City of Redlands



January 10, 2023 3151 Airway Avenue, Suite F208 Costa Mesa, CA 92626

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### Subject: Biological Resources Letter Report for the Proposed Redlands Used-Car Retail Development Project Located in the City of Redlands, California

Chambers Group was retained by the City of Redlands (City) to conduct a literature review and biological reconnaissance-level survey for the proposed Used-Car Retail Development Project (Project). The purpose of this survey was to provide a habitat assessment for the Project. The survey consisted of documenting existing vegetation communities, identifying special status species with a potential to occur on the Project, mapping habitats that could support special status plant and wildlife species, identifying any potentially jurisdictional water features, and evaluating potential impacts of the Project to these resources.

### Project Site Location and Description

The approximately 18.6-acre Project site is located within undeveloped parcels in the City, in San Bernardino County, west of New York Street at West Brockton Avenue and east of Interstate (I-) 210 between an existing home improvement retailer to the north and automobile dealership to the south (Project site). A channelized drainage is present between I-210 and the western boundary of the Project site. The Project site is located within the U.S. Geological Survey (USGS) Redlands California 7.5-minute topographic quadrangle. The Project site has relatively flat terrain with an elevation of approximately 1,290 feet above mean sea level (amsl). The site is vacant and regularly disced for weed abatement. The Project site is located within the East Valley Corridor Specific Plan (Specific Plan) at the following Assessor's Parcel Numbers: APN 0169-011-39 and APN 0169-011-38. A map of the Project location and Project vicinity is provided in Attachment 1: Figure 1 – Project Location and Vicinity Map.

The proposed Project is the amendment to the Specific Plan to permit the construction of a pre-owned automobile sales, refurbishing, and reconditioning facility with outdoor vehicle storage.

### Literature Review

Prior to performing the biological reconnaissance survey, a literature review was conducted for soils, potential jurisdictional water features that contribute to hydrology, and special status species known to occur within approximately 5 miles of the Project site.

### Soils

Prior to performing the biological reconnaissance survey, soil maps for the Project site were referenced in accordance with categories set forth by the U.S. Department of Agriculture (USDA) Soil Conservation Service and the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2023).

### Hydrology

Prior to performing the biological reconnaissance survey, a database review of the U.S. Fish and Wildlife Service's (USFWS) National Wetlands Inventory (NWI; USFWS 2023a) and the USGS National Hydrography Dataset (NHD) blueline drainages was conducted (USGS 2023). A general assessment of waters potentially regulated by the U.S. Army Corps of





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Engineers (USACE), California Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) was conducted for the Project site. In addition, Google Earth aerial imagery was examined for any potentially jurisdictional features within or immediately adjacent to the Project Site.

### Special Status Species and Habitats

The most recent records of the California Natural Diversity Database (CNDDB) managed by CDFW (2023) and the California Native Plant Society's (CNPS) Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California (CNPS 2023) were reviewed for the following California USGS 7.5-minute quadrangles containing and surrounding the Project within a 5-mile radius: *Redlands, San Bernardino North, San Bernardino South, Riverside East, Sunnymead, El Casco, Yucaipa, Keller Peak, and Harrison Mountain.* These databases contain records of reported occurrences of federal- or state- listed endangered or threatened species, California Species of Special Concern (SSC), or otherwise special status species or habitats that may occur within or in the immediate vicinity of the Project site (Attachment 1: Figure 2 – CNDDB Occurrences Map). In addition, the USFWS's Information for Planning and Conservation (IPaC) site was searched for federally listed threatened and/or endangered species and critical habitat that could potentially be affected by the Project (USFWS 2023b) and the USFWS Critical Habitat (USFWS 2023c).

Results of the literature and database searches are included as Attachment 2.

### Biological Reconnaissance Survey Methods

The biological reconnaissance survey was conducted on foot within the Project site. During the survey, the biologists identified and mapped all vegetation communities found within the site onto aerial photographs (Attachment 1: Figure 3 – Vegetation Communities Map). Plant communities were determined in accordance with the *Manual of California Vegetation, Second Edition* (Sawyer et al. 2009). Plant nomenclature follows that of *The Jepson Manual, Vascular Plants of California, Second Edition* (Baldwin et al. 2012). All wildlife and wildlife sign observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Notes were made on the general habitat types, species observed, and existing conditions of the Project site. All plant and wildlife species observed or detected within the Project site are included in Attachments 3 and 4, respectively. The Project site was field checked for the presence of riparian vegetation, definable channels, and other potentially jurisdictional features identified during the literature search. Site photographs were taken to document existing conditions at the time of the survey and are included in Attachment 5.

### **Biological Reconnaissance Survey Results**

Chambers Group biologists Alisa Muniz and Austin Burke conducted the biological reconnaissance survey within the Project site to identify vegetation communities, the potential for occurrence of special status species, and/or habitats that could support special status wildlife species. The survey was conducted on foot between 0700 and 1200 hours on December 18, 2023. Weather conditions during the survey included temperatures ranging from 57 to 71 degrees Fahrenheit, wind speeds ranging from 0 to 3 miles per hour, approximately 70 percent cloud cover, and no precipitation.

### Soils

According to the results from the USDA NRCS Web Soil Survey (USDA 2023), one soil type is known to occur within and immediately adjacent to the Project site. The soil type is described below.

 Tujunga loamy sand 0 to 5 percent slopes occurs throughout the entire Project site. The parent material is alluvium derived from granite. The available water storage is classified as low (approximately 4.2 inches) with a depth to the water table of more than 80 inches. Tujunga loamy sand is not a hydric soil (USDA 2023).



2

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### Hydrology

No potentially jurisdictional water features such as drainages were observed within the Project site (Attachment 1: Figure 4 – NWI and NHD Map) during the survey. The closest water features mapped by the NWI and NHD, both riverine, are over a half mile from the Project site: the Santa Ana River to the north, and the Mission Flood Control Ditch to the south. Because both features are located well outside of the Project site boundary and no work is anticipated to occur within or directly adjacent to either feature, no impacts to these features are anticipated to occur as a result of this Project.

A potentially jurisdictional drainage identified on aerial imagery during the literature search is located west (outside) of the Project site and east of I-210. This feature is a channelized, concrete-lined drainage that is located approximately 15 feet from the northwestern corner of the Project site at its closest point. The drainage begins west of New York Street just north of I-10 and continues for approximately 2 miles, generally paralleling I-210, before connecting to the Santa Ana River. The channel appears to transition from a concrete-lined channel to an earthen channel (the last approximately 0.45 mile before joining the Santa Ana River) near Domestic Avenue and becomes more vegetated at this point. The field survey confirmed the presence of this drainage west of the Project site. As the Project site is fenced on the west side, the biologists were not able to inspect the drainage feature up close, but noted that the feature was concrete lined and appeared to be dry. As mentioned, this drainage is outside of the Project site and would not be directly affected by the Project based on current Project design.

No riparian, wetland or vernal pool habitats were found within or adjacent to the Project site.

### Vegetation Communities and Other Areas

One vegetation community and one land cover type were found within the Project site during the biological reconnaissance survey: Ruderal and Developed. The majority of the Project site is comprised of Ruderal vegetation with Developed areas bordering the eastern side. The community and land cover type are described in the following subsections.

### Ruderal

Areas classified as Ruderal tend to be dominated by pioneering herbaceous species that readily colonize disturbed ground and that are typically found in temporary, often frequently disturbed habitats (Barbour et al. 1999). The soils in Ruderal areas are typically characterized as heavily compacted or frequently disturbed. Often, Ruderal areas are dominated by species of the *Centaurea*, *Brassica*, *Malva*, *Salsola*, *Amaranthus*, and *Atriplex* genera.

The majority of the Project site is classified as Ruderal (Attachment 1: Figure 3 – Vegetation Communities Map). This area contains evidence of disc-mowing and tire tracks and is dominated by disturbed soil and scattered non-native weed species. Non-native plant species found on the Project site typical of this vegetation community include tumbling pigweed (*Amaranthus albus*), ripgut grass (*Bromus diandrus*), cheeseweed (*Malva parviflora*), red-stemmed filaree (*Erodium cicutarium*), London rocket (*Sysimbrium irio*), Sahara mustard (*Brassica tournefortii*), and Russian-thistle (*Salsola australis*). Though very scarce, native plants typical of this vegetation community within the Project site include common fiddleneck (*Amsinckia menziesii*) and jimson weed (*Datura wrightii*). There are approximately 18.52 acres of Ruderal areas on the Project site.

### Developed

Developed areas are those that have been altered by humans and now display man-made structures such as houses, paved roads, sidewalks, buildings, parks, and other maintained areas.

A small Developed area (i.e., a sidewalk) is present along the eastern border of the Project site (Attachment 1: Figure 3 – Vegetation Communities Map). There is approximately 0.11 acre of Developed areas on the Project site.



3

City of Redlands

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### **General Plants**

A total of 16 plant species were observed within the Project site during the biological reconnaissance survey (Attachment 3: Plant Species Observed). Plant species observed during the survey were representative of the existing Project site conditions. No special status plant species were observed during the survey.

### General Wildlife

A total of eight wildlife species were observed within the Project site during the biological reconnaissance survey (Attachment 4: Wildlife Species Observed or Detected). Wildlife species observed or detected during the survey were characteristic of the existing Project site conditions. No special status wildlife species were observed or detected during the survey.

### Special Status Species and Habitats

The following information is a list of abbreviations used to help determine the potential for occurrence of special status biological resources at the Project site.

### CNPS California Rare Plant Rank (CRPR)

| CIVEDC | amornia | inale |   |
|--------|---------|-------|---|
|        | 1A      | =     | Plants presumed extinct in California.  |
|        | 1B      | =     | Plants rare and endangered in California and throughout their range.                                    |
|        | 2       | =     | Plants rare, threatened or endangered in California but more common elsewhere in their                  |
|        |         |       | range.  |
|        | 3       | =     | Plants about which we need more information, a review list.   |
|        | 4       | =     | Plants of limited distribution; a watch list.   |
|        |         | CRPF  | t Extensions  |
|        |         | 0.1   | <ul> <li>Seriously endangered in California (greater than 80 percent of occurrences</li> </ul>          |
|        |         |       | threatened/high degree and immediacy of threat).  |
|        |         | 0.2   | <ul> <li>Fairly endangered in California (20 to 80 percent occurrences threatened).</li> </ul>          |
|        |         | 0.3   | <ul> <li>Not very endangered in California (less than 20 percent of occurrences threatened).</li> </ul> |
| Federa | I       |       |   |
|        | FE      | =     | Federally listed; Endangered  |
|        | FT      | =     | Federally listed; Threatened  |
| State  |         |       |   |
|        | ST      | =     | State listed; Threatened  |
|        | SE      | =     | State listed; Endangered  |
|        | FP      | =     | State Fully Protected   |
|        | SC      | =     | State Candidate for Listing   |
|        | RARE    | =     | State listed; Rare (Listed "Rare" animals have been re-designated as Threatened, but Rare               |
|        |         |       | plants have retained the Rare designation.)   |
|        | SSC     | =     | State Species of Special Concern  |
|        |         |       |   |

The criteria used to evaluate the potential for occurrence of special status species within the Project site are outlined in Table 1.





City of Redlands

### Table 1: Criteria for Evaluating Special Status Species Potential for Occurrence (PFO)

| PFO*                | CRITERIA  |
|---------------------|---|
| Absent:             | Species is restricted to habitats or environmental conditions that do not occur within the Project site.  |
| Low:                | Historical records for this species do not exist within the vicinity (approximately 5 miles) of the Project site, and/or habitats or environmental conditions needed to support the species are of poor quality.  |
| Moderate:           | Either a historical record exists of the species within the vicinity of the Project site<br>(approximately 5 miles) and marginal habitat exists on the Project site, or the habitat<br>requirements or environmental conditions associated with the species occur within the Project<br>site, but no historical records exist within 5 miles of the Project site. |
| High:               | Both a historical record exists of the species within the Project site or its immediate vicinity (approximately 1 mile), and the habitat requirements and environmental conditions associated with the species occur within the Project site.   |
| Present:            | Species were detected within the Project site at the time of the survey.  |
| *PFO: Potential for | r Occurrence  |

Factors used to determine the potential for a species to occur included the quality of habitat (elevation; soil type(s) present; the presence of roosting, nesting, or foraging habitat; or a permanent water source), the known geographical distribution of the species, and the results of the reconnaissance survey. In addition, the location of prior CNDDB records of occurrence were used as additional data, but because the CNDDB is a positive-sighting database, this data was used only in support of the analysis from the previously identified factors.

