFW (2012). The habitat assessment determined that although small patches of vacant lots with weedy vegetation exist in the immediate vicinity of the project site, there is not sufficient open space to support roosting or nesting. The consistent high level of human activity and presence of domestic goats on the site are additional factors in preventing burrowing owls from using the site for roosting or nesting. Therefore, the site is not considered potentially suitable habitat for the burrowing owl and further surveys were not recommended.

The 2016 General Biological Resources Assessment prepared for the project the trees scattered throughout the project site, consisting of tree of heaven (*Ailanthus altissima*), blue gum (*Eucalyptus globulus*), cider gum (*Eucalyptus gunnii*), velvet ash (*Fraxinus velutina*), Northern California walnut (*Juglans hindsii*), avocado (*Persea americana*), Canary Island date palm (*Phoenix canariensis*), Peruvian peppertree (*Schinus molle*), queen palm (*Syagrus romanzoffiana*), and Mexican fan palm (*Washingtonia robusta*), do provide potentially suitable habitat for nesting birds. In addition, the removal of these trees may require a tree removal permit be acquired from the City. Therefore, the following mitigation measures were recommended:

1. The Project Applicant shall obtain authorization from the City of Chino prior to removing any trees located on the Project site, as appropriate.
2. Because the various trees on the site provide nesting opportunities for birds, vegetation removal activities should be planned during the non-nesting season (generally September 16–January 31) to avoid impacts to nesting birds. If vegetation removal is planned during the nesting season, a qualified Biologist shall perform a nest survey to determine if impacts to active nests would occur. The monitoring biologist would provide guidance to the applicant to keep Project site activities in compliance with State and federal laws protecting nesting bird species.

On April 1, 2019, HES conducted a field survey of the approximate 13.35-acre project site. Ambient temperature during the field survey was 62° Fahrenheit, sunny, with 0-5 mile per hour winds from the northeast. The purpose of the field survey was to document the existing habitat conditions. The entire project site was surveyed. Linear transects approximately 50 feet apart were walked for 100 percent coverage. All species observed were recorded and Global Positioning System (GPS) way points were taken to delineate specific habitat types, species locations, state or federal waters, or any other information that would be useful for the assessment of the project site.

The project site appears to be regularly maintained for weed abatement purposes. The site was found to consist of developed and disturbed areas. Disturbed vegetated areas are dominated by non-native annual grasses and herbs, as described by the previously prepared General Biological Resources Assessment. No jurisdictional streambeds or wetlands occur on the site. Scattered trees present throughout the project site provide suitable habitat for nesting birds. General wildlife species observed during the field survey include western fence lizard (*Sceloporus occidentalis*), red-tailed hawk (*Buteo jamaicensis*), mourning dove (*Zenaida macroura*), Cassin's kingbird (*Tyrannus vociferans*), common raven (*Corvus corax*), northern

mockingbird (*Mimus polyglottos*), house sparrow (*Passer domesticus*), house finch (*Haemorhous mexicanus*), and desert cottontail (*Sylvilagus audubonii*). No sensitive plant or wildlife species were observed during the field survey.

Based upon the results of the field survey, the site conditions have not changed from those identified in the General Biological Resources Assessment prepared for the project by Psomas in July of 2016. Therefore, we concur with the findings and conclusions of the previous study.

If you have any questions about this report, please feel free to contact me at (909) 772-9009 with any further questions.

Enclosures:

Figure 1 – Location Map

Figure 2 – Vicinity Map

Appendix A – General Biological Resources Assessment prepared by Psomas, July 27, 2016.

Appendix B – Site Photographs

FIGURES



Figure 1
 Location Map
 Francis Avenue Residential Development
 Chino, San Bernardino County, CA

Legend

 Project Site Boundary



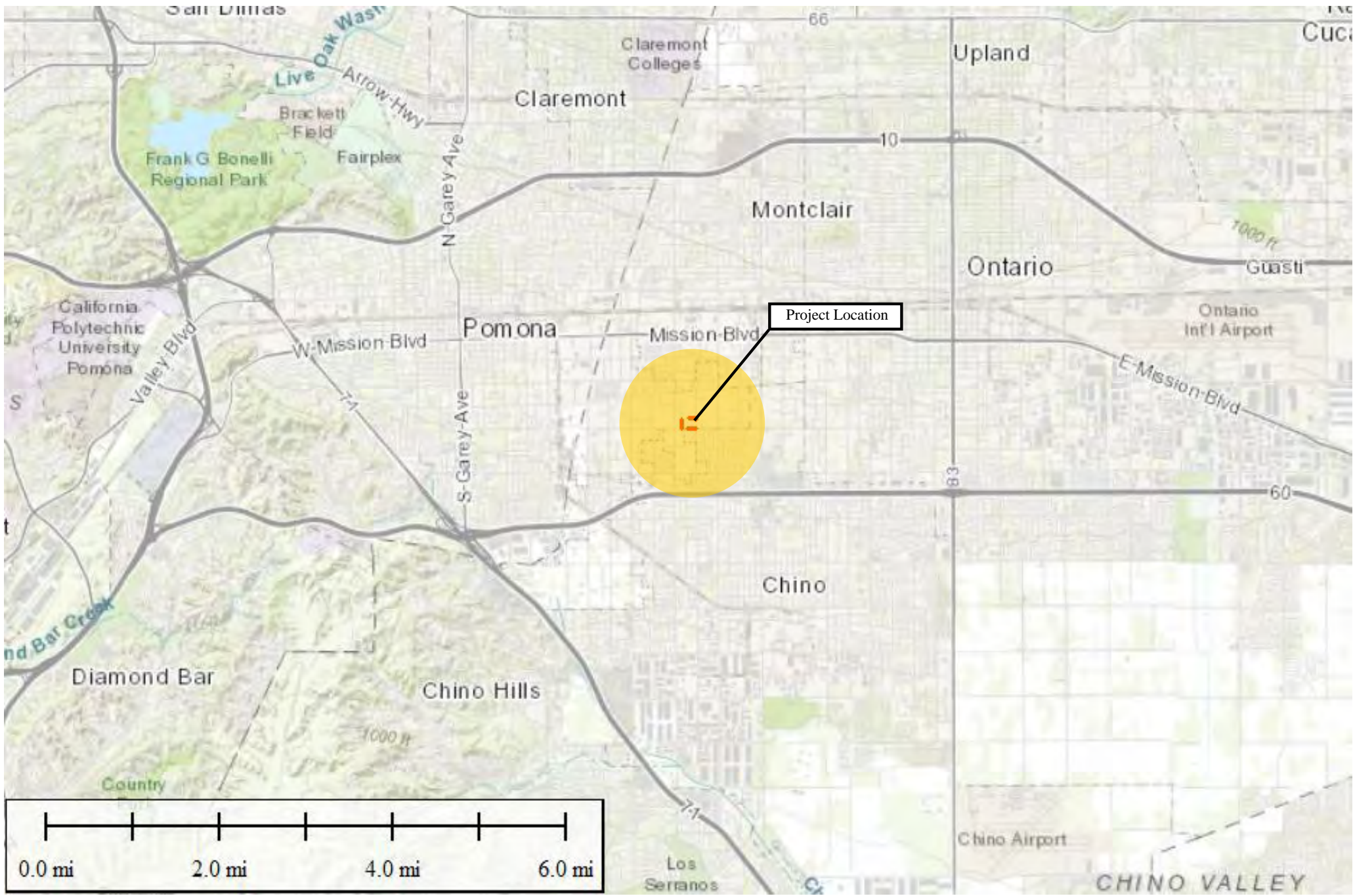


Figure 2
 Vicinity Map
 Francis Avenue Residential Development
 Chino, San Bernardino County, CA

Legend
 [Red dashed rectangle] Project Site Boundary



APPENDIX A

Draft – Client Review Only

**General Biological Resources
Assessment**

**Francis Avenue Residential
Development Project
Chino, California**

**Assessor's Parcel Numbers 1013-211-21
USGS Ontario 7.5' Quadrangle
Township 1 South, Range 8 West, Section 34**

Prepared for | Brett Crowder
Coastal Commercial Properties
1020 Second Street, Suite C
Encinitas, California 92024

Prepared by | Psomas
225 South Lake Street, Suite 1000
Pasadena, California 91101
T: (626) 351-2000 F: (626) 351-2030
Contact: David Hughes, Senior Project Manager

July 27, 2016

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ATTACHMENTS

- A Site Photos
- B Plant Compendium
- C Wildlife Compendium
- D CNPS and CNDDDB Special-Status Species List
- E Special Status Plant Species Known to Occur in the Project Region
- F Special Status Wildlife Species Known to Occur in the Project Region

EXECUTIVE SUMMARY

Coastal Commercial Properties (Project Applicant) retained Psomas to prepare this General Biological Resources Assessment Report for the property located at 4570 Francis Avenue located in the City of Chino, California. The purpose of this report is to document existing biological conditions on the Project site and analyze the potential for biological resources including special status plant and wildlife species to occur on the Project site.

Trees subject to regulation under the City of Chino Municipal Code were observed during the field visit and a habitat assessment for burrowing owl was also performed. It was determined that potentially suitable habitat for the burrowing owl is not present on site. No special status plant or animal species were detected on the Project site; no potentially suitable habitat for any special status plant or wildlife species was identified; and no jurisdictional waters were observed.

The Project Applicant and Biological Consultant responsible for the preparation of this report are listed below:

- Coastal Commercial Properties (Project Applicant)
Contact: Brett Crouder
1020 Second Street, Suite C
Encinitas, California 92024
Phone: (949) 622-3122
- Psomas (Biological Consultant)
Contact: David Hughes, Senior Project Manager
225 South Lake Avenue, Suite 1000
Pasadena, California 91101
Phone: (626) 351-2000

1.0 INTRODUCTION

This General Biological Resources Assessment Report presents the findings of a biological reconnaissance survey for the property located at 4570 Francis Avenue (hereinafter referred to as the "Project site) in the City of Chino, San Bernardino County, California. The purpose of the survey was to evaluate existing biological resources and determine the potential for special status plant and wildlife species to occur on the Project site.

1.1 PROJECT LOCATION

The 10.67-acre Project site is located at 4570 Francis Avenue in the City of Chino (Exhibits 1 and 2). The project site is located on the U.S. Geological Survey's (USGS') Ontario 7.5-minute quadrangle of the San Bernardino Meridian at Township 1 South, Range 8 West, Section 34 (Exhibit 3).

1.2 EXISTING CONDITIONS

Currently, the Project site consists of roofed animal pens, concrete pads, and a storage building. The site is bordered by Francis Avenue to the south, Yorba Avenue to the east, and single-family residential properties to the north and west.

The vicinity of the Project site is comprised of residential tract housing, livestock stables, contractor construction yards, vacant lots, transportation corridors (i.e., State Route [SR] 60 and SR-71 freeways), and agricultural fields to the southeast. Numerous large industrial buildings are found between the Project site and the agricultural fields to the southeast.