### Special Status Plant Species

Database searches (CDFW 2023; CNPS 2023) resulted in a list of 54 federal- and/or state-listed threatened, endangered, or otherwise special status plant species documented to historically occur within the vicinity of Project site (Attachment 1: Figure 2 – CNDDB Occurrences Map). Of the 54 special status plant species identified in the literature review, all 54 of the plants are considered absent within the Project site. No special status plant species were found during the biological reconnaissance survey.

The following 54 plant species are considered **Absent** from the Project site. These species grow in habitats which do not occur on the Project site (i.e., pinyon and juniper woodland, chaparral, cismontane woodland, coniferous forest, riparian woodland, coastal scrub, coastal dunes, coastal prairie, alluvial fans, desert scrub, playas, desert dunes, pebble plains, valley and foothill grasslands, meadows, seeps, vernal pools, marshes, and swamps) and/or occur outside of the elevational range of the Project site.

- Alvin Meadow bedstraw (Galium californicum ssp. primum) CRPR 1B.2
- ash-gray paintbrush (Castilleja cinerea) FT, CRPR 1B.2
- Bear Valley checkerbloom (Sidalcea malviflora ssp. dolosa) CRPR 1B.2
- bird-foot checkerbloom (Sidalcea pedata) FE, SE, CRPR 1B.1
- black bog-rush (Schoenus nigricans) CRPR 2B.2





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- Brand's star phacelia (Phacelia stellaris) CRPR 1B.1
- bristly sedge (Carex comosa) CRPR 2B.1
- California satintail (Imperata brevifolia) CRPR 2B.1
- chaparral ragwort (Senecio aphanactis) CRPR 2B.2
- chaparral sand-verbena (Abronia villosa var. aurita) CRPR 1B.1
- Coulter's goldfields (Lasthenia glabrata ssp. coulteri) CRPR 1B.1
- Davidson's saltscale (Atriplex serenana var. davidsonii) CRPR 1B.2
- Gambel's water cress (Nasturtium gambelii) FE, ST, CRPR 1B.1
- Hall's monardella (Monardella macrantha ssp. hallii) CRPR 1B.3
- Horn's milk-vetch (Astragalus hornii var. hornii) CRPR 1B.1
- hot springs fimbristylis (Fimbristylis thermalis) CRPR 2B.2
- Jaeger's milk-vetch (Astragalus pachypus var. jaegeri) CRPR 1B.1
- La Panza mariposa-lily (Calochortus simulans) CRPR 1B.3
- lemon lily (*Lilium parryi*) CRPR 1B.2
- Los Angeles sunflower (Helianthus nuttallii ssp. parishii) CRPR 1A
- marsh sandwort (Arenaria paludicola) FE, SE, CRPR 1B.1
- mesa horkelia (Horkelia cuneata var. puberula) CRPR 1B.1
- Mt. Pinos onion (Allium howellii var. clokeyi) CRPR 1B.3
- mud nama (*Nama stenocarpa*) CRPR 2B.2
- Nevin's barberry (Berberis nevinii) FE, SE, CRPR 1B.2
- Palmer's mariposa-lily (Calochortus palmeri var. palmeri) CRPR 1B.2
- Parish's alumroot (Heuchera parishii) CRPR 1B.3
- Parish's bush-mallow (Malacothamnus parishii) CRPR 1A
- Parish's checkerbloom (Sidalcea hickmanii ssp. parishii) RARE, CRPR 1B.2
- Parish's desert-thorn (Lycium parishii) CRPR 2B.3
- Parish's gooseberry (Ribes divaricatum var. parishii) CRPR 1A
- Parish's yampah (Perideridia parishii ssp. parishii) CRPR 2B.2
- Parry's spineflower (Chorizanthe parryi var. parryi) CRPR 1B.1
- Peruvian dodder (*Cuscuta obtusiflora* var. *glandulosa*) CRPR 2B.2
- prairie wedge grass (Sphenopholis obtusata) CRPR 2B.2
- Pringle's monardella (Monardella pringlei) CRPR 1A
- salt marsh bird's-beak (Chloropyron maritimum ssp. maritimum) FE, SE, CRPR 1B.2
- salt spring checkerbloom (*Sidalcea neomexicana*) CRPR 2B.2
- San Bernardino aster (Symphyotrichum defoliatum) CRPR 1B.2
- San Bernardino Mountains monkeyflower (*Erythranthe exigua*) CRPR 1B.2
- San Bernardino Mountains owl's-clover (Castilleja lasiorhyncha) CRPR 1B.2
- San Bernardino ragwort (Packera bernardina) CRPR 1B.2
- San Diego ambrosia (Ambrosia pumila) FE, CRPR 1B.1



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- San Jacinto Valley crownscale (Atriplex coronata var. notatior) FE, CRPR 1B.1
- Santa Ana River woollystar (Eriastrum densifolium ssp. sanctorum) FE, SE, CRPR 1B.1
- silver-haired ivesia (Ivesia argyrocoma var. argyrocoma) CRPR 1B.2
- slender-horned spineflower (Dodecahema leptoceras) FE, SE, CRPR 1B.1
- smooth tarplant (Centromadia pungens ssp. laevis) CRPR 1B.1
- Sonoran maiden fern (Pelazoneuron puberulum var. sonorense) CRPR 2B.2
- southern jewelflower (Streptanthus campestris) CRPR 1B.3
- thread-leaved brodiaea (Brodiaea filifolia) FT, SE, CRPR 1B.1
- white-bracted spineflower (Chorizanthe xanti var. leucotheca) CRPR 1B.2
- Wright's trichocoronis (Trichocoronis wrightii var. wrightii) CRPR 2B.1
- Yucaipa onion (Allium marvinii) CRPR 1B.2

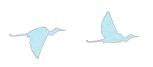
### Special Status Wildlife Species

Database searches (CDFW 2023; USFWS 2023b) resulted in a list of 48 federal- and/or state-listed endangered or threatened, state SSC, or otherwise special status wildlife species documented to occur within the Project site (Attachment 1: Figure 2 – CNDDB Occurrences Map). After a literature review and the assessment of the various habitat types within the Project site, it was determined that 47 special status wildlife species are considered absent and 1 has a low potential to occur within the Project site. No special status wildlife species were found during the biological reconnaissance survey.

The following 47 wildlife species are considered **Absent** from the Project site due to the absence of suitable habitat present within the site:

- American badger (Taxidea taxus) SSC
- arroyo chub (Gila orcuttii) SSC
- bald eagle (Haliaeetus leucocephalus) SE, FP
- California black rail (Laterallus jamaicensis coturniculus) ST, FP
- California glossy snake (Arizona elegans occidentalis) SSC
- California red-legged frog (Rana draytonii) FT, SSC
- coast horned lizard (Phrynosoma blainvillii) SSC
- coast patch-nosed snake (Salvadora hexalepis virgultea) SSC
- coastal California gnatcatcher (Polioptila californica californica) FT, SSC
- coastal whiptail (Aspidoscelis tigris stejnegeri) SSC
- Crotch bumble bee (*Bombus crotchii*) SC
- Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis) FE
- golden eagle (Aquila chrysaetos) FP
- least Bell's vireo (Vireo bellii pusillus) FE, SE
- lesser long-nosed bat (Leptonycteris yerbabuenae) SSC
- loggerhead shrike (Lanius ludovicianus) SSC
- Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) SSC
- pallid bat (Antrozous pallidus) SSC
- pocketed free-tailed bat (Nyctinomops femorosaccus) SSC





City of Redlands

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- quino checkerspot butterfly (Euphydryas editha quino) FE
- red-diamond rattlesnake (Crotalus ruber) SSC
- Riverside fairy shrimp (Streptocephalus woottoni) FE
- San Bernardino flying squirrel (Glaucomys oregonensis californicus) SSC
- San Bernardino kangaroo rat (Dipodomys merriami parvus) FE, SE, SSC
- San Diego banded gecko (*Coleonyx variegatus abbotti*) SSC
- San Diego desert woodrat (Neotoma lepida intermedia) SSC
- Santa Ana speckled dace (Rhinichthys osculus ssp. 8) SSC
- Santa Ana sucker (Catostomus santaanae) FT
- Southern California legless lizard (Anniella stebbinsi) SSC
- southern grasshopper mouse (Onychomys torridus ramona) SSC
- southern mountain yellow-legged frog (Rana muscosa) FE, SE
- southern rubber boa (*Charina umbratica*) **ST**
- southwestern willow flycatcher (Empidonax traillii extimus) FE, SE
- steelhead southern California DPS (Oncorhynchus mykiss irideus pop. 10) FE, SE
- Stephens' kangaroo rat (Dipodomys stephensi) FT, ST
- Swainson's hawk (Buteo swainsoni) ST
- tricolored blackbird (Agelaius tricolor) ST, SSC
- two-striped gartersnake (Thamnophis hammondii) SSC
- western mastiff bat (*Eumops perotis californicus*) SSC
- western pond turtle (Emys marmorata) SSC
- western spadefoot (Spea hammondii) SSC
- western yellow bat (Lasiurus xanthinus) SSC
- western yellow-billed cuckoo (Coccyzus americanus occidentalis) FT, SE
- white-eared pocket mouse (Perognathus alticola alticola) SSC
- white-tailed kite (*Elanus leucurus*) FP
- yellow warbler (Setophaga petechia) SSC
- yellow-breasted chat (Icteria virens) SSC

The analysis of the CNDDB search and field survey resulted in one species with a low potential to occur within the Project site. This species is described below.

### Burrowing Owl (Athene cunicularia) SSC

The burrowing owl (BUOW) is a California SSC. The BUOW breeds in open plains from western Canada and the western United States, Mexico through Central America, and into South America to Argentina (Klute et al. 2003). This species inhabits dry, open, native, or non-native grasslands, deserts, and other arid environments with low-growing and low-density vegetation (Ehrlich et al. 1988). It may occupy golf courses, cemeteries, road rights-of way, airstrips, abandoned buildings, irrigation ditches, and vacant lots with holes or cracks suitable for use as burrows (TLMA 2006). BUOWs typically use burrows made by mammals such as California ground squirrels (*Otospermophilus beecheyi*), foxes (*Vulpes* sp.), or badgers (*Mustelidae* sp.) (Trulio 1997). When burrows are scarce, the BUOW may use man-made structures such as openings beneath cement or asphalt pavement, pipes, culverts, and nest boxes (TLMA 2006). Ground squirrel burrows were observed on the Project site but due to recent tilling and mowing activities, most of these burrows were





City of Redlands

collapsed. If ground disturbance becomes infrequent and species are able to create burrows (and those burrows persist), it may create a habitat that could support BUOW. BUOW have also been recorded within 4.44 miles of the Project site (CDFW 2023). Therefore, this species has a low potential to occur.

### **USFWS** Critical Habitat

USFWS Critical Habitat is defined as areas of land, water, and air space containing the physical and biological features essential for the survival and recovery of endangered and threatened species. Designated Critical Habitat includes sites for breeding and rearing, movement or migration, feeding, roosting, cover, and shelter. Designated Critical Habitats require special management and protection of existing resources, including water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types. Designated Critical Habitat delineates all suitable habitat, occupied or not, that is essential to the survival and recovery of the species. According to the USFWS Critical Habitat WebGIS map, the Project site does not fall within Designated Critical Habitat (USFWS 2023c). The closest USFWS Designated Critical Habitat is for San Bernardino kangaroo rat and occurs approximately 1.25 miles north of the Project site (Attachment 1: Figure 5 – San Bernardino Kangaroo Rat Critical Habitat).

#### Special Status Habitats

Database searches (CDFW 2023; CNPS 2023) resulted in a list of four special status habitats documented historically occur within the vicinity (approximately 5 miles) of the Project site (Attachment 1: Figure 2 - CNDDB Occurrences Map), including Riversidian Alluvial Fan Sage Scrub, Southern Mixed Riparian Forest, Southern Riparian Scrub, and Southern Sycamore Alder Riparian Woodland. After the literature review and the assessment of the habitat types within the Project site, it was determined that none of these communities were present within the Project site.

### **Conclusions and Recommendations**

### Hydrology

No potentially jurisdictional or non-jurisdictional hydrological features occur within the Project site, nor do any riparian, wetland, or vernal pool habitats occur within the Project site.

A potentially jurisdictional drainage identified on aerial imagery during the literature search is located west of the Project site and east of I-210. As mentioned, this drainage is located outside of the Project site and would not be directly affected by the Project. However, due to the proximity of the drainage to the Project site (within approximately 15 feet at the northwest corner and within approximately 30 feet at the southwest corner), it is recommended that Best Management Practices (BMPs) including fencing of the Project limits and erosion control measures be employed during construction to prevent sediment from entering the channelized drainage and to protect water quality.