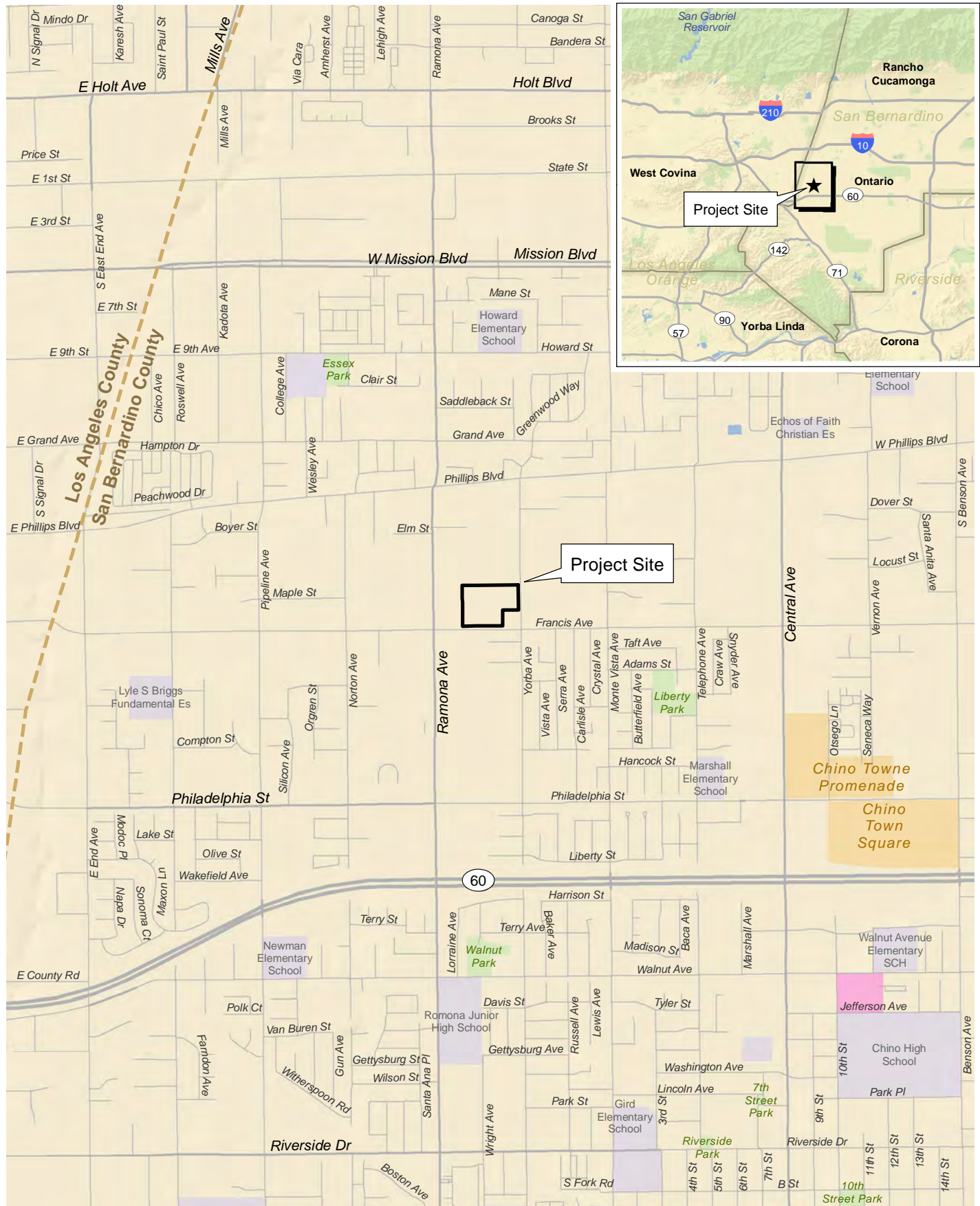
The terrain of the Project site is flat throughout. Elevation is approximately 850 feet above mean sea level (msl). A single soil type, Tujunga loamy sand, occurs on the site (Exhibit 4).

1.3 CLIMATE

Southern California is located in a Mediterranean climate, which is characterized by mild, rainy winters and hot, dry summers. There can also be dramatic differences in rainfall from year to year. Consequently, the vegetation types consist of drought-tolerant, woody shrubs, and trees and annual, fall-sprouting grasses. In the City of Chino, the warmest month is August with an average high of approximately 92 degrees Fahrenheit (°F) and an average low of 62°F, while the coolest month is December with a monthly average high of 68°F and an average low of 42°F (Weather Channel 2016).

1.4 PROJECT DESCRIPTION

The objective of the proposed Project is to create a residential development with associated infrastructure.



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Local Vicinity

4570 Francis Avenue, City of Chino

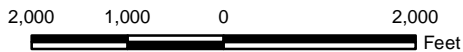


Exhibit 1



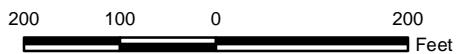
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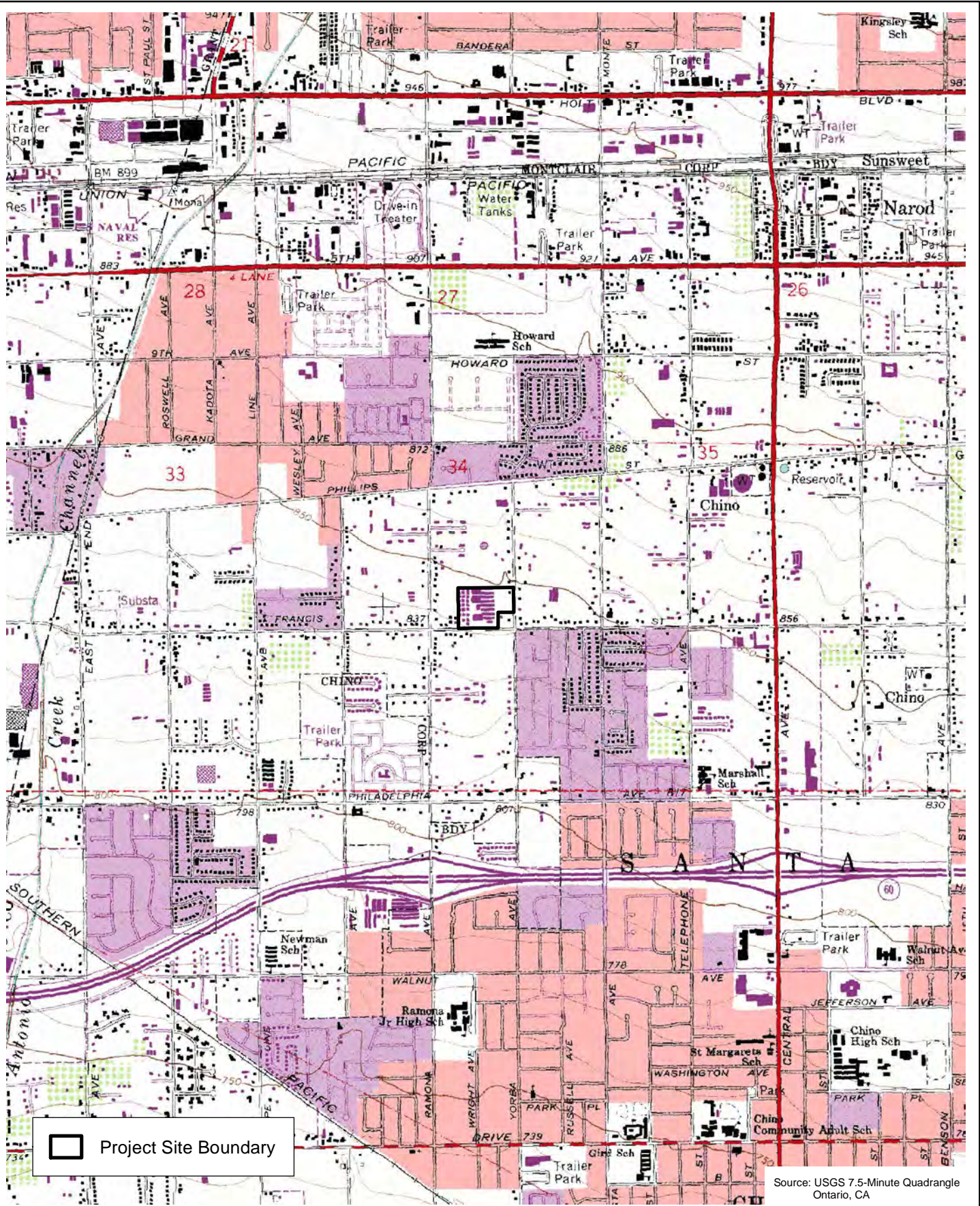


Project Site Location


4570 Francis Avenue, City of Chino

Exhibit 2





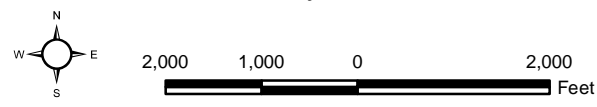
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 Project Site Boundary

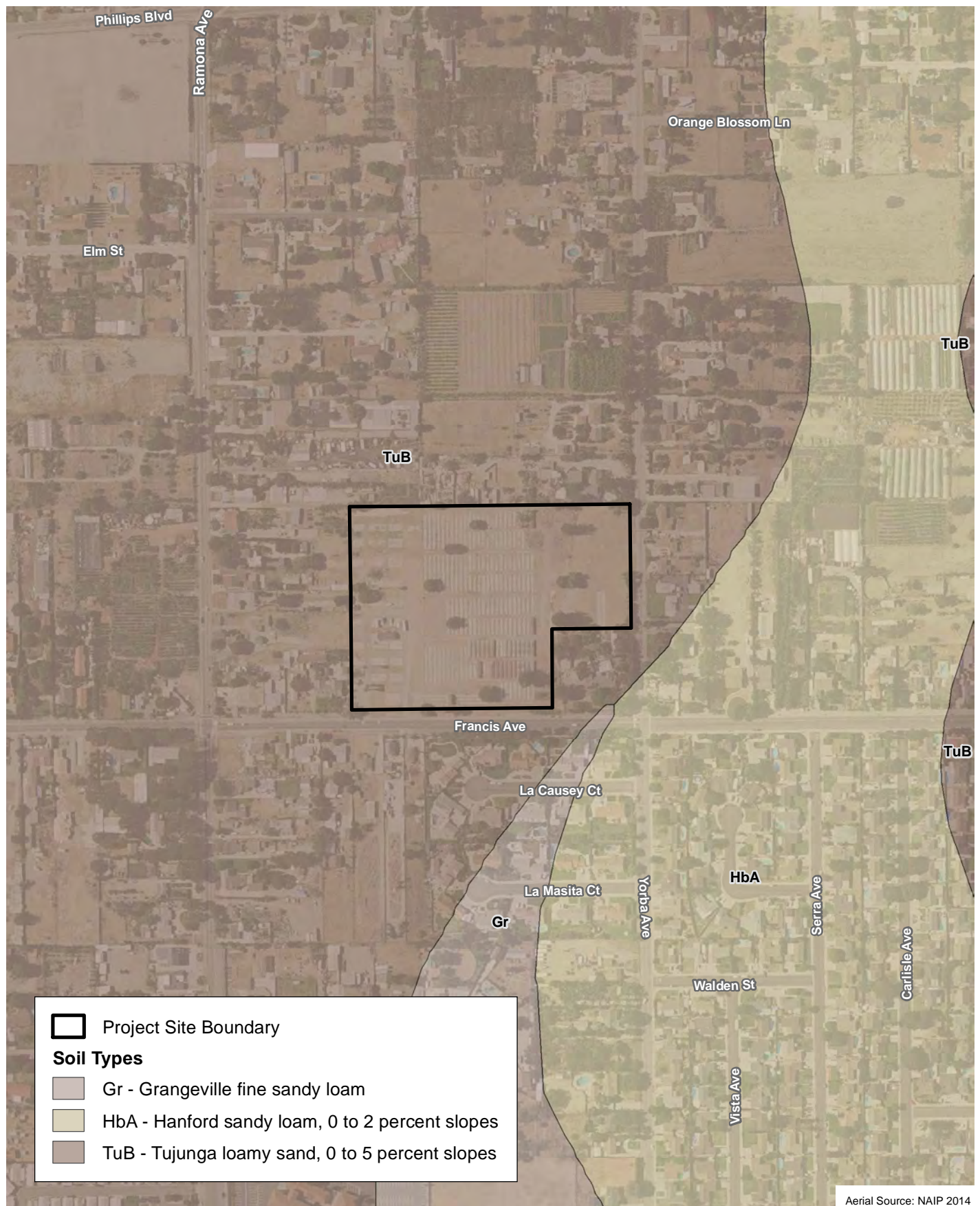
Source: USGS 7.5-Minute Quadrangle Ontario, CA

USGS Topographic Map
4570 Francis Avenue, City of Chino

Exhibit 3



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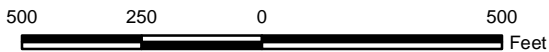


Aerial Source: NAIP 2014

Soil Types

4570 Francis Avenue, City of Chino

Exhibit 4



2.0 SURVEY METHODS

This section describes the methods used to conduct the literature review; perform general biological surveys and vegetation mapping; and assess the Project site's potential to support special status species or other regulated biological resources.

2.1 LITERATURE REVIEW

Psomas conducted a literature search to identify special status plants, wildlife, and habitats known to occur in the vicinity of the Project site. This included a review of the USGS' Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda USGS' 7.5-minute quadrangles in the California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California (CNPS 2016) and the California Department of Fish and Wildlife's (CDFW's) California Natural Diversity Database (CNDDB) (CDFW 2016). In addition, the lists of special status species published by the U.S. Fish and Wildlife Service (USFWS) and CDFW were reviewed.

2.2 VEGETATION MAPPING AND GENERAL SURVEY

Vegetation mapping and general plant and wildlife surveys were conducted on July 14, 2016, by Psomas Botanist Irena Mendez and Biologist Trevor Bristle. Weather conditions during the surveys consisted of partially cloudy skies and warm temperatures (72–80°F) with calm conditions (2–5 mile per hour winds). The purpose of the general surveys was to describe the vegetation present on the Project site and to evaluate the potential of the Project site to support special status species. Nomenclature for vegetation types generally follows that of the CDFW's 2010 *List of Vegetation Alliances and Associations*. Vegetation was mapped in the field on an aerial photograph at a scale of 1 inch equals 100 feet (1"=100').

Plant species were identified in the field or collected for subsequent identification using keys in Baldwin et al. (2012). Taxonomy follows Baldwin et al. (2012) or current scientific journals for scientific and common names.

During the general survey, all areas were evaluated for their potential to support special status plant and wildlife species that are known or expected to occur in the region. Searches for reptiles and amphibians included visually scanning the area. Birds were identified by visual and auditory recognition. Surveying for mammals occurred during the day and included searching for and identifying diagnostic signs, including scat, footprints, scratch-outs, dust bowls, burrows, and trails. Taxonomy and nomenclature for wildlife generally follows Stebbins (2003) for amphibians and reptiles, American Ornithologists' Union (1998) for birds, and Baker et al. (2003) for mammals.

2.3 BURROWING OWL HABITAT ASSESSMENT

A Phase II burrowing owl (*Athene cunicularia*) habitat assessment was performed by Mr. Bristle following protocols approved by the CDFW (2012). The assessment was performed on the Project site as well as a 150-meter (approximate 500-foot) buffer zone around the Project site in search of potentially suitable habitat, where access was available. The habitat assessment generally consisted of walking 100-foot transects while visually scanning the Project site for burrowing owl sign and burrows that could potentially support roosting or nesting burrowing owls. Areas that were inaccessible were surveyed with binoculars. Site conditions were recorded in a field notebook.

2.4 JURISDICTIONAL WATERS

The presence of streambed resources under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and the CDFW was determined according to guidelines described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008) and the *California Fish and Game Code*. The presence of USACE “waters of the U.S.” was determined based on the limits of the “ordinary high water mark” (OHWM), which can be determined by a number of factors including erosion; the deposition of vegetation or debris; and changes in the vegetation. CDFW jurisdiction is defined as the top of bank of the stream/channel/basin or to the outer limit of riparian vegetation located within or immediately adjacent to the river, stream, creek, pond, or lake.

2.5 TREE REGULATORY AUTHORITY

Trees on the Project site may be subject to regulation by the *City of Chino Municipal Code*. The City requires that an applicant receive approval from the Director of Community Development or his designee to remove any regulated trees that are associated with multi-family development, common areas in residential development, and non-residential development. Regulated trees are defined as (1) oak trees with a trunk diameter at breast height measured at 4.5 feet above natural grade level (dbh), that is at least 8 inches; (2) other trees with trunks more than 10 inches dbh; or (3) multi-trunk trees with a total trunk circumference of at least 38 inches at 4.5 feet above natural grade (12 inches dbh) (see Section 20.19.040 of the *City of Chino Municipal Code*).

3.0 SURVEY RESULTS

This section describes the biological resources that occur or may potentially occur on the Project site or areas immediately adjacent to the Project site. The following topics are discussed below: vegetation types, special status vegetation types, special status plant and wildlife species, wildlife movement patterns, burrowing owl habitat assessment, jurisdictional resources, and potentially regulated trees.

3.1 VEGETATION TYPES

No native vegetation types are located on the Project site; only developed and disturbed areas were observed (Exhibit 5). These vegetation types and land covers are described below and their extent on the Project site is summarized in Table 1. Representative photographs of site conditions are included in Attachment A. A compendium of plant species observed on the Project site is provided in Attachment B.

**TABLE 1
SUMMARY OF VEGETATION TYPES**

| Vegetation Type | Project Site Total (acres) |
|-----------------|----------------------------|
| Disturbed | 9.96 |
| Developed | 0.71 |
| Total | 10.67 |

3.1.1 Disturbed

Disturbed areas makeup 9.96 acres of the 10.67-acre Project site and consist of those areas with no concrete or pavement, exhibiting bare soil or sparse vegetation subject to vegetation management pursuant to Chapter 15.32 (specifically, Section 504.1.2 Vegetation) of the City of Chino Municipal Code. Vegetated areas subject to vegetation management consist of recently sprouted non-native annual grasses and herbs such as ripgut brome (*Bromus diandrus*), spotted spurge (*Chamaesyce maculata*), Bermuda grass (*Cynodon dactylon*), Canadian horseweed (*Erigeron canadensis*), horehound (*Marrubium vulgare*), and Russian thistle (*Salsola tragus*). The only native species observed during the Project site visit was jimsonweed (*Datura wrightii*), velvet ash (*Fraxinus velutina*), and Northern California black walnut (*Juglans hindsii*). Large trees are scattered on the site and are often intermixed with tree tobacco (*Nicotiana glauca*) seedlings. The northwest corner of the Project site contained several large American century plants (*Agave americana*) and an unidentified five-foot tall columnar cactus.

3.1.2 Developed

Developed areas occur throughout the Project site and consist of multiple structures that include storage facilities and roofed animal pens with concrete pads. Developed areas account for 0.71 acre of the total 10.67-acre Project site.

3.2 GENERAL WILDLIFE

A wide variety of common wildlife species are expected to occur on the Project site. A general overview of those species expected to occur is described below. A compendium of wildlife species observed during this survey are included as Attachment C.

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Project Site Boundary

Vegetation Types and Other Areas

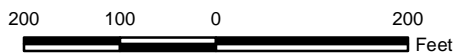
- Disturbed (9.96 acres)
- Developed (0.71 acres)

Aerial Source: ESRI 2010

Vegetation Types and Other Areas

Exhibit 5

4570 Francis Avenue, City of Chino



No amphibian species were observed during the survey and no potential habitat occurs within the Project site.

One reptile species, western fence lizard (*Sceloporus occidentalis*), was observed during the survey. Suitable habitat for reptile species occurs throughout the Project site. Other common reptile species are expected to occur on the Project site such as the southern alligator lizard (*Elgaria multicarinata*), red coachwhip (*Coluber flagellum piceus*), common kingsnake (*Lampropeltis californiae*), California striped racer (*Coluber [Masticophis] lateralis lateralis*), gopher snake (*Pituophis catenifer*), and western rattlesnake (*Crotalus oreganus*).

Bird species observed or expected to occur on the Project site include, but are not limited to, turkey vulture (*Cathartes aura*), red-tailed hawk (*Buteo jamaicensis*), American kestrel (*Falco sparverius*), mourning dove (*Zenaida macroura*), great horned owl (*Bubo virginianus*), Anna's hummingbird (*Calypte anna*), rufous hummingbird (*Selasphorus rufus*), acorn woodpecker (*Melanerpes formicivorus*), northern flicker (*Colaptes auratus*), Cassin's kingbird (*Tyrannus vociferans*), common raven (*Corvus corax*), western scrub jay (*Aphelocoma californica*), California thrasher (*Toxostoma redivivum*), Bullock's oriole (*Icterus bullockii*), common raven (*Corvus corax*), bushtit (*Psaltriparus minimus*), Bewick's wren (*Thryomanes bewickii*), northern mockingbird (*Mimus polyglottos*), European starling (*Sturnus vulgaris*), Western bluebird (*Sialia mexicana*), California towhee (*Pipilo crissalis*), white-crowned sparrow (*Zonotrichia leucophrys*), house sparrow (*Passer domesticus*), house finch (*Haemorhous mexicanus*), Lawrence's goldfinch (*Spinus lawrencei*), and lesser goldfinch (*Carduelis psaltria*).

No mammals were detected during the survey. Common mammal species expected to occur on the Project site include, but are not limited to; California ground squirrel (*Spermophilus beecheyi*), eastern fox squirrel (*Sciurus niger*), western gray squirrel (*Sciurus grisesus*), desert cottontail (*Sylvilagus audubonii*), northern raccoon (*Procyon lotor*), and coyote (*Canis latrans*). Common bat species expected to forage or roost in the study area include the big brown bat (*Eptesicus fuscus*) and California myotis (*Myotis californicus*).

3.3 SPECIAL STATUS VEGETATION TYPES

Various vegetation types are considered to be special status by State and federal resource agencies, academic institutions, and various conservation groups. Determination of the sensitivity level is based on the Nature Conservancy Heritage Program Status Ranks, which ranks vegetation types on a global and statewide basis according to the number and size of remaining occurrences and recognized threats.

No special status vegetation types were noted on the Project site.

3.4 SPECIAL STATUS PLANT AND WILDLIFE SPECIES

Plants or wildlife may be considered to have "special status" due to declining populations, vulnerability to habitat change, or restricted distributions. Certain special status species have been listed as Threatened or Endangered under the California and/or Federal Endangered Species Acts. CNPS and CNDDDB inventories of special status plant and wildlife species in the region are provided in Attachment D.

3.4.1 Special Status Plants

Several special status plant species are known to occur or have historically occurred in the vicinity of the Project site. One of these species, slender-horned spineflower (*Dodecahema leptoceras*), is a federal and State-listed Endangered species, though no potentially suitable habitat for this species was observed on the Project site.

In addition to species formally listed by the USFWS and the CDFW, multiple species reported in the vicinity of the Project site are described by the CNPS' California Rare Plant Rank (CRPR) as List 1B and List 2B plant species. List 1B species are those species that are "Rare, Threatened, or Endangered in California and Elsewhere". List 2B species are "Endangered in California". Impacts to species in either of these categories, as listed in Attachment E, may be considered significant according to Section 15380 of the California Environmental Quality Act (CEQA) Guidelines depending on the size of the population, if present, relative to populations in the region. List 1B or List 2B plant species that have been noted in the vicinity of the Project site include chaparral sand-verbena (*Abronia villosa* var. *aurita*), San Gabriel manzanita (*Arctostaphylos glandulosa* ssp. *gabrielensis*), Braunton's milk-vetch (*Astragalus brauntonii*), Coulter's saltbush (*Atriplex coulteri*), Davidson's saltscale (*Atriplex serenana* var. *davidsonii*), Nevin's barberry (*Berberis nevinii*), thread-leaved brodiaea (*Brodiaea filifolia*), round-leaved filaree (*California macrophylla*), slender mariposa lily (*Calochortus clavatus* var. *gracilis*), intermediate mariposa lily (*Calochortus weedii* var. *intermedius*), southern tarplant (*Centromadia parryi* ssp. *australis*), smooth tarplant (*Centromadia pungens* ssp. *laevis*), Parry's spineflower (*Chorizanthe parryi* var. *parryi*), California sawgrass (*Cladium californicum*), San Gabriel Mountains dudleya (*Dudleya densiflora*), many-stemmed dudleya (*Dudleya multicaulis*), Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*), Johnston's buckwheat (*Eriogonum microthecum*), hot springs fimbriistylis (*Fimbristylis thermalis*), mesa horkelia (*Horkelia cuneata* ssp. *puberula*), California satintail (*Imperata brevifolia*), lemon lily (*Lilium parryi*), San Gabriel linanthus (*Linanthus concinnus*), Jokerst's monardella (*Monardella australis* ssp. *jokerstii*), Hall's monardella (*Monardella macrantha* ssp. *hallii*), prostrate vernal pool navaretia (*Navaretia prostrata*), woolly mountain-parsley (*Oreonana vestita*), Rock Creek broomrape (*Orobanche valida* ssp. *valida*), San Bernardino grass-of-Parnassus (*Parnassia cirrata* var. *cirrata*), Brand's star phacelia (*Phacelia stellaris*), white rabbit-tobacco (*Pseudognaphalium leucocephalum*), Sanford's arrowhead (*Sagittaria sanfordii*), chaparral ragwort (*Senecio aphanactis*), salt spring checkerbloom (*Sidalcea neomexicana*), San Bernardino aster (*Symphyotrichum defoliatum*), Greata's aster (*Symphyotrichum greatae*), Sonoran maiden fern (*Thelypteris puberula* var. *sonorensis*), rigid fringedpod (*Thysanocarpus rigidus*), and grey-leaved violet (*Viola pinetorum* var. *grisea*). No potentially suitable habitat was observed on the Project site for any of these species.