As no work will occur outside of the Project boundaries, no impacts to waters of the United States or waters of the state are anticipated to occur because of the Project. If it is determined that the channelized drainage west of the Project site is unavoidable due design changes or other circumstances, a USACE 404 permit, RWQCB 401 certification and/or a CDFW Streambed Alteration Agreement may be required for project authorization.

### Special Status Plant Species

After conducting the literature review and field assessment of the habitat types within the Project site, it was determined that all 54 special status plant species known to historically occur within the vicinity of the Project site are absent from the Project site due to a lack of suitable habitat for these species. No special status species were observed during the field survey. As such, no further plant surveys are recommended.

### Special Status Wildlife Species

Following the literature review and field assessment of the habitat types within the Project site, it was determined that 47 of the 48 special status wildlife species known to historically occur within the Project site are considered absent due



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to a lack of suitable habitat for these species. One species, BUOW, is considered to have low potential to occur within the Project site. Although no BUOW or sign (burrows with whitewash, pellets, feathers etc.) were observed during the survey, the following measures are recommended in accordance with CDFW's Staff Report on Burrowing Owl Mitigation: a preconstruction BUOW survey shall be conducted no less than 14 days prior to initiating ground disturbance (including clearing, grubbing, grading), and a final survey within 24 hours prior to ground disturbance, to determine whether BUOW or BUOW burrows are present within or adjacent to the Project site, and to avoid negative impacts and direct take of BUOW (CDFW 2012). If BUOW are confirmed on-site, avoidance measures will be developed and implemented in compliance with and in coordination with CDFW.

### Nesting Birds

To avoid the destruction of active nests and to protect the reproductive success of birds protected under the Migratory Bird Treaty Act (MBTA), construction activities should take place outside nesting season (typically February 1 to August 31) to the greatest extent practicable. If construction activities occur during nesting season, a preconstruction nesting bird survey should be conducted within seven days prior to initiation of ground-disturbing activities (including any clearing, grubbing, or grading), or according to the to the survey timing in the Project permits. If an active nest is identified, a minimum avoidance buffer around the active nest should be determined and implemented by a qualified biologist to avoid impacts to the active nest. The buffer should be maintained during physical ground-disturbing activities. Once the qualified biologist has determined that nesting has ceased, and the nestlings have fledged and are no longer using the nest, the buffer may be removed. Biological monitoring should be conducted as needed during the nesting season to monitor the status of any active nests, survey for any new nests, and to refresh nesting bird surveys after any periods of construction inactivity.

Please contact me at (949) 261-5414 or jmayfield@chambersgroupinc.com if you have any questions or concerns regarding this letter report.

Sincerely,

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Jackelyn Mayfield Biologist jmayfield@chambersgroupinc.com





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# **MBERS**

### Attachments

| Attachment 1: | Figure 1 – Project Location and Vicinity Map<br>Figure 2 – CNDDB Occurrences Map<br>Figure 3 – Vegetation Communities Map |
|---------------|---|
|               | Figure 4 – NWI and NHD Map  |
|               | Figure 5 – San Bernardino Kangaroo Rat Critical Habitat Map   |
| Attachment 2: | Literature Searches   |
| Attachment 3: | Plant Species Observed  |
| Attachment 4: | Wildlife Species Observed   |
| Attachment 5: | Site Photographs  |
|               |   |





City of Redlands



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City of Redlands



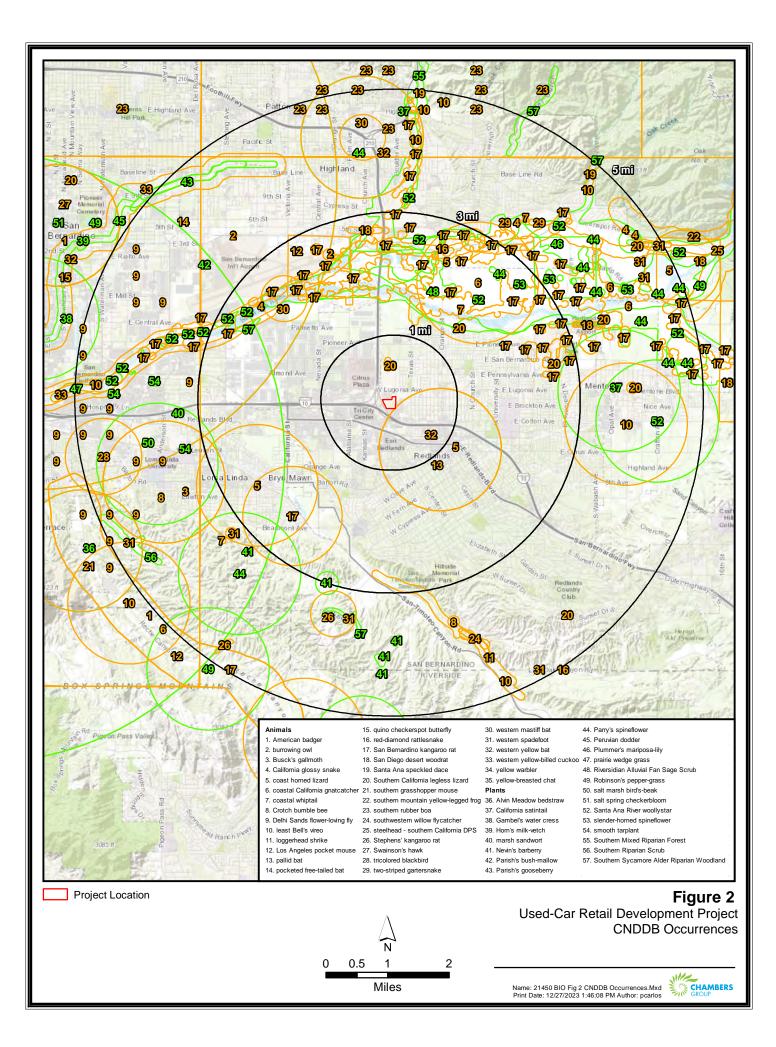
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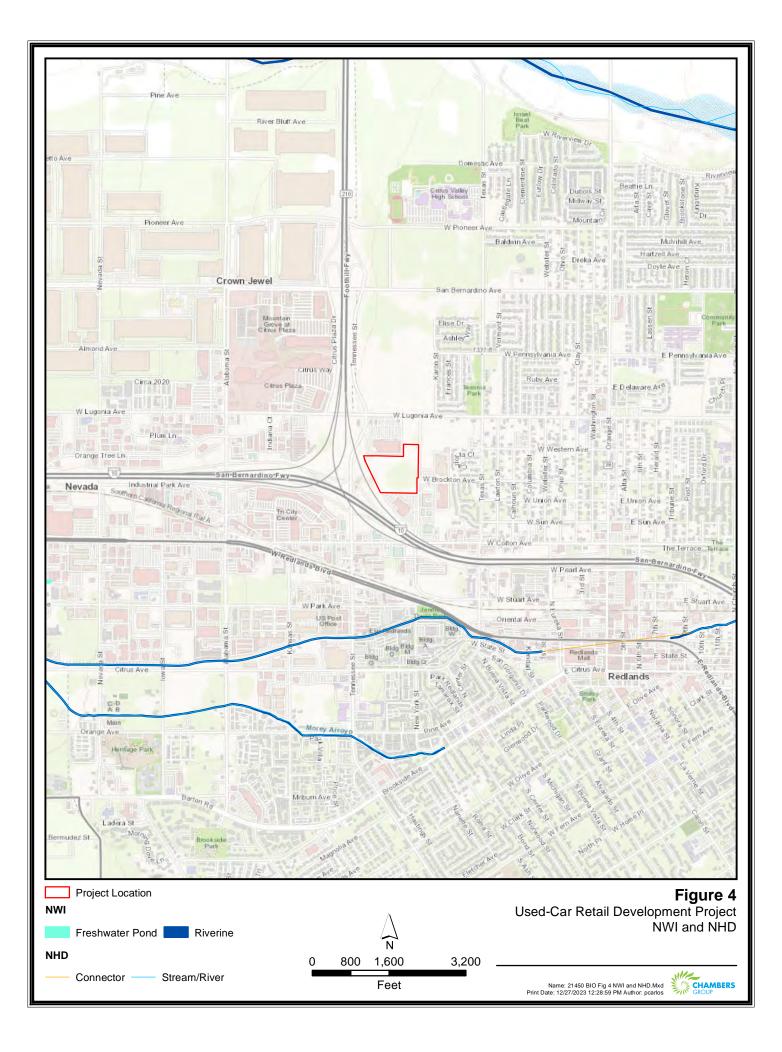


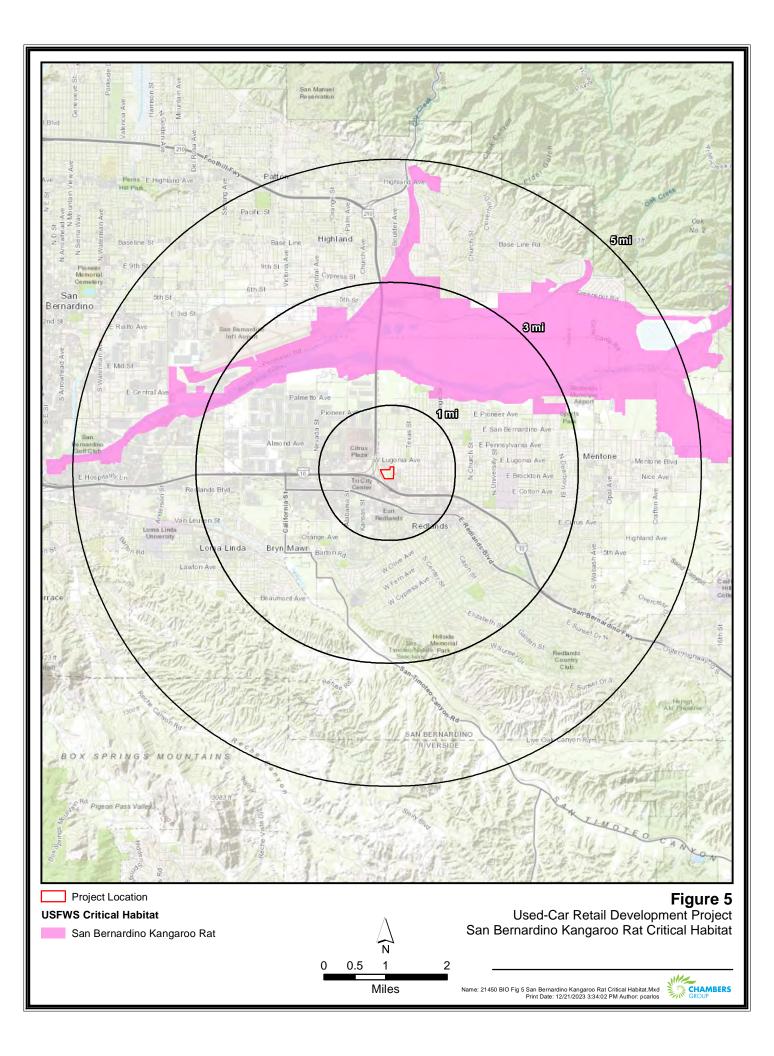
**ATTACHMENT 1 – FIGURES** 







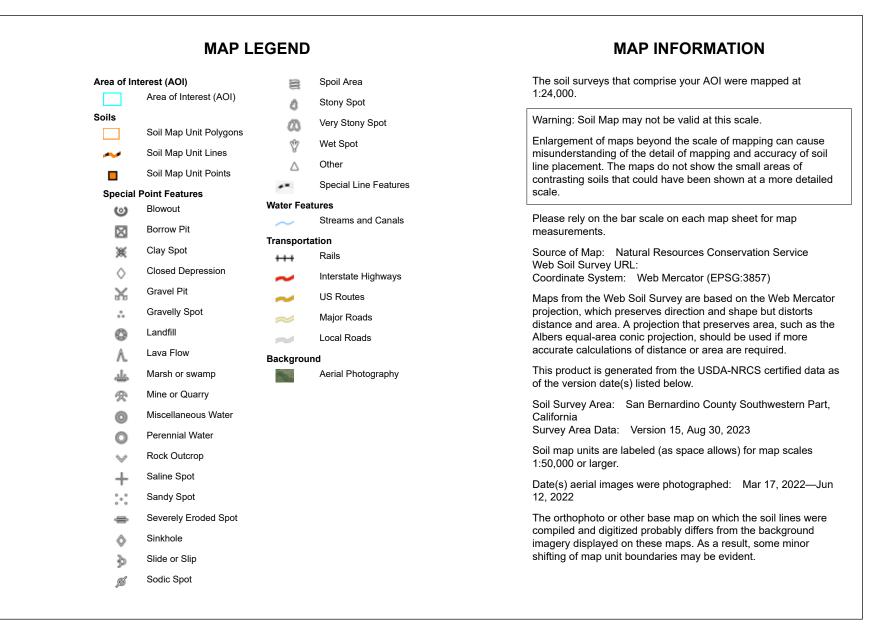




**ATTACHMENT 2 – LITERATURE SEARCHES** 



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



Soil Map-San Bernardino County Southwestern Part, California



### Map Unit Legend

| Map Unit Symbol             | Map Unit Name                             | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| TuB                         | Tujunga loamy sand, 0 to 5 percent slopes | 19.6         | 100.0%         |
| Totals for Area of Interest |   | 19.6         | 100.0%         |