CRPR List 3 and List 4 species are not considered Project constraints and, typically, impacts on these species are considered less than significant and do not require mitigation. Three List 3 species are known to occur in the Project vicinity: lucky morning-glory (*Calystegia felix*), Lewis' evening-primrose (*Camissoniopsis lewisii*), and Perison's spring beauty (*Calytonia lanceolate* var. *peirsonii*). Thirty List 4 species are known to occur in the Project vicinity: Parish's oxytheca (*Acanthoscyphus parishii* var. *parishii*), Watson's amaranth (*Amaranthus watsonii*), California androsace (*Androsace elongata* ssp. *acuta*), western spleenwort (*Asplenium vespertinum*), crested milk-vetch (*Astragalus bicristatus*), Catalina mariposa lily (*Calochortus catalinae*), Plummer's mariposa lily (*Calochortus plummerae*), Peninsular spineflower (*Chorizanthe leptotheca*), small-flowered morning-glory (*Convolvulus simulans*), paniculate tarplant (*Deinandra paniculata*), northern limestone buckwheat (*Eriogonum microthecum* var. *alpinum*), alpine sulfur-flowered buckwheat (*Eriogonum umbellatum* var. *minus*), San Antonio Canyon bedstraw (*Galium angustifolium* ssp. *gabrielense*), Johnston's bedstraw (*Galium johnstonii*), urn-flowered alumroot (*Heuchera caespitosa*), Southern California black walnut (*Juglans californica*), Duran's rush (*Juncus duranii*), fragrant pitcher sage (*Lepechinia fragrans*), Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*), ocellated Humboldt lily (*Lilium humboldtii* ssp. *ocellatum*), rock monardella (*Monardella saxicola*), California muhly (*Muhlenbergia californica*), Hubby's phacelia (*Phacelia hubbyi*), Mojave phacelia (*Phacelia mohavensis*), San Gabriel oak (*Quercus durata* var. *gabrielensis*), Engelmann oak (*Quercus engelmannii*), Coulter's matilija poppy (*Romneya coulteri*), San Gabriel ragwort (*Senecio astephanus*), chickweed oxytheca (*Sidotheca caryophylloides*), and Laguna Mountains jewelflower (*Streptanthus bernardinus*). No potentially suitable habitat was observed on the Project site for these species.

A summary of special status plant species and their likelihood for occurrence on the Project site is provided in Attachment E. Note that these species are listed alphabetically according to their scientific name.

3.4.2 Special Status Wildlife

Multiple special status wildlife species are known to occur in the region (CDFW 2016). Eleven of these species are federally and/or State-listed Threatened or Endangered species: Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*), Santa Ana sucker (*Catostomus santaanae*), arroyo toad (*Anaxyrus californicus*), Swainson's hawk (*Buteo swainsoni*), southern mountain yellow-legged frog (*Rana muscosa*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), southwestern willow flycatcher (*Empidonax traillii extimus*), Southwestern willow flycatcher (*Empidonax traillii extimus*), least Bell's vireo (*Vireo bellii pusillus*), San Bernardino kangaroo rat (*Dipodomys merriami parvus*), and Stephens' kangaroo rat (*Dipodomys stephensi*). No potentially suitable habitat was observed on the Project site for any of these species.

A summary of special status wildlife species known to occur in the Project region is provided in Attachment F along with their potential to occur on the Project site. Note that these species are grouped by taxon and listed alphabetically according to their scientific name.

3.5 WILDLIFE MOVEMENT

The Project site is located in an urbanized setting, surrounded by residential development. Though regional wildlife corridors exist in the general vicinity of the Project site (San Gabriel Mountains, Jurupa Hills, La Sierra Hills, Puente Hills and Chino Hills), the development of the Project site is not located in close proximity and is, therefore, not expected to have an impact on regional wildlife movement.

3.6 BURROWING OWL HABITAT ASSESSMENT

Several factors in combination are likely to explain burrowing owl distribution on local scales, including vegetation density, availability of suitable prey, availability of burrows or suitable soil, and disturbance (primarily from humans). In a few areas, the threat of predators (e.g., coyotes (*Canis latrans*) and domestic cats (*Felis catus*)) may be an important limiting factor. Additional threats include mortality caused directly by humans (including vehicle collisions), excessive disturbance by humans and pets, pesticide use (resulting in death, loss of prey populations, and loss of burrow-constructing animals), habitat degradation and loss, and predatory behavior by nonnative animals, especially domestic pets. Burrowing owls are greatly reduced in numbers in coastal Southern California as compared to historical populations (Garrett and Dunn 1981; Unitt 2004), with the species now nearly extirpated from many areas (Hamilton and Willick 1996). Potentially suitable habitat is defined by CDFG (2012) as areas that generally include, but are not limited to, short or sparse vegetation (at least at some time of year), presence of burrows, burrow surrogates or presence of fossorial mammal dens, well-drained soils, and abundant and available prey.

A habitat assessment following CDFG (2012) protocol was performed within areas of potentially suitable habitat. Site conditions during the habitat assessment consisted of partially cloudy skies and warm temperatures (72–80°F) with calm conditions (2–5 mile per hour winds). Bare soil was observed on the Project site; however, the areas containing bare soil are exposed to regular disturbance from humans and domestic animals and are therefore not suitable burrowing owl habitat. Due to the close proximity to residential housing and domestic animal activity, patches of weeds were observed on the Project site, but are surrounded by areas that appear to be regularly disturbed. A sufficient expanse of weedy areas to support burrowing owls does not exist on the

Project site. No crop, pasture land, utility land, annual and perennial grassland, desert, or scrubland was observed on the Project site. Additionally, while several burrows from fossorial mammals were observed on the Project site, none were >11 cm in diameter (height and width) and >150 cm in depth as defined in the CDFG (2012) protocol. No burrow surrogates were observed on the Project site. No indications of burrowing owl presence was observed on the Project site.

According to CNDDDB records, burrowing owls occur in the region of the Project site, but no burrowing owls have been detected within three miles of the site (CDFW 2016). Agricultural fields that currently support burrowing owl populations are located approximately three miles southeast of the Project site, though these areas are separated from the Project site by large complexes of industrial buildings and residential tracts. Although small patches of vacant lots with weedy vegetation exist in the immediate vicinity of the Project site, there is not sufficient open space to support roosting or nesting. The consistent high level of human activity and presence of domestic goats on the Project site are additional factors in preventing burrowing owls from using the site for roosting or nesting. Therefore, the site is not considered potentially suitable habitat for the burrowing owl and further surveys are not recommended.

3.7 JURISDICTIONAL WATERS

Streambed and wetland resources are usually under the jurisdiction of the USACE, the SWRCB, and the CDFW. Regulatory authority is granted to these agencies by the Federal Clean Water Act, California Porter-Cologne Act, and *California Fish and Game Code*. Impacts (e.g., discharges of fill or other material) to these resources or associated habitat would require permits from these agencies.

No jurisdictional streambed or wetland resources were observed on the Project site.

3.8 REGULATED TREES

Trees on the Project site consist of tree of heaven (*Ailanthus altissima*), blue gum (*Eucalyptus globulus*), cedar gum (*Eucalyptus gunnii*), velvet ash (*Fraxinus velutina*), Northern California walnut (*Juglans hindsii*), avocado (*Persea americana*), Canary Island date palm (*Phoenix canariensis*), Peruvian peppertree (*Schinus molle*), queen palm (*Syagrus romanzoffiana*), and Mexican fan palm (*Washingtonia robusta*). These trees are scattered throughout the Project site and were likely planted as part of remnant agricultural activities (e.g., orchards, livestock shade, wind breaks).

The Project site is under the City's jurisdiction; therefore, an arborist report shall be required for the removal of any trees as described in Section 2.5 (e.g., oak trees larger than 8 inches dbh, single trunk trees larger than 10 inches dbh, and multi-trunk trees greater than 12 inches dbh). No oak trees occur on the site; however, several of the trees described above are greater than 10 inches dbh and would require a removal permit.

4.0 RECOMMENDED MITIGATION MEASURES

The following is a list of recommended mitigation measures to ensure that the Project site is consistent with regulations protecting biological resources.

1. The Project Applicant shall obtain authorization from the City of Chino prior to removing any trees located on the Project site, as appropriate.
2. Because the various trees on the site provide nesting opportunities for birds, vegetation removal activities should be planned during the non-nesting season (generally September 16–January 31) to avoid impacts to nesting birds. If vegetation removal is planned during the nesting season, a qualified Biologist shall perform a nest survey to determine if impacts to active nests would occur. The monitoring biologist would provide guidance to the applicant to keep Project site activities in compliance with State and federal laws protecting nesting bird species.

5.0 REFERENCES

- American Ornithologists' Union (AOU). 1998. *Check-list of North American Birds* (7th ed). Shipman, VA: Buteo Books.
- Baker, R.J., L.C. Bradley, R.D. Bradley, J.W. Drago, M.D. Engstrom, R.S. Hoffmann, C.A. Jones, F. Reid, D.W. Rice, and C. Jones. 2003 (December). Revised Checklist of North American Mammals North of Mexico, 2003. *Occasional Papers* (No. 229). Waco, TX: Museum of Texas Tech University.
- Baldwin, B.G., D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken (Eds.). 2012. *The Jepson Manual: Vascular Plants of California* (Second ed.). Berkeley, CA: University of California Press.
- California Department of Fish and Wildlife (CDFW). 2016 (July). California Natural Diversity Database. Records of Occurrence for the USGS Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda 7.5-minute quadrangles. Sacramento, CA: CDFW, Natural Heritage Division.
- California Department of Fish and Game (CDFG). 2012 (March 7). *Staff Report on Burrowing Owl Mitigation*. Sacramento, CA: CDFG
- . 2010 (September). *List of Vegetation Alliances and Associations, Vegetation Classification and Mapping Program*. Sacramento, CA: CDFG.
- California Native Plant Society (CNPS). 2016. Locational Inventory of Rare and Endangered Vascular Plants of California. Records of Occurrence for the USGS Corona North, Cucamonga Peak, Glendora, Guasti, Mt. Baldy, Ontario, Prado Dam, San Dimas, and Yorba Linda 7.5-minute quadrangles. Sacramento, CA: CNPS. <http://www.cnps.org/inventory>.
- Chino, City of. 2015 (June, last amended). *Chino Municipal Code* (Chapter 15.32, Fire Code). Tallahassee, FL: Municode Corporation for the City. https://www.municode.com/library/ca/chino/codes/code_of_ordinances?nodeId=TIT15B_UCO_CH15.32FICO.
- Garrett, K., and J. Dunn. 1981. *Birds of Southern California: Status and Distribution*. Los Angeles, CA: Los Angeles Audubon Society.
- Hamilton, R.A. and D.R. Willick. 1996. *The Birds of Orange County, California: Status and Distribution*. Irvine, CA: Sea and Sage Audubon Society.
- Stebbins, R.C. 2003. *A Field Guide to Western Reptiles and Amphibians* (3rd ed.). Boston, MA: Houghton-Mifflin Company.
- Weather Channel, The. 2016. *Monthly Averages for Chino, CA (91710)*. Atlanta, GA: Weather Channel Interactive, Inc. <https://weather.com/weather/monthly/l/91710:4:US>.
- Unitt, P. 2004. *San Diego County Bird Atlas*. Proceedings of the San Diego Society of Natural History, No. 39. San Diego, CA: San Diego Natural History Museum.
- U.S. Army Corps of Engineers (USACE). 2008. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*. (J.S. Wakeley, R.W. Lichvar, and C.V. Noble, Eds.). Vicksburg, MS: U.S. Army Engineer Research and Development Center.

ATTACHMENT A
SITE PHOTOGRAPHS



View 1. Taken from southwest corner, facing north. Showing concrete pads and the gas pump building.



View 2. Taken from northwest corner, facing southeast. Showing the main disturbed area with scattered ornamental trees

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-1





View 3. Taken from the north edge, facing south. Showing fencing along the edge of the site.



View 4. Taken from the south edge, facing north. Showing fencing along the edge of the site.

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-2





View 5. Taken from the southeast corner, facing northwest. Showing a developed area consisting of abandoned chicken coops.



View 6. Taken from the middle southwest corner, facing northwest. Showing a disturbed area with scattered ornamental trees and old chicken coops in the background.

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Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-3





View 7. Taken from the northeast corner, facing southwest. Showing the main disturbed area in the foreground and developed areas in the background.

Site Photographs

4570 Francis Avenue, City of Chino

Attachment A-4



ATTACHMENT B
PLANT COMPENDIUM

**TABLE B-1
PLANT SPECIES OBSERVED
ON THE PROJECT SITE**

| Species |
|--|
| FLOWERING PLANTS |
| CLASS DICOTYLEDONES (DICOTS) |
| ANACARDIACEAE – SUMAC FAMILY |
| <i>Schinus molle</i> * Peruvian pepper tree |
| ASTERACEAE (COMPOSITAE) – SUNFLOWER FAMILY |
| <i>Conyza canadensis</i> * Canadian horseweed |
| CHENOPODIACEAE – GOOSEFOOT FAMILY |
| <i>Salsola tragus</i> * Russian thistle |
| EUPHORBIACEAE – SPURGE FAMILY |
| <i>Euphorbia maculata</i> * spotted spurge |
| JUGLANDACEAE – WALNUT FAMILY |
| <i>Juglans hindsii</i> Northern California black walnut |
| LAMIACEAE – MINT FAMILY |
| <i>Marrubium vulgare</i> * horehound |
| MYRTACEAE – MYRTLE FAMILY |
| <i>Eucalyptus globulus</i> * blue gum |
| <i>Eucalyptus gunnii</i> * cider gum |
| OLERACEAE – OLIVE FAMILY |
| <i>Fraxinus velutina</i> velvet ash |
| SIMAROUBACEAE – QUASSIA FAMILY |
| <i>Ailanthus altissima</i> * tree of heaven |
| SOLANACEAE – NIGHTSHADE FAMILY |
| <i>Datura wrightii</i> jimsonweed |
| ROSACEAE – ROSE FAMILY |
| <i>Pyracantha</i> sp.* firethorn or pyracantha |
| CLASS MONOCOTYLEDONES (MONOCOTS) |
| AGAVACEAE – AGAVE FAMILY |
| <i>Agave americana</i> * century plant |
| ARECACEAE (PALMAE) – PALM FAMILY |
| <i>Phoenix canariensis</i> * Canary Island palm |
| <i>Syagrus romanzoffiana</i> * Queen palm |

**TABLE B-1
PLANT SPECIES OBSERVED
ON THE PROJECT SITE**

| Species |
|---|
| <i>Washingtonia robusta</i> * Mexican fan palm |
| <i>POACEAE [GRAMINEAE] – GRASS FAMILY</i> |
| <i>Bromus diandrus</i> * ripgut brome |
| <i>Bromus madritensis</i> * foxtail chess |
| <i>Cynodon dactylon</i> * Bermuda grass |
| * non-native species |

ATTACHMENT C
WILDLIFE COMPENDIUM

**TABLE C-1
WILDLIFE SPECIES OBSERVED WITHIN
THE PROJECT SITE**

| Species |
|--|
| Lizards |
| <i>PHRYNOSOMATIDAE</i> - SPINY LIZARD FAMILY |
| <i>Sceloporus occidentalis</i> western fence lizard |
| Birds |
| <i>COLUMBIDAE</i> - PIGEON AND DOVE FAMILY |
| <i>Zenaida macroura</i> mourning dove |
| <i>TROCHILIDAE</i> - HUMMINGBIRD FAMILY |
| <i>Selasphorus rufus</i> rufous hummingbird |
| <i>CORVIDAE</i> - JAY AND CROW FAMILY |
| <i>Corvus corax</i> common raven |
| <i>MIMIDAE</i> - MOCKINGBIRD AND THRASHER FAMILY |
| <i>Mimus polyglottos</i> northern mockingbird |
| <i>STURNIDAE</i> - STARLING FAMILY |
| <i>Sturnus vulgaris</i> * European starling |
| <i>EMBERIZIDAE</i> - SPARROW FAMILY |
| <i>Melospiza crissalis</i> California towhee |
| <i>FRINGILLIDAE</i> - FINCH FAMILY |
| <i>Haemorhous mexicanus</i> house finch |
| <i>PASSERIDAE</i> - OLD WORLD SPARROW FAMILY |
| <i>Passer domesticus</i> * house sparrow |
| *=Non-native or invasive species |

ATTACHMENT D

CNDDB AND CNPS SPECIAL-STATUS SPECIES LIST

Query Summary:

Quad IS (Corona North (3311785) OR Cucamonga Peak (3411725) OR Glendora (3411727) OR Guasti (3411715) OR Mt. Baldy (3411726) OR Ontario (3411716) OR Prado Dam (3311786) OR San Dimas (3411717) OR Yorba Linda (3311787))

Print Close

CNDDDB Element Query Results

| Scientific Name | Common Name | Taxonomic Group | Element Code | Total Occs | Returned Occs | Federal Status | State Status | Global Rank | State Rank | CA Rare Plant Rank | Other Status | Habitats |
|--|--|-----------------|--------------|------------|---------------|----------------|--------------|-------------|------------|--------------------|---|---|
| <i>Abronia villosa</i> var. <i>aurita</i> | chaparral sand-verbena | Dicots | PDNYC010P1 | 81 | 2 | None | None | G5T2T3 | S2 | 1B.1 | BLM_S-Sensitive, USFS_S-Sensitive | Chaparral, Coastal scrub, Desert dunes |
| <i>Agelaius tricolor</i> | tricolored blackbird | Birds | ABPBXB0020 | 781 | 7 | None | None | G2G3 | S1S2 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern | Freshwater marsh, Marsh & swamp, Swamp, Wetland |
| <i>Aimophila ruficeps</i> <i>canescens</i> | southern California rufous-crowned sparrow | Birds | ABPBX91091 | 197 | 5 | None | None | G5T3 | S2S3 | null | CDFW_WL-Watch List | Chaparral, Coastal scrub |
| <i>Ammodramus savannarum</i> | grasshopper sparrow | Birds | ABPBXA0020 | 19 | 1 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Valley & foothill grassland |
| <i>Anaxyrus californicus</i> | arroyo toad | Amphibians | AAABB01230 | 135 | 1 | Endangered | None | G2G3 | S2S3 | null | CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered | Desert wash, Riparian scrub, Riparian woodland, South coast flowing waters, South coast standing waters |
| <i>Anniella pulchra</i> <i>pulchra</i> | silvery legless lizard | Reptiles | ARACC01012 | 96 | 3 | None | None | G3G4T3T4Q | S3 | null | CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Chaparral, Coastal dunes, Coastal scrub |
| <i>Antrozous pallidus</i> | pallid bat | Mammals | AMACC10010 | 403 | 3 | None | None | G5 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority | Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland |
| <i>Aquila chrysaetos</i> | golden eagle | Birds | ABNKC22010 | 312 | 3 | None | None | G5 | S3 | null | BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, CDFW_WL-Watch List, IUCN_LC-Least | Broadleaved upland forest, Cismontane woodland, Coastal prairie, Great Basin grassland, Great Basin scrub, Lower montane coniferous forest, Pinon & juniper |

| | | | | | | | | | | | | | |
|--|--------------------------------|------------|------------|------|----|------------|------------|--------|------|------|--|--|---|
| | | | | | | | | | | | | Concern, USFWS_BCC-Birds of Conservation Concern | woodlands, Upper montane coniferous forest, Valley & foothill grassland |
| Arctostaphylos glandulosa ssp. gabriellensis | San Gabriel manzanita | Dicots | PDERI042P0 | 35 | 4 | None | None | G5T2 | S2 | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral | |
| Artemisiospiza belli belli | Bell's sage sparrow | Birds | ABPBX97021 | 58 | 1 | None | None | G5T2T4 | S2? | null | CDFW_WL-Watch List, USFWS_BCC-Birds of Conservation Concern | Chaparral, Coastal scrub | |
| Asio otus | long-eared owl | Birds | ABNSB13010 | 43 | 1 | None | None | G5 | S3? | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Cismontane woodland, Great Basin scrub, Riparian forest, Riparian woodland, Upper montane coniferous forest | |
| Aspidoscelis hyperythra | orangethroat whiptail | Reptiles | ARACJ02060 | 347 | 5 | None | None | G5 | S2S3 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern, USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub | |
| Aspidoscelis tigris stejnegeri | coastal whiptail | Reptiles | ARACJ02143 | 114 | 2 | None | None | G5T5 | S3 | null | CDFW_SSC-Species of Special Concern | null | |
| Astragalus brauntonii | Braunton's milk-vetch | Dicots | PDFAB0F1G0 | 42 | 1 | Endangered | None | G2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Chaparral, Coastal scrub, Limestone, Valley & foothill grassland | |
| Athene cucularia | burrowing owl | Birds | ABNSB10010 | 1887 | 42 | None | None | G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern | Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland | |
| Atriplex coulteri | Coulter's saltbush | Dicots | PDCHE040E0 | 102 | 1 | None | None | G3 | S1S2 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden | Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley & foothill grassland | |
| Batrachoseps gabrieli | San Gabriel slender salamander | Amphibians | AAAAD02110 | 8 | 4 | None | None | G2G3 | S2S3 | null | IUCN_DD-Data Deficient, USFS_S-Sensitive | Talus slope | |
| Berberis nevinii | Nevin's barberry | Dicots | PDBER060A0 | 31 | 3 | Endangered | Endangered | G1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub | |
| Bombus crotchii | Crotch bumble bee | Insects | IIHYM24480 | 232 | 8 | None | None | G3G4 | S1S2 | null | null | null | |
| Brodiaea filifolia | thread-leaved brodiaea | Monocots | PMLIL0C050 | 131 | 6 | Threatened | Endangered | G2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland, Vernal pool, Wetland | |

| | | | | | | | | | | | | |
|--|---------------------------------------|----------|------------|------|----|------------|------------|--------|------|------|---|---|
| Buteo swainsoni | Swainson's hawk | Birds | ABNKC19070 | 2401 | 2 | None | Threatened | G5 | S3 | null | BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern | Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland |
| California Walnut Woodland | California Walnut Woodland | Woodland | CTT71210CA | 76 | 25 | None | None | G2 | S2.1 | null | null | Cismontane woodland |
| California macrophylla | round-leaved filaree | Dicots | PDGER01070 | 162 | 2 | None | None | G3? | S3? | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden | Cismontane woodland, Valley & foothill grassland |
| Callophrys mossii hidakupa | San Gabriel Mountains elfin butterfly | Insects | IILEPE2206 | 3 | 3 | None | None | G4T1T2 | S1S2 | null | USFS_S-Sensitive | Lower montane coniferous forest |
| Calochortus clavatus var. gracilis | slender mariposa-lily | Monocots | PMLIL0D096 | 105 | 5 | None | None | G4T2T3 | S2S3 | 1B.2 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Valley & foothill grassland |
| Calochortus plummerae | Plummer's mariposa-lily | Monocots | PMLIL0D150 | 230 | 33 | None | None | G4 | S4 | 4.2 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley & foothill grassland |
| Calochortus weedii var. intermedius | intermediate mariposa-lily | Monocots | PMLIL0D1J1 | 138 | 13 | None | None | G3G4T2 | S2 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Valley & foothill grassland |
| Calystegia felix | lucky morning-glory | Dicots | PDCON040P0 | 9 | 6 | None | None | GHQ | SH | 3.1 | null | Meadow & seep, Riparian scrub |
| Campylorhynchus brunneicapillus sandiegensis | coastal cactus wren | Birds | ABPBG02095 | 151 | 3 | None | None | G5T3Q | S3 | null | CDFW_SSC-Species of Special Concern, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern | Coastal scrub |
| Canyon Live Oak Ravine Forest | Canyon Live Oak Ravine Forest | Riparian | CTT61350CA | 50 | 30 | None | None | G3 | S3.3 | null | null | Riparian forest |
| Catostomus santaanae | Santa Ana sucker | Fish | AFCJC02190 | 27 | 7 | Threatened | None | G1 | S1 | null | AFS_TH-Threatened, IUCN_VU-Vulnerable | Aquatic, South coast flowing waters |
| Centromadia pungens ssp. laevis | smooth tarplant | Dicots | PDAST4R0R4 | 117 | 2 | None | None | G3G4T2 | S2 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Alkali playa, Chenopod scrub, Meadow & seep, Riparian woodland, Valley & foothill grassland, Wetland |
| Chaetodipus fallax fallax | northwestern San Diego pocket mouse | Mammals | AMAFD05031 | 94 | 5 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Chaparral, Coastal scrub |
| Chorizanthe parryi var. parryi | Parry's spineflower | Dicots | PDPGN040J2 | 127 | 6 | None | None | G3T3 | S3 | 1B.1 | BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland |
| Cladium | California | | | | | | | | | | USFS_S- | Alkali marsh, Freshwater |