### San Bernardino County Southwestern Part, California

### TuB—Tujunga loamy sand, 0 to 5 percent slopes

#### Map Unit Setting

National map unit symbol: 2sx6y Elevation: 650 to 3,110 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 62 to 65 degrees F Frost-free period: 325 to 365 days Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Tujunga, loamy sand, and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### Description of Tujunga, Loamy Sand

#### Setting

Landform: Alluvial fans Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

### Typical profile

A - 0 to 6 inches: loamy sand C1 - 6 to 18 inches: loamy sand C2 - 18 to 60 inches: loamy sand

### **Properties and qualities**

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.2 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 4e Hydrologic Soil Group: A Ecological site: R019XG912CA - Sandy Fan Hydric soil rating: No

USDA

#### **Minor Components**

#### Tujunga, gravelly loamy sand

Percent of map unit: 10 percent Landform: Alluvial fans Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

#### Hanford, sandy loam

Percent of map unit: 5 percent Landform: Alluvial fans Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

### **Data Source Information**

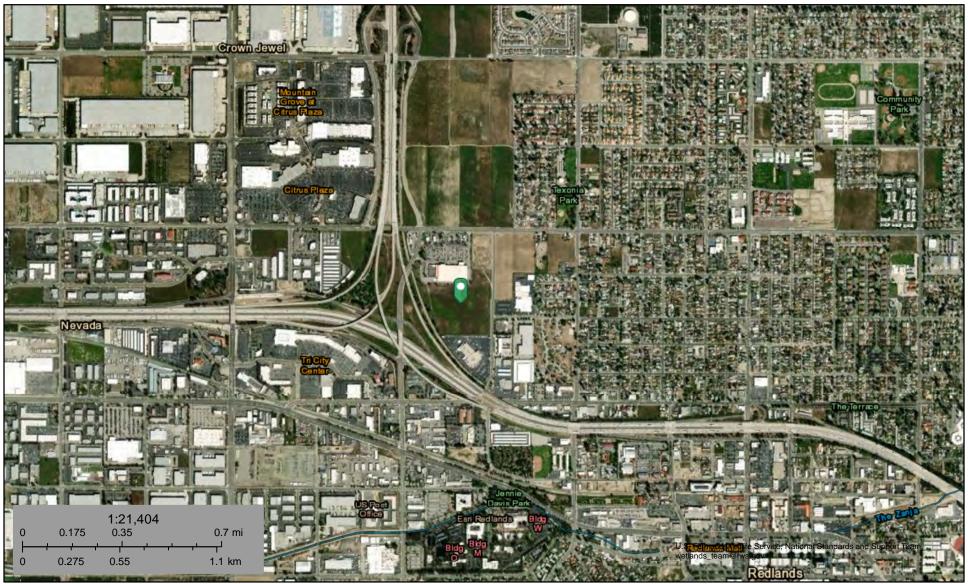
Soil Survey Area: San Bernardino County Southwestern Part, California Survey Area Data: Version 15, Aug 30, 2023





### U.S. Fish and Wildlife Service National Wetlands Inventory

nwi



#### December 17, 2023

#### Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- etland 🔲 F
  - Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



#### California Department of Fish and Wildlife

#### California Natural Diversity Database



Query Criteria: Quad<span style='color:Red'> IS </span>(Redlands (3411712)<span style='color:Red'> OR </span>Yucaipa (3411711)<span style='color:Red'> OR </span>Keller Peak (3411721)<span style='color:Red'> OR </span>Keller Peak (3411721)<span style='color:Red'> OR </span>San Bernardino North (3411723)<span style='color:Red'> OR </span>San Bernardino South (3411713)<span style='color:Red'> OR </span>Riverside East (3311783)<span style='color:Red'> OR </span>Sunnymead (3311782)<span style='color:Red'> OR </span>El Casco (3311781))

|  |                |                               |  | Elev.          |               | E | Eleme | ent O | cc. F | ank | 5  | Populatio           | on Status          |        | Presence         | ,       |
|--|----------------|-------------------------------|--|----------------|---------------|---|-------|-------|-------|-----|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)   | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists  | Range<br>(ft.) | Total<br>EO's | А | в     | с     | D     | х   | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Accipiter cooperii<br>Cooper's hawk  | G5<br>S4       | None<br>None                  | CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern   | 790<br>1,680   | 118<br>S:3    | 0 | 1     | 1     | 0     | 0   | 1  | 2                   | 1                  | 3      | 0                | 0       |
| Agelaius tricolor<br>tricolored blackbird                                  | G1G2<br>S2     | None<br>Threatened            | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_EN-Endangered<br>USFWS_BCC-Birds of<br>Conservation Concern        | 778<br>1,960   | 957<br>S:9    | 1 | 0     | 0     | 0     | 1   | 7  | 6                   | 3                  | 8      | 0                | 1       |
| Aimophila ruficeps canescens<br>southern California rufous-crowned sparrow | G5T3<br>S4     | None<br>None                  | CDFW_WL-Watch List   | 1,130<br>2,515 | 235<br>S:18   | 0 | 8     | 1     | 0     | 0   | 9  | 5                   | 13                 | 18     | 0                | 0       |
| <i>Allium howellii var. clokeyi</i><br>Mt. Pinos onion                     | G4T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.3<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden<br>USFS_S-Sensitive   | 5,100<br>5,100 | 25<br>S:1     | 0 | 0     | 0     | 0     | 0   | 1  | 1                   | 0                  | 1      | 0                | 0       |
| <i>Allium marvinii</i><br>Yucaipa onion                                    | G1<br>S1       | None<br>None                  | Rare Plant Rank - 1B.2<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive | 2,365<br>2,645 | 47<br>S:2     | 0 | 0     | 0     | 0     | 0   | 2  | 0                   | 2                  | 2      | 0                | 0       |
| Anniella stebbinsi<br>Southern California legless lizard                   | G3<br>S3       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>USFS_S-Sensitive   | 851<br>5,488   | 427<br>S:34   | 0 | 8     | 9     | 4     | 3   | 10 | 12                  | 22                 | 31     | 3                | 0       |
| Antrozous pallidus<br>pallid bat   | G4<br>S3       | None<br>None                  | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive                            | 1,360<br>1,360 | 420<br>S:1    | 0 | 0     | 0     | 0     | 0   | 1  | 1                   | 0                  | 1      | 0                | 0       |



### California Department of Fish and Wildlife



|  |                |                            |   | Elev.          |               | E | Elem | ent C | )cc. F | Rank | s  | Populatio           | on Status          |        | Presence         |         |
|--|----------------|----------------------------|---|----------------|---------------|---|------|-------|--------|------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)   | CNDDB<br>Ranks | Listing Status (Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | в    | с     | D      | x    | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <i>Aquila chrysaetos</i><br>golden eagle                         | G5<br>S3       | None<br>None               | BLM_S-Sensitive<br>CDF_S-Sensitive<br>CDFW_FP-Fully<br>Protected<br>CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern                  | 2,300<br>2,300 | 326<br>S:1    | 0 | 0    | 0     | 0      | 0    | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Arenaria paludicola<br>marsh sandwort                            | G1<br>S1       | Endangered<br>Endangered   | Rare Plant Rank - 1B.1<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden  | 1,000<br>1,000 | 19<br>S:1     | 0 | 0    | 0     | 0      | 1    | 0  | 1                   | 0                  | 0      | 0                | 1       |
| Arizona elegans occidentalis<br>California glossy snake          | G5T2<br>S2     | None<br>None               | CDFW_SSC-Species<br>of Special Concern  | 900<br>2,737   | 260<br>S:11   | 0 | 0    | 0     | 0      | 0    | 11 | 7                   | 4                  | 11     | 0                | 0       |
| Artemisiospiza belli belli<br>Bell's sparrow                     | G5T2T3<br>S3   | None<br>None               | CDFW_WL-Watch List  | 1,100<br>2,120 | 61<br>S:2     | 0 | 1    | 0     | 0      | 0    | 1  | 1                   | 1                  | 2      | 0                | 0       |
| Aspidoscelis hyperythra<br>orange-throated whiptail              | G5<br>S2S3     | None<br>None               | CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive  | 900<br>2,244   | 369<br>S:24   | 0 | 2    | 2     | 2      | 0    | 18 | 17                  | 7                  | 23     | 1                | 0       |
| Aspidoscelis tigris stejnegeri<br>coastal whiptail               | G5T5<br>S3     | None<br>None               | CDFW_SSC-Species<br>of Special Concern  | 1,060<br>2,859 | 148<br>S:15   |   | 6    | 2     | 1      | 0    | 6  | 2                   | 13                 | 15     | 0                | 0       |
| Astragalus hornii var. hornii<br>Horn's milk-vetch               | GUT1<br>S1     | None<br>None               | Rare Plant Rank - 1B.1<br>BLM_S-Sensitive   | 1,000<br>1,000 | 28<br>S:1     | 0 | 0    | 0     | 0      | 1    | 0  | 1                   | 0                  | 0      | 0                | 1       |
| Athene cunicularia<br>burrowing owl                              | G4<br>S2       | None<br>None               | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern<br>USFWS_BCC-Birds of<br>Conservation Concern | 1,090<br>1,700 | 2011<br>S:13  | 0 | 3    | 0     | 0      | 1    | 9  | 4                   | 9                  | 12     | 0                | 1       |
| Atriplex coronata var. notatior<br>San Jacinto Valley crownscale | G4T1<br>S1     | Endangered<br>None         | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                                       | 130<br>1,430   | 16<br>S:5     |   | 1    | 0     | 0      | 1    | 2  | 1                   | 4                  | 4      | 1                | 0       |
| <i>Atriplex serenana var. davidsonii</i><br>Davidson's saltscale | G5T1<br>S1     | None<br>None               | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                                       | 1,430<br>1,430 | 26<br>S:1     | 0 | 0    | 0     | 0      | 0    | 1  | 0                   | 1                  | 1      | 0                | 0       |



#### California Department of Fish and Wildlife



|   |                |                                 |  | Elev.          |               | E | Eleme | ent C | )cc. F | anks | 5  | Populatio           | on Status          |        | Presence         |         |
|---|----------------|---------------------------------|--|----------------|---------------|---|-------|-------|--------|------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State)   | Other Lists  | Range<br>(ft.) | Total<br>EO's | A | в     | с     | D      | х    | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Batrachoseps gabrieli<br>San Gabriel slender salamander           | G2G3<br>S2S3   | None<br>None                    | IUCN_DD-Data<br>Deficient<br>USFS_S-Sensitive  | 3,200<br>3,200 | 8<br>S:1      | 0 | 0     | 0     | 0      | 0    | 1  | 1                   | 0                  | 1      | 0                | 0       |
| <i>Berberis nevinii</i><br>Nevin's barberry                       | G1<br>S1       | Endangered<br>Endangered        | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden  | 1,020<br>5,200 | 32<br>S:5     | 0 | 0     | 0     | 2      | 1    | 2  | 4                   | 1                  | 4      | 0                | 1       |
| Bombus crotchii<br>Crotch bumble bee                              | G2<br>S2       | None<br>Candidate<br>Endangered | IUCN_EN-Endangered   | 900<br>5,000   | 437<br>S:16   | 0 | 0     | 0     | 0      | 0    | 16 | 8                   | 8                  | 16     | 0                | 0       |
| Bombus morrisoni<br>Morrison bumble bee                           | G3<br>S1S2     | None<br>None                    | IUCN_VU-Vulnerable   | 5,100<br>5,100 | 86<br>S:1     | 0 | 0     | 0     | 0      | 0    | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Bombus pensylvanicus<br>American bumble bee                       | G3G4<br>S2     | None<br>None                    | IUCN_VU-Vulnerable   | 1,075<br>1,502 | 285<br>S:2    | 0 | 0     | 1     | 0      | 0    | 1  | 2                   | 0                  | 2      | 0                | 0       |
| <i>Brodiaea filifolia</i><br>thread-leaved brodiaea               | G2<br>S2       | Threatened<br>Endangered        | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank                            | 1,900<br>1,900 | 141<br>S:2    | 0 | 0     | 1     | 0      | 0    | 1  | 1                   | 1                  | 2      | 0                | 0       |
| Buteo regalis<br>ferruginous hawk                                 | G4<br>S3S4     | None<br>None                    | CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern   | 1,936<br>1,936 | 107<br>S:1    | 0 | 0     | 1     | 0      | 0    | 0  | 0                   | 1                  | 1      | 0                | 0       |
| Buteo swainsoni<br>Swainson's hawk                                | G5<br>S4       | None<br>Threatened              | BLM_S-Sensitive<br>IUCN_LC-Least<br>Concern  | 1,000<br>2,600 | 2561<br>S:2   | 0 | 0     | 0     | 0      | 2    | 0  | 2                   | 0                  | 0      | 2                | 0       |
| <i>Calochortus palmeri var. palmeri</i><br>Palmer's mariposa-lily | G3T2<br>S2     | None<br>None                    | Rare Plant Rank - 1B.2<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden<br>USFS_S-Sensitive | 1,700<br>6,450 | 111<br>S:4    | 0 | 0     | 0     | 0      | 0    | 4  | 2                   | 2                  | 4      | 0                | 0       |