| | | | | | | | | | | | | |
|---|---|------------|------------|------|---|------------|------------|------|------|------|--|---|
| <i>Emys marmorata</i> | western pond turtle | Reptiles | ARAAD02030 | 1159 | 7 | None | None | G3G4 | S3 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive | flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland |
| <i>Ensatina klauberi</i> | large-blotched salamander | Amphibians | AAAAD04013 | 11 | 1 | None | None | G2G3 | S3 | null | CDFW_WL-Watch List, USFS_S-Sensitive | null |
| <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> | Santa Ana River woollystar | Dicots | PDPLM03035 | 30 | 2 | Endangered | Endangered | G4T1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Coastal scrub |
| <i>Eriogonum microthecum</i> var. <i>johnstonii</i> | Johnston's buckwheat | Dicots | PDPGN083W5 | 7 | 2 | None | None | G5T2 | S2 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Limestone, Subalpine coniferous forest, Upper montane coniferous forest |
| <i>Eumops perotis californicus</i> | western mastiff bat | Mammals | AMACD02011 | 293 | 9 | None | None | G5T4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, WBWG_H-High Priority | Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland |
| <i>Falco columbarius</i> | merlin | Birds | ABNKD06030 | 34 | 1 | None | None | G5 | S3S4 | null | CDFW_WL-Watch List, IUCN_LC-Least Concern | Estuary, Great Basin grassland, Valley & foothill grassland |
| <i>Fimbristylis thermalis</i> | hot springs fimbriatylis | Monocots | PMCYP0B0N0 | 19 | 1 | None | None | G4 | S1S2 | 2B.2 | null | Meadow & seep, Wetland |
| <i>Gila orcuttii</i> | arroyo chub | Fish | AFCJB13120 | 49 | 4 | None | None | G2 | S2 | null | AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, South coast flowing waters |
| <i>Horkelia cuneata</i> var. <i>puberula</i> | mesa horkelia | Dicots | PDROS0W045 | 103 | 9 | None | None | G4T1 | S1 | 1B.1 | USFS_S-Sensitive | Chaparral, Cismontane woodland, Coastal scrub |
| <i>Icteria virens</i> | yellow-breasted chat | Birds | ABPBX24010 | 87 | 1 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Riparian forest, Riparian scrub, Riparian woodland |
| <i>Imperata brevifolia</i> | California satintail | Monocots | PMPOA3D020 | 31 | 1 | None | None | G3 | S3 | 2B.1 | SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive | Chaparral, Coastal scrub, Meadow & seep, Mojavean desert scrub, Riparian scrub, Wetland |
| <i>Lampropeltis zonata</i> (<i>parvirubra</i>) | California mountain kingsnake (San Bernardino population) | Reptiles | ARADB19062 | 9 | 1 | None | None | G4G5 | S2? | null | BLM_S-Sensitive, CDFW_WL-Watch List, IUCN_LC-Least Concern, USFS_S-Sensitive | Chaparral, Lower montane coniferous forest, Talus slope |
| <i>Lasiurus cinereus</i> | hoary bat | Mammals | AMACC05030 | 235 | 5 | None | None | G5 | S4 | null | IUCN_LC-Least Concern, WBWG_M-Medium | Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North |

| | | | | | | | | | | | | |
|---|-----------------------------------|------------|------------|-----|----|------|------|--------|------|------|--|---|
| | | | | | | | | | | | Priority | coast coniferous forest |
| <i>Lasiurus xanthinus</i> | western yellow bat | Mammals | AMACC05070 | 57 | 4 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_H-High Priority | Desert wash |
| <i>Lepidium virginicum</i> var. <i>robinsonii</i> | Robinson's pepper-grass | Dicots | PDBRA1M114 | 142 | 12 | None | None | G5T3 | S3 | 4.3 | null | Chaparral, Coastal scrub |
| <i>Lepus californicus bennettii</i> | San Diego black-tailed jackrabbit | Mammals | AMAEB03051 | 102 | 1 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| <i>Lilium parryi</i> | lemon lily | Monocots | PMLIL1A0J0 | 138 | 2 | None | None | G3 | S3 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Meadow & seep, Riparian forest, Upper montane coniferous forest, Wetland |
| <i>Linanthus concinnus</i> | San Gabriel linanthus | Dicots | PDPLM090D0 | 31 | 4 | None | None | G3 | S3 | 1B.2 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Upper montane coniferous forest |
| <i>Lithobates pipiens</i> | northern leopard frog | Amphibians | AAABH01170 | 22 | 1 | None | None | G5 | S2 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Freshwater marsh, Great Basin flowing waters, Great Basin standing waters, Marsh & swamp, Wetland |
| <i>Monardella australis</i> ssp. <i>jokerstii</i> | Jokerst's monardella | Dicots | PDLAM18112 | 3 | 2 | None | None | G4T1 | S1 | 1B.1 | USFS_S-Sensitive | Chaparral, Lower montane coniferous forest |
| <i>Monardella macrantha</i> ssp. <i>hallii</i> | Hall's monardella | Dicots | PDLAM180E1 | 38 | 3 | None | None | G5T3 | S3 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley & foothill grassland |
| <i>Muhlenbergia californica</i> | California muhly | Monocots | PMPOA480A0 | 5 | 1 | None | None | G4 | S4 | 4.3 | null | Chaparral, Coastal scrub, Lower montane coniferous forest, Meadow & seep |
| <i>Myotis yumanensis</i> | Yuma myotis | Mammals | AMACC01020 | 260 | 2 | None | None | G5 | S4 | null | BLM_S-Sensitive, IUCN_LC-Least Concern, WBWG_LM-Low-Medium Priority | Lower montane coniferous forest, Riparian forest, Riparian woodland, Upper montane coniferous forest |
| <i>Navarretia prostrata</i> | prostrate vernal pool navarretia | Dicots | PDPLM0C0Q0 | 60 | 1 | None | None | G2 | S2 | 1B.1 | null | Coastal scrub, Meadow & seep, Valley & foothill grassland, Vernal pool, Wetland |
| <i>Neotoma lepida intermedia</i> | San Diego desert woodrat | Mammals | AMAFF08041 | 115 | 6 | None | None | G5T3T4 | S3S4 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| <i>Nyctinomops femorosaccus</i> | pocketed free-tailed bat | Mammals | AMACD04010 | 90 | 2 | None | None | G4 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_M-Medium Priority | Joshua tree woodland, Pinon & juniper woodlands, Riparian scrub, Sonoran desert scrub |
| | | | | | | | | | | | CDFW_SSC-Species of Special Concern, | |

| | | | | | | | | | | | | |
|-------------------------------------|--------------------------------------|------------|------------|-----|----|------------|------------|---------|------|------|---|--|
| Nyctinomops macrotis | big free-tailed bat | Mammals | AMACD04020 | 32 | 1 | None | None | G5 | S3 | null | IUCN_LC-Least Concern, WBWG_MH-Medium-High Priority | null |
| Oreonana vestita | woolly mountain-parsley | Dicots | PDAPI1G030 | 40 | 8 | None | None | G3 | S3 | 1B.3 | SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive | Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest |
| Orobanche valida ssp. valida | Rock Creek broomrape | Dicots | PDORO040G2 | 12 | 2 | None | None | G4T2 | S2 | 1B.2 | USFS_S-Sensitive | Chaparral, Pinon & juniper woodlands |
| Ovis canadensis nelsoni | desert bighorn sheep | Mammals | AMALE04013 | 45 | 2 | None | None | G4T4 | S3 | null | BLM_S-Sensitive, CDFW_FP-Fully Protected, USFS_S-Sensitive | Alpine, Alpine dwarf scrub, Chaparral, Chenopod scrub, Great Basin scrub, Mojavean desert scrub, Montane dwarf scrub, Pinon & juniper woodlands, Riparian woodland, Sonoran desert scrub |
| Perognathus longimembris brevinasus | Los Angeles pocket mouse | Mammals | AMAFD01041 | 49 | 5 | None | None | G5T1T2 | S1S2 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| Phacelia stellaris | Brand's star phacelia | Dicots | PDHYD0C510 | 15 | 1 | None | None | G1 | S1 | 1B.1 | SB_RSABG-Rancho Santa Ana Botanic Garden | Coastal dunes, Coastal scrub |
| Phrynosoma blainvillii | coast horned lizard | Reptiles | ARACF12100 | 731 | 12 | None | None | G3G4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon & juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland |
| Polioptila californica californica | coastal California gnatcatcher | Birds | ABPBJ08081 | 814 | 35 | Threatened | None | G4G5T2Q | S2 | null | CDFW_SSC-Species of Special Concern, NABCI_YWL-Yellow Watch List | Coastal bluff scrub, Coastal scrub |
| Pseudognaphalium leucocephalum | white rabbit-tobacco | Dicots | PDAST440C0 | 15 | 2 | None | None | G4 | S2 | 2B.2 | null | Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland |
| Rana muscosa | southern mountain yellow-legged frog | Amphibians | AAABH01330 | 186 | 5 | Endangered | Endangered | G1 | S1 | null | CDFW_WL-Watch List, IUCN_EN-Endangered, USFS_S-Sensitive | Aquatic |
| Rhaphiomidas terminatus abdominalis | Delhi Sands flower-loving fly | Insects | IDIP05021 | 13 | 3 | Endangered | None | G1T1 | S1 | null | null | Interior dunes |
| Rhinichthys osculus ssp. 3 | Santa Ana speckled dace | Fish | AFCJB3705K | 14 | 3 | None | None | G5T1 | S1 | null | AFS_TH-Threatened, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive | Aquatic, South coast flowing waters |
| Riversidian Alluvial Fan Sage Scrub | Riversidian Alluvial Fan Sage Scrub | Scrub | CTT32720CA | 30 | 8 | None | None | G1 | S1.1 | null | null | Coastal scrub |
| Sagittaria sanfordii | Sanford's arrowhead | Monocots | PMALI040Q0 | 93 | 1 | None | None | G3 | S3 | 1B.2 | BLM_S-Sensitive | Marsh & swamp, Wetland |

| | | | | | | | | | | | | |
|---|---|---------------|------------|-----|----|------|------|------|------|------|--|--|
| Salvadora hexalepis virgultea | coast patch-nosed snake | Reptiles | ARADB30033 | 22 | 1 | None | None | G5T4 | S2S3 | null | CDFW_SSC-Species of Special Concern | Coastal scrub |
| Senecio aphanactis | chaparral ragwort | Dicots | PDAST8H060 | 47 | 1 | None | None | G3 | S2 | 2B.2 | null | Chaparral, Cismontane woodland, Coastal scrub |
| Setophaga petechia | yellow warbler | Birds | ABPBX03010 | 51 | 1 | None | None | G5 | S3S4 | null | CDFW_SSC-Species of Special Concern, USFWS_BCC-Birds of Conservation Concern | Riparian forest, Riparian scrub, Riparian woodland |
| Sidalcea neomexicana | Salt Spring checkerbloom | Dicots | PDMAL110J0 | 15 | 2 | None | None | G4 | S2 | 2B.2 | USFS_S-Sensitive | Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland |
| Southern California Arroyo Chub/Santa Ana Sucker Stream | Southern California Arroyo Chub/Santa Ana Sucker Stream | Inland Waters | CARE2330CA | 4 | 3 | None | None | GNR | SNR | null | null | null |
| Southern Coast Live Oak Riparian Forest | Southern Coast Live Oak Riparian Forest | Riparian | CTT61310CA | 246 | 15 | None | None | G4 | S4 | null | null | Riparian forest |
| Southern Cottonwood Willow Riparian Forest | Southern Cottonwood Willow Riparian Forest | Riparian | CTT61330CA | 111 | 3 | None | None | G3 | S3.2 | null | null | Riparian forest |
| Southern Sycamore Alder Riparian Woodland | Southern Sycamore Alder Riparian Woodland | Riparian | CTT62400CA | 230 | 19 | None | None | G4 | S4 | null | null | Riparian woodland |
| Southern Willow Scrub | Southern Willow Scrub | Riparian | CTT63320CA | 45 | 1 | None | None | G3 | S2.1 | null | null | Riparian scrub |
| Streptanthus bernardinus | Laguna Mountains jewelflower | Dicots | PDBRA2G060 | 22 | 2 | None | None | G3G4 | S3S4 | 4.3 | SB_RSABG-Rancho Santa Ana Botanic Garden | Chaparral, Lower montane coniferous forest, Upper montane coniferous forest |
| Symphyotrichum defoliatum | San Bernardino aster | Dicots | PDASTE80C0 | 76 | 4 | None | None | G2 | S2 | 1B.2 | BLM_S-Sensitive, USFS_S-Sensitive | Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Valley & foothill grassland |
| Symphyotrichum greatae | Greata's aster | Dicots | PDASTE80U0 | 56 | 8 | None | None | G2 | S2 | 1B.3 | BLM_S-Sensitive | Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland |
| Taricha torosa | Coast Range newt | Amphibians | AAAAF02032 | 65 | 12 | None | None | G4 | S4 | null | CDFW_SSC-Species of Special Concern | null |
| | | | | | | | | | | | | Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone coniferous forest, Coastal |

| | | | | | | | | | | | | |
|--------------------------------------|-------------------------|----------|------------|-----|----|------------|------------|---------|------|------|---|---|
| Taxidea taxus | American badger | Mammals | AMAJF04010 | 493 | 2 | None | None | G5 | S3 | null | CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern | bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Desert dunes, Desert wash, Freshwater marsh, Great Basin grassland, Great Basin scrub, Interior dunes, lone formation, Joshua tree woodland, Limestone, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Mojavean desert scrub, Montane dwarf scrub, North coast coniferous forest, Oldgrowth, Pavement plain, Redwood, Riparian forest, Riparian scrub, Riparian woodland, Salt marsh, Sonoran desert scrub, Sonoran thorn woodland, Ultramafic, Upper montane coniferous forest, Upper Sonoran scrub, Valley & foothill grassland |
| Thamnophis hammondi | two-striped gartersnake | Reptiles | ARADB36160 | 147 | 7 | None | None | G4 | S3S4 | null | BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive | Marsh & swamp, Riparian scrub, Riparian woodland, Wetland |
| Thelypteris puberula var. sonorensis | Sonoran maiden fern | Ferns | PPTHE05192 | 21 | 1 | None | None | G5T3 | S2 | 2B.2 | USFS_S-Sensitive | Meadow & seep, Wetland |
| Thysanocarpus rigidus | rigid fringepod | Dicots | PDBRA2Q070 | 5 | 1 | None | None | G1G2 | S1 | 1B.2 | BLM_S-Sensitive, USFS_S-Sensitive | Pinon & juniper woodlands |
| Viola pinetorum var. grisea | grey-leaved violet | Dicots | PDVIO04431 | 59 | 1 | None | None | G4G5T3? | S3? | 1B.3 | null | Meadow & seep, Subalpine coniferous forest, Upper montane coniferous forest |
| Vireo bellii pusillus | least Bell's vireo | Birds | ABPBW01114 | 468 | 29 | Endangered | Endangered | G5T2 | S2 | null | IUCN_NT-Near Threatened, NABCI_YWL-Yellow Watch List | Riparian forest, Riparian scrub, Riparian woodland |
| Walnut Forest | Walnut Forest | Forest | CTT81600CA | 6 | 3 | None | None | G1 | S1.1 | null | null | Broadleaved upland forest |