### California Department of Fish and Wildlife



|   |                |                               |   | Elev.          |               | E | Elem | ent C | occ. F | Ranks | 3  | Populatio           | on Status          |        | Presence         |         |
|---|----------------|-------------------------------|---|----------------|---------------|---|------|-------|--------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | в    | с     | D      | x     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <i>Calochortus plummerae</i><br>Plummer's mariposa-lily                 | G4<br>S4       | None<br>None                  | Rare Plant Rank - 4.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                      | 1,200<br>5,000 | 230<br>S:24   | 0 | 5    | 0     | 0      | 1     | 18 | 15                  | 9                  | 23     | 1                | 0       |
| Canyon Live Oak Ravine Forest<br>Canyon Live Oak Ravine Forest          | G3<br>S3.3     | None<br>None                  |   | 3,400<br>3,400 | 50<br>S:1     | 0 | 0    | 0     | 0      | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Carex comosa<br>bristly sedge   | G5<br>S2       | None<br>None                  | Rare Plant Rank - 2B.1<br>IUCN_LC-Least<br>Concern  | 1,000<br>1,000 | 31<br>S:1     | 0 | 0    | 0     | 0      | 1     | 0  | 1                   | 0                  | 0      | 1                | 0       |
| <i>Castilleja cinerea</i><br>ash-gray paintbrush                        | G1G2<br>S1S2   | Threatened<br>None            | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                     | 6,800<br>6,800 | 53<br>S:1     | 1 | 0    | 0     | 0      | 0     | 0  | 0                   | 1                  | 1      | 0                | 0       |
| <i>Castilleja lasiorhyncha</i><br>San Bernardino Mountains owl's-clover | G2?<br>S2?     | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive | 6,000<br>7,300 | 46<br>S:7     | 0 | 2    | 0     | 1      | 0     | 4  | 3                   | 4                  | 7      | 0                | 0       |
| <i>Catostomus santaanae</i><br>Santa Ana sucker                         | G1<br>S1       | Threatened<br>None            | AFS_TH-Threatened<br>IUCN_EN-Endangered   | 838<br>2,600   | 28<br>S:3     | 0 | 1    | 1     | 0      | 0     | 1  | 1                   | 2                  | 3      | 0                | 0       |
| Centromadia pungens ssp. laevis<br>smooth tarplant                      | G3G4T2<br>S2   | None<br>None                  | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                     | 1,000<br>2,221 | 137<br>S:17   | 1 | 1    | 3     | 0      | 1     | 11 | 9                   | 8                  | 16     | 0                | 1       |
| <b>Ceratochrysis longimala</b><br>Desert cuckoo wasp                    | G1<br>S1       | None<br>None                  |   | 900<br>900     | 2<br>S:1      | 0 | 0    | 0     | 0      | 1     | 0  | 1                   | 0                  | 0      | 1                | 0       |
| Chaetodipus fallax fallax<br>northwestern San Diego pocket mouse        | G5T3T4<br>S3S4 | None<br>None                  |   | 1,150<br>2,200 | 101<br>S:25   | 0 | 8    | 4     | 4      | 0     | 9  | 20                  | 5                  | 25     | 0                | 0       |
| <i>Charina umbratica</i><br>southern rubber boa                         | G2G3<br>S2     | None<br>Threatened            | IUCN_VU-Vulnerable<br>USFS_S-Sensitive  | 5,000<br>7,300 | 94<br>S:22    | 1 | 3    | 0     | 0      | 0     | 18 | 14                  | 8                  | 22     | 0                | 0       |



### California Department of Fish and Wildlife

### California Natural Diversity Database



|   |                |                               |  | Elev.          |               | E | Eleme | ent O | cc. F | Ranks | 5  | Populatio           | on Status          |        | Presence         |         |
|---|----------------|-------------------------------|--|----------------|---------------|---|-------|-------|-------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists  | Range<br>(ft.) | Total<br>EO's | A | в     | С     | D     | x     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <i>Chloropyron maritimum ssp. maritimum</i><br>salt marsh bird's-beak | G4?T1<br>S1    | Endangered<br>Endangered      | Rare Plant Rank - 1B.2<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden | 1,000<br>1,000 | 26<br>S:1     | 0 | 0     | 0     | 0     | 1     | 0  | 1                   | 0                  | 0      | 1                | 0       |
| <i>Chorizanthe parryi var. parryi</i><br>Parry's spineflower          | G3T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.1<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive   | 1,000<br>3,280 | 150<br>S:29   | 1 | 2     | 3     | 0     | 1     | 22 | 18                  | 11                 | 28     | 1                | 0       |
| Chorizanthe xanti var. leucotheca<br>white-bracted spineflower        | G4T3<br>S3     | None<br>None                  | Rare Plant Rank - 1B.2<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_USDA-US Dept of<br>Agriculture<br>USFS_S-Sensitive  | 2,480<br>2,480 | 59<br>S:1     | 0 | 0     | 0     | 0     | 0     | 1  | 0                   | 1                  | 1      | 0                | 0       |
| Coccyzus americanus occidentalis<br>western yellow-billed cuckoo      | G5T2T3<br>S1   | Threatened<br>Endangered      | BLM_S-Sensitive<br>USFS_S-Sensitive  | 900<br>1,690   | 165<br>S:3    | 0 | 1     | 0     | 0     | 2     | 0  | 3                   | 0                  | 1      | 1                | 1       |
| <b>Coleonyx variegatus abbotti</b><br>San Diego banded gecko          | G5T5<br>S1S2   | None<br>None                  | CDFW_SSC-Species<br>of Special Concern   | 1,075<br>1,075 | 8<br>S:1      | 0 | 1     | 0     | 0     | 0     | 0  | 0                   | 1                  | 1      | 0                | 0       |
| Crotalus ruber<br>red-diamond rattlesnake                             | G4<br>S3       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive   | 900<br>2,280   | 192<br>S:9    | 0 | 1     | 2     | 0     | 0     | 6  | 6                   | 3                  | 9      | 0                | 0       |
| <i>Cuscuta obtusiflora var. glandulosa</i><br>Peruvian dodder         | G5T4?<br>SH    | None<br>None                  | Rare Plant Rank - 2B.2   |                | 6<br>S:1      | 0 | 0     | 0     | 0     | 1     | 0  | 1                   | 0                  | 0      | 0                | 1       |
| <i>Diadophis punctatus modestus</i><br>San Bernardino ringneck snake  | G5T2T3<br>S2?  | None<br>None                  | USFS_S-Sensitive   | 3,137<br>4,797 | 14<br>S:3     | 1 | 2     | 0     | 0     | 0     | 0  | 1                   | 2                  | 3      | 0                | 0       |

Page 5 of 14



#### California Department of Fish and Wildlife

### California Natural Diversity Database



|   |                |                                       |   | Elev.          |               | E | Elem | ent C | )cc. F | Ranks | \$ | Populatio           | on Status          |        | Presence         |         |
|---|----------------|---------------------------------------|---|----------------|---------------|---|------|-------|--------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State)         | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | В    | с     | D      | x     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <i>Diplectrona californica</i><br>California diplectronan caddisfly       | G1G2<br>S1     | None<br>None                          |   | 3,444<br>3,444 | 2<br>S:1      | 0 | 0    | 0     | 0      | 0     | 1  | 0                   | 1                  | 1      | 0                | 0       |
| <i>Dipodomys merriami parvus</i><br>San Bernardino kangaroo rat           | G5T1<br>S1     | Endangered<br>Candidate<br>Endangered | CDFW_SSC-Species<br>of Special Concern  | 1,055<br>2,388 | 81<br>S:28    | 1 | 5    | 6     | 0      | 5     | 11 | 10                  | 18                 | 23     | 5                | 0       |
| Dipodomys stephensi<br>Stephens' kangaroo rat                             | G2<br>S3       | Threatened<br>Threatened              | IUCN_VU-Vulnerable  | 1<br>2,500     | 226<br>S:35   | 1 | 6    | 11    | 8      | 4     | 5  | 30                  | 5                  | 31     | 1                | 3       |
| Dodecahema leptoceras<br>slender-horned spineflower                       | G1<br>S1       | Endangered<br>Endangered              | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden       | 1,280<br>1,600 | 42<br>S:9     | 0 | 1    | 1     | 0      | 3     | 4  | 8                   | 1                  | 6      | 1                | 2       |
| <i>Elanus leucurus</i><br>white-tailed kite                               | G5<br>S3S4     | None<br>None                          | BLM_S-Sensitive<br>CDFW_FP-Fully<br>Protected<br>IUCN_LC-Least<br>Concern                           | 2,005<br>2,760 | 184<br>S:3    | 0 | 0    | 1     | 0      | 0     | 2  | 0                   | 3                  | 3      | 0                | 0       |
| Empidonax traillii extimus<br>southwestern willow flycatcher              | G5T2<br>S3     | Endangered<br>Endangered              |   | 790<br>3,400   | 70<br>S:5     | 1 | 1    | 1     | 0      | 0     | 2  | 2                   | 3                  | 5      | 0                | 0       |
| <i>Emys marmorata</i><br>western pond turtle                              | G3G4<br>S3     | Proposed<br>Threatened<br>None        | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_VU-Vulnerable<br>USFS_S-Sensitive | 1,716<br>1,716 | 1522<br>S:1   | 0 | 1    | 0     | 0      | 0     | 0  | 0                   | 1                  | 1      | 0                | 0       |
| <i>Eremophila alpestris actia</i><br>California horned lark               | G5T4Q<br>S4    | None<br>None                          | CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern  | 1,100<br>2,430 | 94<br>S:4     | 0 | 0    | 1     | 2      | 0     | 1  | 3                   | 1                  | 4      | 0                | 0       |
| <i>Eriastrum densifolium ssp. sanctorum</i><br>Santa Ana River woollystar | G4T1<br>S1     | Endangered<br>Endangered              | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden       | 820<br>2,300   | 31<br>S:25    | 2 | 4    | 8     | 4      | 1     | 6  | 10                  | 15                 | 24     | 1                | 0       |
| <i>Euchloe hyantis andrewsi</i><br>Andrew's marble butterfly              | G4G5T1<br>S2   | None<br>None                          |   | 4,800<br>6,000 | 6<br>S:4      | 0 | 0    | 0     | 0      | 0     | 4  | 4                   | 0                  | 4      | 0                | 0       |
| <i>Eugnosta busckana</i><br>Busck's gallmoth                              | G1G3<br>S2S3   | None<br>None                          |   | 1,160<br>1,815 | 15<br>S:3     | 0 | 2    | 0     | 0      | 0     | 1  | 1                   | 2                  | 3      | 0                | 0       |
| <i>Eumops perotis californicus</i><br>western mastiff bat                 | G4G5T4<br>S3S4 | None<br>None                          | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern   | 1,380<br>2,470 | 296<br>S:6    | 0 | 0    | 0     | 1      | 0     | 5  | 6                   | 0                  | 6      | 0                | 0       |

Commercial Version -- Dated December, 1 2023 -- Biogeographic Data Branch



### California Department of Fish and Wildlife



|  |                |                               |   | Elev.          |               |   | Elem | ent C | occ. F | Ranks | \$ | Populatio           | on Status          |        | Presence         |         |
|--|----------------|-------------------------------|---|----------------|---------------|---|------|-------|--------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)   | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | в    | с     | D      | x     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Euphydryas editha quino  | G4G5T1T2       | Endangered                    |   | 1,050          | 186           | 0 | 0    | 0     | 0      | 2     | 0  | 2                   | 0                  | 0      | 0                | 2       |
| quino checkerspot butterfly  | S1S2           | None                          |   | 5,000          | S:2           |   |      |       |        |       |    |                     |                    |        |                  |         |
| <i>Falco columbarius</i><br>merlin                                   | G5<br>S3S4     | None<br>None                  | CDFW_WL-Watch List<br>IUCN_LC-Least<br>Concern  | 964<br>1,713   | 37<br>S:2     |   | 0    | 1     | 0      | 0     | 0  | 0                   | 2                  | 2      | 0                | 0       |
| <i>Fimbristylis thermalis</i><br>hot springs fimbristylis            | G4<br>S1S2     | None<br>None                  | Rare Plant Rank - 2B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                     | 1,900<br>1,900 | 19<br>S:1     | 0 | 0    | 0     | 1      | 0     | 0  | 0                   | 1                  | 1      | 0                | 0       |
| <i>Galium californicum ssp. primum</i><br>Alvin Meadow bedstraw      | G5T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive |                | 12<br>S:1     | 0 | 0    | 0     | 0      | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| <i>Gila orcuttii</i><br>arroyo chub                                  | G2<br>S2       | None<br>None                  | AFS_VU-Vulnerable<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_VU-Vulnerable<br>USFS_S-Sensitive             | 838<br>880     | 49<br>S:2     |   | 0    | 1     | 1      | 0     | 0  | 2                   | 0                  | 2      | 0                | 0       |
| Glaucomys oregonensis californicus<br>San Bernardino flying squirrel | G5T1T2<br>S1S2 | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>USFS_S-Sensitive  | 4,600<br>5,300 | 12<br>S:5     | 1 | 0    | 2     | 0      | 0     | 2  | 4                   | 1                  | 5      | 0                | 0       |
| <i>Haliaeetus leucocephalus</i><br>bald eagle                        | G5<br>S3       | Delisted<br>Endangered        | BLM_S-Sensitive<br>CDF_S-Sensitive<br>CDFW_FP-Fully<br>Protected<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive  | 5,150<br>5,200 | 333<br>S:3    |   | 0    | 1     | 0      | 0     | 2  | 2                   | 1                  | 3      | 0                | 0       |
| Helianthus nuttallii ssp. parishii<br>Los Angeles sunflower          | G5TX<br>SX     | None<br>None                  | Rare Plant Rank - 1A  | 1,000<br>1,000 | 7<br>S:1      | 0 | 0    | 0     | 0      | 1     | 0  | 1                   | 0                  | 0      | 1                | 0       |
| <i>Heuchera parishii</i><br>Parish's alumroot                        | G3<br>S3       | None<br>None                  | Rare Plant Rank - 1B.3<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive | 5,600<br>6,600 | 70<br>S:5     |   | 0    | 0     | 0      | 0     | 5  | 5                   | 0                  | 5      | 0                | 0       |



### California Department of Fish and Wildlife



|   |                |                               |   | Elev.          |               |   | Elem | ent ( | Dcc. | Rank | s | Populatio           | on Status          |        | Presence         |         |
|---|----------------|-------------------------------|---|----------------|---------------|---|------|-------|------|------|---|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | в    | с     | D    | x    | U | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <i>Horkelia cuneata var. puberula</i><br>mesa horkelia          | G4T1<br>S1     | None<br>None                  | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive   |                | 103<br>S:1    | 0 | 0    | 0     | 0    | 1    | 0 | 1                   | 0                  | 0      | 1                | 0       |
| <i>Icteria virens</i><br>yellow-breasted chat                   | G5<br>S4       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern  | 1,460<br>2,064 | 101<br>S:3    | 0 | 2    | 0     | 0    | 0    | 1 | 2                   | 1                  | 3      | 0                | 0       |
| <i>Imperata brevifolia</i><br>California satintail              | G3<br>S3       | None<br>None                  | Rare Plant Rank - 2B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden<br>USFS_S-Sensitive | 1,480<br>3,800 | 32<br>S:4     | 0 | 0    | 0     | 1    | 0    | 3 | 3                   | 1                  | 4      | 0                | 0       |
| <i>Ivesia argyrocoma var. argyrocoma</i> silver-haired ivesia   | G2T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive   | 5,620<br>5,620 | 41<br>S:1     | 0 | 0    | 0     | 1    | 0    | 0 | 0                   | 1                  | 1      | 0                | 0       |
| <i>Lanius ludovicianus</i><br>loggerhead shrike                 | G4<br>S4       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_NT-Near<br>Threatened  | 1,460<br>2,596 | 110<br>S:3    |   | 1    | 0     | 0    | 0    | 2 | 3                   | 0                  | 3      | 0                | 0       |
| <i>Lasiurus xanthinus</i><br>western yellow bat                 | G4G5<br>S3     | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern  | 1,050<br>2,600 | 58<br>S:8     | 0 | 0    | 0     | 0    | 0    | 8 | 8                   | 0                  | 8      | 0                | 0       |
| <i>Lasthenia glabrata ssp. coulteri</i><br>Coulter's goldfields | G4T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.1<br>BLM_S-Sensitive<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden  | 1,420<br>1,460 | 111<br>S:7    |   | 1    | C     | 0    | 0    | 4 | 1                   | 6                  | 7      | 0                | 0       |



### California Department of Fish and Wildlife



|   |                |                               |   | Elev.          |               | Element Occ. Ranks |   |   |   |   |    | Populatio           | on Status          | Presence |                  |         |
|---|----------------|-------------------------------|---|----------------|---------------|--------------------|---|---|---|---|----|---------------------|--------------------|----------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A                  | в | с | D | x | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant   | Poss.<br>Extirp. | Extirp. |
| <i>Laterallus jamaicensis coturniculus</i><br>California black rail | G3T1<br>S2     | None<br>Threatened            | BLM_S-Sensitive<br>CDFW_FP-Fully<br>Protected<br>IUCN_EN-Endangered   | 900<br>1,070   | 303<br>S:2    | 0                  | 0 | 0 | 0 | 0 | 2  | 2                   | 0                  | 2        | 0                | 0       |
| Lepidium virginicum var. robinsonii<br>Robinson's pepper-grass      | G5T3<br>S3     | None<br>None                  | Rare Plant Rank - 4.3   | 850<br>2,100   | 142<br>S:9    |                    | 0 | 0 | 0 | 0 | 9  | 8                   | 1                  | 9        | 0                | 0       |
| Leptonycteris yerbabuenae<br>lesser long-nosed bat                  | G3<br>S1       | Delisted<br>None              | CDFW_SSC-Species<br>of Special Concern<br>IUCN_NT-Near<br>Threatened  | 2,600<br>2,600 | 2<br>S:1      | 0                  | 0 | 0 | 0 | 0 | 1  | 1                   | 0                  | 1        | 0                | 0       |
| Lepus californicus bennettii<br>San Diego black-tailed jackrabbit   | G5T3T4<br>S3S4 | None<br>None                  |   | 1,060<br>2,745 | 103<br>S:12   | 0                  | 3 | 8 | 0 | 0 | 1  | 2                   | 10                 | 12       | 0                | 0       |
| <i>Lilium parryi</i><br>lemon lily                                  | G3<br>S3       | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank<br>USFS_S-Sensitive | 5,450<br>7,915 | 160<br>S:16   | 1                  | 0 | 1 | 2 | 0 | 12 | 7                   | 9                  | 16       | 0                | 0       |
| <i>Lycium parishii</i><br>Parish's desert-thorn                     | G4<br>S1       | None<br>None                  | Rare Plant Rank - 2B.3<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank  |                | 21<br>S:1     | 0                  | 0 | 0 | 0 | 1 | 0  | 1                   | 0                  | 0        | 0                | 1       |
| <i>Malacothamnus parishii</i><br>Parish's bush-mallow               | GXQ<br>SX      | None<br>None                  | Rare Plant Rank - 1A  | 1,250<br>1,250 | 1<br>S:1      | 0                  | 0 | 0 | 0 | 1 | 0  | 1                   | 0                  | 0        | 0                | 1       |
| <i>Monardella macrantha ssp. hallii</i><br>Hall's monardella        | G5T3<br>S3     | None<br>None                  | Rare Plant Rank - 1B.3<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive   | 3,500<br>5,000 | 41<br>S:5     | 0                  | 5 | 0 | 0 | 0 | 0  | 3                   | 2                  | 5        | 0                | 0       |
| <i>Monardella pringlei</i><br>Pringle's monardella                  | GX<br>SX       | None<br>None                  | Rare Plant Rank - 1A  | 1,000<br>1,000 | 2<br>S:1      | 0                  | 0 | 0 | 0 | 1 | 0  | 1                   | 0                  | 0        | 1                | 0       |
| <i>Nama stenocarpa</i><br>mud nama                                  | G4G5<br>S1S2   | None<br>None                  | Rare Plant Rank - 2B.2  | 1,400<br>1,400 | 22<br>S:1     | 0                  | 0 | 0 | 0 | 0 | 1  | 0                   | 1                  | 1        | 0                | 0       |



### California Department of Fish and Wildlife



|  |                |                               |   | Elev.          |               | Element Occ. Ranks |   |   |   |   |   | Populatio           | on Status          | Presence |                  |         |
|--|----------------|-------------------------------|---|----------------|---------------|--------------------|---|---|---|---|---|---------------------|--------------------|----------|------------------|---------|
| Name (Scientific/Common)                                     | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A                  | в | с | D | x | U | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant   | Poss.<br>Extirp. | Extirp. |
| Nasturtium gambelii  | G1             | Endangered                    | Rare Plant Rank - 1B.1  | 1,000          | 13            | 0                  | 0 | 0 | 0 | 1 | 0 | 1                   | 0                  | 0        | 0                | 1       |
| Gambel's water cress   | S1             | Threatened                    | SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden | 1,000          | S:1           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Neolarra alba  | GH             | None                          |   | 1,400          | 8             |                    | 0 | 0 | 0 | 1 | 1 | 2                   | 0                  | 1        | 1                | 0       |
| white cuckoo bee   | SH             | None                          |   | 1,800          | S:2           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Neotamias speciosus speciosus                                | G4T3T4         | None                          |   | 6,800          | 24            | 0                  | 0 | 0 | 0 | 0 | 3 | 3                   | 0                  | 3        | 0                | 0       |
| lodgepole chipmunk   | S2             | None                          |   | 7,300          | S:3           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Neotoma lepida intermedia                                    | G5T3T4         | None                          | CDFW_SSC-Species  | 1,200          | 132           | 0                  | 2 | 2 | 1 | 0 | 0 | 3                   | 2                  | 5        | 0                | 0       |
| San Diego desert woodrat                                     | S3S4           | None                          | of Special Concern  | 1,630          | S:5           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Nyctinomops femorosaccus                                     | G5             | None                          | CDFW_SSC-Species  | 1,200          | 90            | 0                  | 0 | 0 | 0 | 0 | 2 | 2                   | 0                  | 2        | 0                | 0       |
| pocketed free-tailed bat                                     | S3             | None                          | of Special Concern<br>IUCN_LC-Least<br>Concern  | 1,600          | S:2           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Oncorhynchus mykiss irideus pop. 10                          | G5T1Q          | Endangered                    | AFS_EN-Endangered   | 108            | 19            | 0                  | 0 | 0 | 0 | 1 | 0 | 1                   | 0                  | 0        | 1                | 0       |
| steelhead - southern California DPS                          | S1             | Candidate<br>Endangered       |   | 108            | S:1           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Onychomys torridus ramona                                    | G5T3           | None                          | CDFW_SSC-Species<br>of Special Concern  | 1,180          | 28            | 0                  | 0 | 0 | 0 | 0 | 3 | 3                   | 0                  | 3        | 0                | 0       |
| southern grasshopper mouse                                   | S3             | None                          |   | 2,000          | S:3           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Packera bernardina   | G2             | None                          | Rare Plant Rank - 1B.2  | 7,000          | 35            | 0                  | 0 | 0 | 0 | 0 | 1 | 1                   | 0                  | 1        | 0                | 0       |
| San Bernardino ragwort                                       | S2             | None                          | SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive                           | 7,000          | S:1           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| Pelazoneuron puberulum var. sonorense                        | G5T3           | None                          | Rare Plant Rank - 2B.2  | 2,000          | 27            | 0                  | 0 | 1 | 0 | 0 | 0 | 0                   | 1                  | 1        | 0                | 0       |
| Sonoran maiden fern  | S2             | None                          | USFS_S-Sensitive  | 2,000          | S:1           |                    |   |   |   |   |   |                     |                    |          |                  |         |
| <b>Perideridia parishii ssp. parishii</b><br>Parish's yampah | G4T3T4<br>S2   | None<br>None                  | Rare Plant Rank - 2B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                     | 5,600<br>7,480 | 37<br>S:8     |                    | 0 | 1 | 0 | 0 | 7 | 2                   | 6                  | 8        | 0                | 0       |