Plant List

73 matches found. Click on scientific name for details

Search Criteria

Found in 9 Quads around 34117A6

| Scientific Name | Common Name | Family | Lifeform | Rare Plant Rank | State Rank | Global Rank |
|---|------------------------------|----------------|----------------------------|-----------------|------------|-------------|
| Abronia villosa var. aurita | chaparral sand-verbena | Nyctaginaceae | annual herb | 1B.1 | S2 | G5T2T3 |
| Acanthoscyphus parishii var. parishii | Parish's oxytheca | Polygonaceae | annual herb | 4.2 | S3S4 | G4?T3T4 |
| Amaranthus watsonii | Watson's amaranth | Amaranthaceae | annual herb | 4.3 | S3 | G4G5 |
| Androsace elongata ssp. acuta | California androsace | Primulaceae | annual herb | 4.2 | S3S4 | G5?T3T4 |
| Arctostaphylos glandulosa ssp. gabrielensis | San Gabriel manzanita | Ericaceae | perennial evergreen shrub | 1B.2 | S2 | G5T2 |
| Asplenium vesperinum | western spleenwort | Aspleniaceae | perennial rhizomatous herb | 4.2 | S4 | G4 |
| Astragalus bicristatus | crested milk-vetch | Fabaceae | perennial herb | 4.3 | S3 | G3 |
| Astragalus brauntonii | Braunton's milk-vetch | Fabaceae | perennial herb | 1B.1 | S2 | G2 |
| Atriplex coulteri | Coulter's saltbush | Chenopodiaceae | perennial herb | 1B.2 | S1S2 | G3 |
| Atriplex serenana var. davidsonii | Davidson's saltscale | Chenopodiaceae | annual herb | 1B.2 | S1 | G5T1 |
| Berberis nevini | Nevin's barberry | Berberidaceae | perennial evergreen shrub | 1B.1 | S1 | G1 |
| Brodiaea filifolia | thread-leaved brodiaea | Themidaceae | perennial bulbiferous herb | 1B.1 | S2 | G2 |
| California macrophylla | round-leaved filaree | Geraniaceae | annual herb | 1B.2 | S3? | G3? |
| Calochortus catalinae | Catalina mariposa lily | Liliaceae | perennial bulbiferous herb | 4.2 | S4 | G4 |
| Calochortus clavatus var. gracilis | slender mariposa lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S2S3 | G4T2T3 |
| Calochortus plummerae | Plummer's mariposa lily | Liliaceae | perennial bulbiferous herb | 4.2 | S4 | G4 |
| Calochortus weedii var. intermedius | intermediate mariposa lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S2 | G3G4T2 |
| Calystegia felix | lucky morning-glory | Convolvulaceae | annual rhizomatous herb | 3.1 | SH | GHQ |
| Camissoniopsis lewisii | Lewis' evening-primrose | Onagraceae | annual herb | 3 | S4 | G4 |
| Centromadia parryi ssp. australis | southern tarplant | Asteraceae | annual herb | 1B.1 | S2 | G3T2 |
| Centromadia pungens ssp. laevis | smooth tarplant | Asteraceae | annual herb | 1B.1 | S2 | G3G4T2 |
| Chorizanthe leptotheca | Peninsular spineflower | Polygonaceae | annual herb | 4.2 | S3 | G3 |
| Chorizanthe parryi var. parryi | Parry's spineflower | Polygonaceae | annual herb | 1B.1 | S3 | G3T3 |
| Cladium californicum | California sawgrass | Cyperaceae | perennial rhizomatous herb | 2B.2 | S2 | G4 |
| Claytonia lanceolata var. peirsonii | Peirson's spring beauty | Montiaceae | perennial herb | 3.1 | S2 | G5T2Q |
| Convolvulus simulans | small-flowered morning-glory | Convolvulaceae | annual herb | 4.2 | S4 | G4 |
| Deinandra paniculata | paniculate tarplant | Asteraceae | annual herb | 4.2 | S4 | G4 |
| Dodecahema leptoceras | slender-horned spineflower | Polygonaceae | annual herb | 1B.1 | S1 | G1 |
| Dudleya densiflora | San Gabriel Mountains | Crassulaceae | perennial herb | 1B.1 | S2 | G2 |

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|--|-----------------------------------|---------------|----------------------------|------|------|------|
| <u><i>Dudleya multicaulis</i></u> | many-stemmed dudleya | Crassulaceae | perennial herb | 1B.2 | S2 | G2 |
| <u><i>Eriastrum densifolium</i> ssp. <i>sanctorum</i></u> | Santa Ana River woollystar | Polemoniaceae | perennial herb | 1B.1 | S1 | G4T1 |
| <u><i>Eriogonum microthecum</i> var. <i>alpinum</i></u> | northern limestone buckwheat | Polygonaceae | perennial herb | 4.3 | S4 | G5T4 |
| <u><i>Eriogonum microthecum</i> var. <i>johnstonii</i></u> | Johnston's buckwheat | Polygonaceae | perennial deciduous shrub | 1B.3 | S2 | G5T2 |
| <u><i>Eriogonum umbellatum</i> var. <i>minus</i></u> | alpine sulfur-flowered buckwheat | Polygonaceae | perennial herb | 4.3 | S4 | G5T4 |
| <u><i>Fimbristylis thermalis</i></u> | hot springs fimbristylis | Cyperaceae | perennial rhizomatous herb | 2B.2 | S1S2 | G4 |
| <u><i>Galium angustifolium</i> ssp. <i>gabrielense</i></u> | San Antonio Canyon bedstraw | Rubiaceae | perennial herb | 4.3 | S3 | G5T3 |
| <u><i>Galium johnstonii</i></u> | Johnston's bedstraw | Rubiaceae | perennial herb | 4.3 | S4 | G4 |
| <u><i>Heuchera caespitosa</i></u> | urn-flowered alumroot | Saxifragaceae | perennial rhizomatous herb | 4.3 | S3 | G3 |
| <u><i>Horkelia cuneata</i> var. <i>puberula</i></u> | mesa horkelia | Rosaceae | perennial herb | 1B.1 | S1 | G4T1 |
| <u><i>Imperata brevifolia</i></u> | California satintail | Poaceae | perennial rhizomatous herb | 2B.1 | S3 | G3 |
| <u><i>Juglans californica</i></u> | Southern California black walnut | Juglandaceae | perennial deciduous tree | 4.2 | S3 | G3 |
| <u><i>Juncus duranii</i></u> | Duran's rush | Juncaceae | perennial rhizomatous herb | 4.3 | S3 | G3 |
| <u><i>Lepechinia fragrans</i></u> | fragrant pitcher sage | Lamiaceae | perennial shrub | 4.2 | S3 | G3 |
| <u><i>Lepidium virginicum</i> var. <i>robinsonii</i></u> | Robinson's pepper-grass | Brassicaceae | annual herb | 4.3 | S3 | G5T3 |
| <u><i>Lilium humboldtii</i> ssp. <i>ocellatum</i></u> | ocellated Humboldt lily | Liliaceae | perennial bulbiferous herb | 4.2 | S3 | G4T3 |
| <u><i>Lilium parryi</i></u> | lemon lily | Liliaceae | perennial bulbiferous herb | 1B.2 | S3 | G3 |
| <u><i>Linanthus concinnus</i></u> | San Gabriel linanthus | Polemoniaceae | annual herb | 1B.2 | S3 | G3 |
| <u><i>Monardella australis</i> ssp. <i>jokerstii</i></u> | Jokerst's monardella | Lamiaceae | perennial rhizomatous herb | 1B.1 | S1 | G4T1 |
| <u><i>Monardella macrantha</i> ssp. <i>hallii</i></u> | Hall's monardella | Lamiaceae | perennial rhizomatous herb | 1B.3 | S3 | G5T3 |
| <u><i>Monardella saxicola</i></u> | rock monardella | Lamiaceae | perennial rhizomatous herb | 4.2 | S3 | G3 |
| <u><i>Muhlenbergia californica</i></u> | California muhly | Poaceae | perennial rhizomatous herb | 4.3 | S4 | G4 |
| <u><i>Navarretia prostrata</i></u> | prostrate vernal pool navarretia | Polemoniaceae | annual herb | 1B.1 | S2 | G2 |
| <u><i>Oreonana vestita</i></u> | woolly mountain-parsley | Apiaceae | perennial herb | 1B.3 | S3 | G3 |
| <u><i>Orobanche valida</i> ssp. <i>valida</i></u> | Rock Creek broomrape | Orobanchaceae | perennial herb (parasitic) | 1B.2 | S2 | G4T2 |
| <u><i>Parnassia cirrata</i> var. <i>cirrata</i></u> | San Bernardino grass-of-Parnassus | Parnassiaceae | perennial herb | 1B.3 | S2 | G5T2 |
| <u><i>Phacelia hubbyi</i></u> | Hubby's phacelia | Boraginaceae | annual herb | 4.2 | S4 | G4 |
| <u><i>Phacelia mohavensis</i></u> | Mojave phacelia | Boraginaceae | annual herb | 4.3 | S4 | G4Q |
| <u><i>Phacelia stellaris</i></u> | Brand's star phacelia | Boraginaceae | annual herb | 1B.1 | S1 | G1 |
| <u><i>Pseudognaphalium leucocephalum</i></u> | white rabbit-tobacco | Asteraceae | perennial herb | 2B.2 | S2 | G4 |
| <u><i>Quercus durata</i> var. <i>gabrielensis</i></u> | San Gabriel oak | Fagaceae | perennial evergreen shrub | 4.2 | S3 | G4T3 |
| <u><i>Quercus engelmannii</i></u> | Engelmann oak | Fagaceae | perennial deciduous tree | 4.2 | S3 | G3 |
| <u><i>Romneya coulteri</i></u> | Coulter's matilija poppy | Papaveraceae | perennial rhizomatous herb | 4.2 | S4 | G4 |

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|--|------------------------------|------------------|----------------------------|------|------|---------|
| Sagittaria sanfordii | Sanford's arrowhead | Alismataceae | perennial rhizomatous herb | 1B.2 | S3 | G3 |
| Senecio aphanactis | chaparral ragwort | Asteraceae | annual herb | 2B.2 | S2 | G3 |
| Senecio astephanus | San Gabriel ragwort | Asteraceae | perennial herb | 4.3 | S3 | G3 |
| Sidalcea neomexicana | salt spring checkerbloom | Malvaceae | perennial herb | 2B.2 | S2 | G4 |
| Sidotheca caryophylloides | chickweed oxytheca | Polygonaceae | annual herb | 4.3 | S4 | G4 |
| Streptanthus bernardinus | Laguna Mountains jewelflower | Brassicaceae | perennial herb | 4.3 | S3S4 | G3G4 |
| Symphyotrichum defoliatum | San Bernardino aster | Asteraceae | perennial rhizomatous herb | 1B.2 | S2 | G2 |
| Symphyotrichum greatae | Greata's aster | Asteraceae | perennial rhizomatous herb | 1B.3 | S2 | G2 |
| Thelypteris puberula var. sonorensis | Sonoran maiden fern | Thelypteridaceae | perennial rhizomatous herb | 2B.2 | S2 | G5T3 |
| Thysanocarpus rigidus | rigid fringedpod | Brassicaceae | annual herb | 1B.2 | S1 | G1G2 |
| Viola pinetorum var. grisea | grey-leaved violet | Violaceae | perennial herb | 1B.3 | S3? | G4G5T3? |