### California Department of Fish and Wildlife



|                                      |                |                               |  | Elev.          |               |   | Elem | ent C | )cc. F | Rank | s  | Populatio           | on Status          |        | Presence         |         |
|--------------------------------------|----------------|-------------------------------|--|----------------|---------------|---|------|-------|--------|------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)             | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists  | Range<br>(ft.) | Total<br>EO's | A | в    | c     | D      | x    | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Perognathus alticola alticola        | G2TH           | None                          | BLM_S-Sensitive  | 5,500          | 3             | 0 | 0    | 0     | 0      | 3    | 0  | 3                   | 0                  | 0      | 3                | 0       |
| white-eared pocket mouse             | SH             | None                          | CDFW_SSC-Species<br>of Special Concern<br>IUCN_VU-Vulnerable<br>USFS_S-Sensitive | 6,153          | S:3           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Perognathus longimembris brevinasus  | G5T2           | None                          | CDFW_SSC-Species   | 1,000          | 70            | 1 | 4    | 5     | 1      | 0    | 7  | 15                  | 3                  | 18     | 0                | 0       |
| Los Angeles pocket mouse             | S1S2           | None                          | of Special Concern   | 2,000          | S:18          |   |      |       |        |      |    |                     |                    |        |                  |         |
| Phrynosoma blainvillii               | G4             | None                          | BLM_S-Sensitive  | 1,000          | 784           | 1 | 8    | 0     | 0      | 2    | 12 | 20                  | 3                  | 21     | 0                | 2       |
| coast horned lizard                  | S4             | None                          | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern               | 4,600          | S:23          |   |      |       |        |      |    |                     |                    |        |                  |         |
| Plegadis chihi                       | G5             | None                          | CDFW_WL-Watch List   | 1,425          | 20            | 0 | 0    | 0     | 0      | 0    | 1  | 1                   | 0                  | 1      | 0                | 0       |
| white-faced ibis                     | S3S4           | None                          | IUCN_LC-Least<br>Concern   | 1,425          | S:1           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Polioptila californica californica   | G4G5T3Q        | Threatened                    | CDFW_SSC-Species   | 1,100          | 1087          | 1 | 3    | 2     | 0      | 1    | 7  | 11                  | 3                  | 13     | 0                | 1       |
| coastal California gnatcatcher       | S2             | None                          | of Special Concern   | 2,180          | S:14          |   |      |       |        |      |    |                     |                    |        |                  |         |
| Rana draytonii                       | G2G3           | Threatened                    | CDFW_SSC-Species   | 2,600          | 1764          | 0 | 1    | 0     | 0      | 0    | 0  | 1                   | 0                  | 1      | 0                | 0       |
| California red-legged frog           | S2S3           | None                          | of Special Concern<br>IUCN_VU-Vulnerable   | 2,600          | S:1           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Rana muscosa                         | G1             | Endangered                    | CDFW_WL-Watch List   | 1,800          | 186           | 0 | 1    | 0     | 0      | 3    | 1  | 4                   | 1                  | 2      | 1                | 2       |
| southern mountain yellow-legged frog | S2             | Endangered                    | IUCN_EN-Endangered<br>USFS_S-Sensitive   | 6,700          | S:5           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Rhaphiomidas terminatus abdominalis  | G1T1           | Endangered                    |  | 925            | 36            | 0 | 8    | 1     | 2      | 7    | 2  | 10                  | 10                 | 13     | 1                | 6       |
| Delhi Sands flower-loving fly        | S1             | None                          |  | 1,164          | S:20          |   |      |       |        |      |    |                     |                    |        |                  |         |
| Rhinichthys osculus ssp. 8           | G5T1           | None                          | AFS_TH-Threatened  | 1,525          | 13            | 0 | 3    | 0     | 0      | 0    | 0  | 3                   | 0                  | 3      | 0                | 0       |
| Santa Ana speckled dace              | S1             | None                          | CDFW_SSC-Species<br>of Special Concern<br>USFS_S-Sensitive                       | 2,080          | S:3           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Ribes divaricatum var. parishii      | G5TX           | None                          | Rare Plant Rank - 1A   | 1,080          | 5             | 0 | 0    | 0     | 0      | 1    | 0  | 1                   | 0                  | 0      | 1                | 0       |
| Parish's gooseberry                  | SX             | None                          |  | 1,080          | S:1           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Riversidian Alluvial Fan Sage Scrub  | G1             | None                          |  | 1,300          | 30            | 0 | 1    | 1     | 0      | 1    | 1  | 4                   | 0                  | 3      | 0                | 1       |
| Riversidian Alluvial Fan Sage Scrub  | S1.1           | None                          |  | 2,900          | S:4           |   |      |       |        |      |    |                     |                    |        |                  |         |
| Salvadora hexalepis virgultea        | G5T4           | None                          | CDFW_SSC-Species   | 1,672          | 34<br>S:2     | 0 | 0    | 1     | 0      | 0    | 1  | 0                   | 2                  | 2      | 0                | 0       |
| coast patch-nosed snake              | S3             | None                          | of Special Concern   | 2,533          | 5:2           |   |      |       |        |      |    |                     |                    |        |                  |         |



### California Department of Fish and Wildlife



|  |                |                               |   | Elev.          |               | 1 | Elem | ent O | )cc. F | Rank | s | Populatio           | on Status          |        | Presence         |         |
|--|----------------|-------------------------------|---|----------------|---------------|---|------|-------|--------|------|---|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)   | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | A | в    | с     | D      | x    | U | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| <b>Schoenus nigricans</b><br>black bog-rush  | G4<br>S2       | None<br>None                  | Rare Plant Rank - 2B.2<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive  | 1,950<br>1,950 | 13<br>S:1     | 0 | 0    | 0     | 0      | 0    | 1 | 0                   | 1                  | 1      | 0                | 0       |
| Senecio aphanactis<br>chaparral ragwort  | G3<br>S2       | None<br>None                  | Rare Plant Rank - 2B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank         | 2,300<br>2,300 | 98<br>S:2     |   | 0    | 0     | 0      | 0    | 2 | 1                   | 1                  | 2      | 0                | 0       |
| Setophaga petechia<br>yellow warbler   | G5<br>S3       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern  | 1,460<br>2,122 | 78<br>S:3     | 0 | 0    | 1     | 0      | 0    | 2 | 1                   | 2                  | 3      | 0                | 0       |
| <i>Sidalcea hickmanii ssp. parishii</i><br>Parish's checkerbloom                   | G3T1<br>S1     | None<br>Rare                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_SBBG-Santa<br>Barbara Botanic<br>Garden<br>USFS_S-Sensitive | 4,600<br>4,600 | 24<br>S:1     | 0 | 0    | 0     | 0      | 0    | 1 | 1                   | 0                  | 1      | 0                | 0       |
| <i>Sidalcea malviflora ssp. dolosa</i><br>Bear Valley checkerbloom                 | G5T2<br>S2     | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>USFS_S-Sensitive   |                | 18<br>S:1     | 0 | 0    | 0     | 0      | 0    | 1 | 1                   | 0                  | 1      | 0                | 0       |
| Sidalcea neomexicana<br>salt spring checkerbloom                                   | G4<br>S2       | None<br>None                  | Rare Plant Rank - 2B.2<br>USFS_S-Sensitive  | 1,050<br>1,500 | 30<br>S:4     | 0 | 0    | 0     | 0      | 1    | 3 | 3                   | 1                  | 3      | 1                | 0       |
| <i>Sidalcea pedata</i><br>bird-foot checkerbloom                                   | G1<br>S1       | Endangered<br>Endangered      | Rare Plant Rank - 1B.1<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden   | 6,040<br>6,040 | 24<br>S:1     | 0 | 0    | 0     | 0      | 1    | 0 | 1                   | 0                  | 0      | 0                | 1       |
| Southern Coast Live Oak Riparian Forest<br>Southern Coast Live Oak Riparian Forest | G4<br>S4       | None<br>None                  |   | 1,780<br>1,820 | 246<br>S:2    |   | 0    | 0     | 0      | 0    | 2 | 2                   | 0                  | 2      | 0                | 0       |



### California Department of Fish and Wildlife



|  |                |                               |   | Elev.          |               | E | Elem | ent O | cc. F | Ranks | 5  | Populatio           | on Status          |        | Presence         |         |
|--|----------------|-------------------------------|---|----------------|---------------|---|------|-------|-------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)   | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | Α | в    | с     | D     | х     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Southern Cottonwood Willow Riparian<br>Forest<br>Southern Cottonwood Willow Riparian Forest  | G3<br>S3.2     | None<br>None                  |   | 860<br>2,840   | 111<br>S:3    | 0 | 0    | 0     | 0     | 0     | 3  | 3                   | 0                  | 3      | 0                | 0       |
| Southern Mixed Riparian Forest<br>Southern Mixed Riparian Forest                             | G2<br>S2.1     | None<br>None                  |   | 1,980<br>1,980 | 14<br>S:1     | 0 | 0    | 0     | 0     | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Southern Riparian Forest<br>Southern Riparian Forest   | G4<br>S4       | None<br>None                  |   | 2,160<br>2,160 | 20<br>S:1     | 0 | 0    | 0     | 0     | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Southern Riparian Scrub<br>Southern Riparian Scrub   | G3<br>S3.2     | None<br>None                  |   | 1,360<br>1,840 | 56<br>S:2     | 0 | 0    | 0     | 0     | 0     | 2  | 2                   | 0                  | 2      | 0                | 0       |
| Southern Sycamore Alder Riparian<br>Woodland<br>Southern Sycamore Alder Riparian<br>Woodland | G4<br>S4       | None<br>None                  |   | 1,100<br>3,000 | 230<br>S:16   | 0 | 0    | 0     | 0     | 0     | 16 | 16                  | 0                  | 16     | 0                | 0       |
| Southern Willow Scrub<br>Southern Willow Scrub   | G3<br>S2.1     | None<br>None                  |   | 2,200<br>2,200 | 45<br>S:1     | 0 | 0    | 0     | 0     | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Spea hammondii<br>western spadefoot  | G2G3<br>S3S4   | None<br>None                  | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_NT-Near<br>Threatened                                 | 1,007<br>2,525 | 1444<br>S:38  | 0 | 6    | 8     | 3     | 0     | 21 | 10                  | 28                 | 38     | 0                | 0       |
| <b>Sphenopholis obtusata</b><br>prairie wedge grass  | G5<br>S2       | None<br>None                  | Rare Plant Rank - 2B.2  | 800<br>1,000   | 19<br>S:2     | 0 | 0    | 0     | 0     | 0     | 2  | 2                   | 0                  | 2      | 0                | 0       |
| <b>Spinus lawrencei</b><br>Lawrence's goldfinch  | G3G4<br>S4     | None<br>None                  | IUCN_LC-Least<br>Concern<br>USFWS_BCC-Birds of<br>Conservation Concern  | 1,690<br>1,690 | 4<br>S:1      | 0 | 1    | 0     | 0     | 0     | 0  | 1                   | 0                  | 1      | 0                | 0       |
| <i>Streptanthus bernardinus</i><br>Laguna Mountains jewelflower                              | G3G4<br>S3S4   | None<br>None                  | Rare Plant Rank - 4.3<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden                            | 5,990<br>7,100 | 22<br>S:7     | 0 | 3    | 1     | 0     | 0     | 3  | 7                   | 0                  | 7      | 0                | 0       |
| <i>Streptanthus campestris</i> southern jewelflower  | G3<br>S3       | None<br>None                  | Rare Plant Rank - 1B.3<br>BLM_S-Sensitive<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank<br>USFS_S-Sensitive | 4,000<br>7,345 | 73<br>S:4     | 0 | 0    | 0     | 1     | 0     | 3  | 2                   | 2                  | 4      | 0                | 0       |