Suggested Citation

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ATTACHMENT E

SPECIAL STATUS PLANT SPECIES KNOWN TO OCCUR IN THE PROJECT REGION

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|--|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Acanthoscyphus parishii</i> var. <i>parishii</i> Parish's oxytheca | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Amaranthus watsonii</i> Watson's amaranth | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Androsace elongata</i> ssp. <i>acuta</i> California androsace | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i> San Gabriel manzanita | - | - | 1B.2 | Not expected to occur; |
| <i>Asplenium vesperinum</i> western spleenwort | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Astragalus bicristatus</i> crested milk-vetch | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Astragalus brauntonii</i> Braunton's milk-vetch | FE | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Atriplex coulteri</i> Coulter's saltbush | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Atriplex serenana</i> var. <i> davidsonii</i> Davidson's saltscale | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Berberis nevinii</i> Nevin's barberry | FE | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Brodiaea filifolia</i> thread-leaved brodiaea | FT | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>California macrophylla</i> round-leaved filaree | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus catalinae</i> Catalina mariposa lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus clavatus</i> var. <i>gracilis</i> slender mariposa lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus plummerae</i> Plummer's mariposa lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calochortus weedii</i> var. <i>intermedius</i> intermediate mariposa lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Calystegia felix</i> lucky morning-glory | - | - | 3.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Camissoniopsis lewisii</i> Lewis' evening-primrose | | | 3 | Not expected to occur; no potentially suitable habitat present |
| <i>Centromadia parryi</i> ssp. <i>australis</i> southern tarplant | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Chorizanthe leptotheca</i> Peninsular spineflower | | | 4.2 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|--|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Cladium californicum</i> California sawgrass | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Claytonia lanceolata</i> var. <i>peirsonii</i> Peirson's spring beauty | - | - | 3.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Convolvulus simulans</i> small-flowered morning-glory | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Deinandra paniculata</i> paniculate tarplant | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Dodecahema leptoceras</i> slender-horned spineflower | FE | SE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Dudleya densiflora</i> San Gabriel Mountains dudleya | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Dudleya multicaulis</i> many-stemmed dudleya | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> Santa Ana River woollystar | FE | CE | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum microthecum</i> var. <i>alpinum</i> northern limestone buckwheat | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum microthecum</i> Johnston's buckwheat | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Eriogonum umbellatum</i> var. <i>minus</i> alpine sulfur-flowered buckwheat | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Fimbristylis thermalis</i> hot springs fimbriatylis | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Galium angustifolium</i> ssp. <i>gabrielense</i> San Antonio Canyon bedstraw | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Galium johnstonii</i> Johnston's bedstraw | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Heuchera caespitosa</i> urn-flowered alumroot | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Horkelia cuneata</i> ssp. <i>puberula</i> mesa horkelia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Imperata brevifolia</i> California satintail | - | - | 2B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Juglans californica</i> Southern California black walnut | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Juncus duranii</i> Duran's rush | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Lepechinia fragrans</i> fragrant pitcher sage | | | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|---|--------|------|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Lilium humboldtii</i> ssp. <i>ocellatum</i> ocellated Humboldt lily | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Lilium parryi</i> lemon lily | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Linanthus concinnus</i> San Gabriel linanthus | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella australis</i> ssp. <i>jokerstii</i> Jokerst's monardella | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Monardella saxicola</i> rock monardella | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Muhlenbergia californica</i> California muhly | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Navarretia prostrata</i> prostrate vernal pool navarretia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Oreonana vestita</i> woolly mountain-parsley | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Orobanche valida</i> ssp. <i>valida</i> Rock Creek broomrape | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Parnassia cirrata</i> var. <i>cirrata</i> San Bernardino grass-of-Parnassus | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia hubbyi</i> Hubby's phacelia | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia mohavensis</i> Mojave phacelia | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Phacelia stellaris</i> Brand's star phacelia | - | - | 1B.1 | Not expected to occur; no potentially suitable habitat present |
| <i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Quercus durata</i> var. <i>gabrielensis</i> San Gabriel oak | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Quercus engelmannii</i> Engelmann oak | - | - | 4.2 | Not expected to occur; not observed during field survey |
| <i>Romneya coulteri</i> Coulter's matilija poppy | - | - | 4.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Sagittaria sanfordii</i> Sanford's arrowhead | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Senecio aphanactis</i> chaparral ragwort | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Senecio astephanus</i> San Gabriel ragwort | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Sidalcea neomexicana</i> salt spring checkerbloom | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |

**TABLE E-1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | | Habitat Suitability on the Project Site and Likelihood for Occurrence |
|---|--|---|------|---|
| | USFWS | CDFW | CRPR | |
| <i>Sidotheca caryophylloides</i> chickweed oxytheca | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Streptanthus bernardinus</i> Laguna Mountains jewelflower | - | - | 4.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Symphotrichum defoliatum</i> San Bernardino aster | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Symphotrichum greatae</i> Greata's aster | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| <i>Thelypteris puberula</i> var. <i>sonorensis</i> Sonoran maiden fern | - | - | 2B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Thysanocarpus rigidus</i> rigid fringedpod | - | - | 1B.2 | Not expected to occur; no potentially suitable habitat present |
| <i>Viola pinetorum</i> var. <i>grisea</i> grey-leaved violet | - | - | 1B.3 | Not expected to occur; no potentially suitable habitat present |
| USFWS: U.S. Fish and Wildlife Service; CDFW: California Department of Fish and Wildlife; CRPR: California Rare Plant Rank | | | | |
| LEGEND | | | | |
| Federal (USFWS) | | State (CDFW) | | |
| FE Endangered | | SE Endangered, CE Candidate for listing as Endangered | | |
| CRPR List Categories | | | | |
| List 1B | Plants Rare, Threatened, or Endangered in California and Elsewhere | | | |
| List 2B | Plants Endangered in California | | | |
| List 3 | Plants that Need Review | | | |
| List 4 | Plants Uncommon in California | | | |
| CRPR Threat Rank Extensions | | | | |
| .1 | Seriously threatened in California | | | |
| .2 | Fairly threatened in California | | | |
| .3 | Not very endangered in California | | | |

ATTACHMENT F

SPECIAL STATUS WILDLIFE SPECIES KNOWN TO OCCUR IN THE PROJECT REGION

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|--|--------|-------|--|
| | USFWS | CDFW | |
| Invertebrates | | | |
| <i>Bombus crotchii</i> Crotch bumble bee | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Callophrys mossii hidakupa</i> San Gabriel Mountains elfin butterfly | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Diplectrona californica</i> California diplectronan caddisfly | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly | FE | - | Not expected to occur, no potentially suitable habitat present. |
| Fish | | | |
| <i>Catostomus santaanae</i> Santa Ana sucker | FT | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Gila orcuttii</i> Arroyo chub | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Rhinichthys osculus ssp. 3</i> Santa Ana speckled dace | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| Amphibians | | | |
| <i>Anaxyrus californicus</i> Arroyo toad | FE | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Batrachoseps gabrieli</i> San Gabriel slender salamander | - | - | Not expected to occur, no potentially suitable habitat present. |
| <i>Ensatina klauberi</i> Large-blotched salamander | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Lithobates pipiens</i> northern leopard frog | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Rana muscosa</i> Southern mountain yellow-legged frog | FE | SE/WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Taricha torosa</i> Coast Range newt | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| Reptiles | | | |
| <i>Anniella pulchra</i> Silvery legless lizard | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aspidoscelis hyperythra</i> Orangethroat whiptail | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Aspidoscelis tigris stejnegeri</i> Coastal whiptail | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Coleonyx variegatus abbotti</i> San Diego banded gecko | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Crotalus ruber</i> Red-diamond rattlesnake | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Emys marmorata</i> Western pond turtle | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lampropeltis zonata (parvirubra)</i> California mountain kingsnake (San Bernardino population) | - | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Phrynosoma blainvillii</i> Coast (San Diego) horned lizard | - | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Salvadora hexalepis virgulata</i> Coast patch-nosed snake | - | SSC | Not expected to occur, no potentially suitable habitat present. |

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|---|--------|------|--|
| | USFWS | CDFW | |
| <i>Thamnophis hammondi</i> Two-striped garter snake | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| Birds | | | |
| <i>Agelaius tricolor</i> Tri-colored blackbird | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Ammodramus savannarum</i> Grasshopper sparrow | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Aquila chrysaetos</i> Golden eagle | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Artemisiospiza belli belli</i> Bell's sage sparrow | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Asio otus</i> Long-eared owl | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Athene cunicularia</i> Burrowing owl | – | SSC | Not expected to occur; based on Phase II survey results including a lack of: potentially suitable burrows, sufficient habitat acreage, and connectivity to potentially suitable habitat. |
| <i>Buteo swainsoni</i> Swainson's hawk | – | ST | Not expected to occur, no potentially suitable habitat present. |
| <i>Campylorhynchus brunneicapillus sandiegensis</i> Coastal cactus wren | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo | FT | SE | Not expected to occur, no potentially suitable habitat present. |
| <i>Cypseloides niger</i> Black swift | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Elanus leucurus</i> White-tailed kite | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Empidonax traillii extimus</i> Southwestern willow flycatcher | FE | SE | Not expected to occur, no potentially suitable habitat present. |
| <i>Falco columbarius</i> Merlin | – | WL | Not expected to occur, no potentially suitable habitat present. |
| <i>Icteria virens</i> Yellow-breasted chat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Polioptila californica californica</i> Coastal California gnatcatcher | FT | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Setophaga petechial</i> Yellow warbler | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Vireo bellii pusillus</i> Least Bell's vireo | FE | SE | Not expected to occur, no potentially suitable habitat present. |
| Mammals | | | |
| <i>Antrozous pallidus</i> Pallid bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Chaetodipus fallax fallax</i> Northwestern San Diego pocket mouse | – | SSC | Not expected to occur, no potentially suitable habitat present. |

**TABLE F-1
SPECIAL STATUS WILDLIFE SPECIES REPORTED
FROM THE PROJECT SITE VICINITY**

| Species | Status | | Habitat Suitability Within the Survey Area and Likelihood for Occurrence |
|---|-------------------|---------------------|--|
| | USFWS | CDFW | |
| <i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat | FE | SSC | Not expected to occur, no potentially suitable habitat present |
| <i>Dipodomys stephensi</i> Stephens' kangaroo rat | FE | ST | Not expected to occur, no potentially suitable habitat present |
| <i>Eumops perotis californicus</i> Western mastiff bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lasiurus cinereus</i> Hoary bat | – | – | Not expected to occur, no potentially suitable habitat present. |
| <i>Lasiurus xanthinus</i> Western yellow bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Myotis yumanensis</i> Yuma myotis | – | – | Not expected to occur, no potentially suitable habitat present. |
| <i>Neotoma lepida intermedia</i> San Diego desert woodrat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Nyctinomops femorosaccus</i> Pocketed free-tailed bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Nyctinomops macrotis</i> Big free-tailed bat | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Ovis Canadensis nelson</i> Desert bighorn sheep | – | FP | Not expected to occur, no potentially suitable habitat present. |
| <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| <i>Taxidea taxus</i> American badger | – | SSC | Not expected to occur, no potentially suitable habitat present. |
| USFWS: U.S. Fish and Wildlife Service, CDFW: California Department of Fish and Wildlife | | | |
| LEGEND | | | |
| Federal (USFWS) | | State (CDFW) | |
| FE | Endangered | SE | Endangered |
| FT | Threatened | ST | Threatened |
| FC | Candidate Species | SSC | Species of Special Concern |
| | | WL | Watch List |
| | | FP | Fully Protected |
| Note: Scientific and common names for wildlife species follow the most current list of Special Animals (July 2016) available from the California Department of Fish and Game (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406). | | | |

APPENDIX G

Francis Avenue Residential Development
City of Chino
San Bernardino County, California



South side of property facing northwest. The property is dominated by developed and disturbed areas.



South side of property facing north.

Francis Avenue Residential Development
City of Chino
San Bernardino County, California



East side of property facing west.



East side of property facing north west.