### California Department of Fish and Wildlife



|   |                |                               |   | Elev.          |               | E | Elem | ent O | occ. F | Ranks | 5  | Populatio           | on Status          |        | Presence         |         |
|---|----------------|-------------------------------|---|----------------|---------------|---|------|-------|--------|-------|----|---------------------|--------------------|--------|------------------|---------|
| Name (Scientific/Common)  | CNDDB<br>Ranks | Listing Status<br>(Fed/State) | Other Lists   | Range<br>(ft.) | Total<br>EO's | А | в    | С     | D      | x     | U  | Historic<br>> 20 yr | Recent<br><= 20 yr | Extant | Poss.<br>Extirp. | Extirp. |
| Streptocephalus woottoni  | G1G2           | Endangered                    | IUCN_EN-Endangered  | 1,520          | 83            | 0 | 0    | 0     | 0      | 2     | 0  | 2                   | 0                  | 0      | 1                | 1       |
| Riverside fairy shrimp  | S2             | None                          |   | 1,540          | S:2           |   |      |       |        |       |    |                     |                    |        |                  |         |
| <i>Symphyotrichum defoliatum</i><br>San Bernardino aster              | G2<br>S2       | None<br>None                  | Rare Plant Rank - 1B.2<br>SB_CalBG/RSABG-<br>California/Rancho<br>Santa Ana Botanic<br>Garden<br>SB_CRES-San Diego<br>Zoo CRES Native<br>Gene Seed Bank<br>USFS S-Sensitive | 2,000<br>2,000 | 102<br>S:3    |   | 0    | 0     | 0      | 1     | 2  | 3                   | 0                  | 2      | 0                | 1       |
| <i>Taxidea taxus</i><br>American badger                               | G5<br>S3       | None<br>None                  | CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern  | 1,040<br>5,200 | 645<br>S:3    | 0 | 0    | 0     | 0      | 0     | 3  | 3                   | 0                  | 3      | 0                | 0       |
| <i>Thamnophis hammondii</i><br>two-striped gartersnake                | G4<br>S3S4     | None<br>None                  | BLM_S-Sensitive<br>CDFW_SSC-Species<br>of Special Concern<br>IUCN_LC-Least<br>Concern<br>USFS_S-Sensitive   | 1,352<br>3,460 | 184<br>S:10   | 2 | 2    | 2     | 2      | 1     | 1  | 5                   | 5                  | 9      | 1                | 0       |
| <b>Trichocoronis wrightii var. wrightii</b><br>Wright's trichocoronis | G4T3<br>S1     | None<br>None                  | Rare Plant Rank - 2B.1  | 1,420<br>1,420 | 12<br>S:1     | 0 | 0    | 0     | 0      | 0     | 1  | 1                   | 0                  | 1      | 0                | 0       |
| Vireo bellii pusillus<br>least Bell's vireo                           | G5T2<br>S3     | Endangered<br>Endangered      |   | 680<br>2,020   | 505<br>S:29   |   | 4    | 5     | 0      | 0     | 17 | 5                   | 24                 | 29     | 0                | 0       |

### ?

### CNPS Rare Plant Inventory

| Search Results  | S<br>xport Results             |                                       |                            |          |              |  |  |                             |                              |               |                       |                            |
|---|--------------------------------|---------------------------------------|----------------------------|----------|--------------|--|--|-----------------------------|------------------------------|---------------|-----------------------|----------------------------|
| 87 matches found  | d. Click on scien              | tific name for deta                   | ils                        |          |              |  |  |                             |                              |               |                       |                            |
| Search Criteria: <u>C</u>                                     | <u>)uad</u> is one of [3       | 3411712:3411722:34                    | 11723:34117                | 13:33117 | 83:3311782:3 | 311781:3411711   | :3411721]  |                             |                              |               |                       |                            |
| Scientific Name<br>Threats Genera<br>Photo<br>Filter Results: | Common Name<br>I Habitats Micr | Family Lifeforn<br>ohabitats Lowest f | n Bloomin<br>Elevation (m) | -        |              | State List Glo   |  | e Rank CA<br>lest Elevation | Rare Plant f<br>(ft) CA E    |               | ther Statu<br>Date Ad |                            |
| ▲ SCIENTIFIC<br>NAME  | COMMON<br>NAME                 | LIFEFORM                              | BLOOMING<br>PERIOD         |          |              | GENERAL<br>HABITATS  | MICROHABITATS                                    |                             | HIGHEST<br>ELEVATION<br>(FT) | CA<br>ENDEMIC | DATE<br>ADDED         | рното                      |
| Abronia villosa<br>var. aurita                                | chaparral<br>sand-verbena      | annual herb                           | (Jan)Mar-<br>Sep           | None     | None 1B.1    | Chaparral,<br>Coastal<br>scrub,<br>Desert dunes  | Sandy  | 245                         | 5250                         |               | 2001-<br>01-01        | © 2011<br>Aaron E.<br>Sims |
| Acanthoscyphus<br>parishii var.<br>parishii                   | Parish's<br>oxytheca           | annual herb                           | Jun-Sep                    | None     | None 4.2     | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest   | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes) | 4005                        | 8530                         | Yes           | 2007-<br>04-05        | © 2014<br>Keir<br>Morse    |
| Allium howellii<br>var. clokeyi                               | Mt. Pinos<br>onion             | perennial<br>bulbiferous herb         | Apr-Jun                    | None     | None 1B.3    | Great Basin<br>scrub,<br>Meadows<br>and seeps<br>(edges),<br>Pinyon and<br>juniper<br>woodland |  | 4265                        | 6070                         | Yes           | 1974-<br>01-01        | © 2016<br>Keir<br>Morse    |
| Allium marvinii   | Yucaipa<br>onion               | perennial<br>bulbiferous herb         | Apr-May                    | None     | None 1B.2    | Chaparral<br>(clay,<br>openings)   |  | 2495                        | 3495                         | Yes           | 2001-<br>01-01        | © 2013<br>Keir<br>Morse    |
| Androsace<br>elongata ssp.<br>acuta                           | California<br>androsace        | annual herb                           | Mar-Jun                    | None     | None 4.2     | Chaparral,<br>Cismontane<br>woodland,  |  | 490                         | 4280                         |               | 1994-<br>01-01        |                            |

|  |                                     |                                    |                  |      |      |      | Coastal<br>scrub,<br>Meadows<br>and seeps,<br>Pinyon and<br>juniper<br>woodland,<br>Valley and<br>foothill<br>grassland |   |      |      |     |                | © 2008<br>Aaron<br>Schusteff |
|--|-------------------------------------|------------------------------------|------------------|------|------|------|---|---|------|------|-----|----------------|------------------------------|
| Arenaria<br>paludicola                 | marsh<br>sandwort                   | perennial<br>stoloniferous<br>herb | May-Aug          | FE   | CE   | 1B.1 | Marshes and<br>swamps<br>(brackish,<br>freshwater)  | Openings,<br>Sandy                            | 10   | 560  |     | 1984-<br>01-01 | No Photo<br>Available        |
| Artemisia<br>palmeri                   | San Diego<br>sagewort               | perennial<br>deciduous shrub       | (Feb)May-<br>Sep | None | None | 4.2  | Chaparral,<br>Coastal<br>scrub,<br>Riparian<br>forest,<br>Riparian<br>scrub,<br>Riparian<br>woodland                    | Mesic, Sandy                                  | 15   | 3000 |     | 1974-<br>01-01 | No Photo<br>Available        |
| Asplenium<br>vespertinum               | western<br>spleenwort               | perennial<br>rhizomatous<br>herb   | Feb-Jun          | None | None | 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Coastal scrub  | Rocky   | 590  | 3280 |     | 1974-<br>01-01 | No Photo<br>Available        |
| Astragalus hornii<br>var. hornii       | Horn's milk-<br>vetch               | annual herb                        | May-Oct          | None | None | 1B.1 | Meadows<br>and seeps,<br>Playas   | Alkaline, Lake<br>Margins                     | 195  | 2790 |     | 2006-<br>12-01 | No Photo<br>Available        |
| Astragalus<br>pachypus var.<br>jaegeri | Jaeger's milk-<br>vetch             | perennial shrub                    | Dec-Jun          | None | None | 1B.1 | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub, Valley<br>and foothill<br>grassland                          | Rocky<br>(sometimes),<br>Sandy<br>(sometimes) | 1200 | 3200 | Yes | 1994-<br>01-01 | No Photo<br>Available        |
| Atriplex coronata<br>var. notatior     | San Jacinto<br>Valley<br>crownscale | annual herb                        | Apr-Aug          | FE   | None | 1B.1 | Playas,<br>Valley and<br>foothill<br>grassland<br>(mesic),<br>Vernal pools  | Alkaline                                      | 455  | 1640 | Yes | 1988-<br>01-01 | © 2008<br>Larry<br>Sward     |
| Atriplex                               | Davidson's                          | annual herb                        | Apr-Oct          | None | None | 1B.2 | Coastal bluff   | Alkaline                                      | 35   | 655  |     | 1994-          |                              |

| serenana var.<br>davidsonii            | saltscale                  |                               |                  |      |      |      | scrub,<br>Coastal scrub   | )  |       |      |     | 01-01          | No Photo<br>Available   |
|--|----------------------------|-------------------------------|------------------|------|------|------|---|--|-------|------|-----|----------------|-------------------------|
| Berberis nevinii                       | Nevin's<br>barberry        | perennial<br>evergreen shrub  | (Feb)Mar-<br>Jun | FE   | CE   | 1B.1 | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub,<br>Riparian<br>scrub   | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes) | 230   | 2705 | Yes | 1980-<br>01-01 | No Phot<br>Availabl     |
| Brodiaea filifolia                     | thread-leaved<br>brodiaea  | perennial<br>bulbiferous herb | Mar-Jun          | FT   | CE   | 1B.1 | Chaparral<br>(openings),<br>Cismontane<br>woodland,<br>Coastal<br>scrub,<br>Playas,<br>Valley and<br>foothill<br>grassland,<br>Vernal pools | Clay (often)                                     | 80    | 3675 | Yes | 1974-<br>01-01 | © 2016<br>Keir<br>Morse |
| Calochortus<br>catalinae               | Catalina<br>mariposa lily  | perennial<br>bulbiferous herb | (Feb)Mar-<br>Jun | None | None | 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub, Valley<br>and foothill<br>grassland  |  | 50    | 2295 | Yes | 1974-<br>01-01 | No Phote<br>Available   |
| Calochortus<br>palmeri var.<br>palmeri | Palmer's<br>mariposa-lily  | perennial<br>bulbiferous herb | Apr-Jul          | None | None | 1B.2 | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps   | Mesic  | 2330  | 7840 | Yes | 1994-<br>01-01 | No Phot<br>Available    |
| Calochortus<br>plummerae               | Plummer's<br>mariposa-lily | perennial<br>bulbiferous herb | May-Jul          | None | None | 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub, Lower<br>montane<br>coniferous<br>forest, Valley<br>and foothill<br>grassland    | Granitic, Rock                                   | y 330 | 5580 | Yes | 1994-<br>01-01 | No Phot<br>Available    |
| Calochortus<br>simulans                | La Panza<br>mariposa-lily  | perennial<br>bulbiferous herb | Apr-Jun          | None | None | 1B.3 | Chaparral,<br>Cismontane<br>woodland,<br>Lower  | Granitic<br>(often),<br>Sandy,<br>Serpentinite   | 1065  | 3775 | Yes | 1980-<br>01-01 | © 2011<br>Aaron E       |

|                            |  |                                   |         |      |         | montane<br>coniferous<br>forest, Valley<br>and foothill<br>grassland   | (sometimes) |      |      |     |                | Sims                          |
|----------------------------|--|-----------------------------------|---------|------|---------|--|-------------|------|------|-----|----------------|-------------------------------|
| Carex comosa               | bristly sedge                                  | perennial<br>rhizomatous<br>herb  | May-Sep | None | None 2  | 3.1 Coastal<br>prairie,<br>Marshes and<br>swamps<br>(lake<br>margins),<br>Valley and<br>foothill<br>grassland  |             | 0    | 2050 |     | 1994-<br>01-01 | Dean<br>Wm.<br>Taylor<br>1997 |
| Castilleja cinerea         | ash-gray<br>paintbrush                         | perennial herb<br>(hemiparasitic) | Jun-Aug | FT   | None 1  | <ul> <li>B.2 Meadows<br/>and seeps,<br/>Mojavean<br/>desert scrub,<br/>Pebble<br/>(Pavement)<br/>plain, Pinyon<br/>and juniper<br/>woodland,<br/>Upper<br/>montane<br/>coniferous<br/>forest (clay,<br/>openings)</li> </ul> |             | 5905 | 9710 | Yes | 1974-<br>01-01 | No Photo<br>Available         |
| Castilleja<br>lasiorhyncha | San<br>Bernardino<br>Mountains<br>owl's-clover | annual herb<br>(hemiparasitic)    | May-Aug | None | None 16 | 3.2 Chaparral,<br>Meadows<br>and seeps,<br>Pebble<br>(Pavement)<br>plain,<br>Riparian<br>woodland,<br>Upper<br>montane<br>coniferous<br>forest   | Mesic       | 4265 | 7840 | Yes | 1980-<br>01-01 | No Photo<br>Available         |
| Castilleja<br>montigena    | Heckard's<br>paintbrush                        | perennial herb<br>(hemiparasitic) | May-Aug | None | None 4  | 3 Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland,<br>Upper   |             | 6400 | 9185 | Yes | 1974-<br>01-01 | No Photo<br>Available         |

|  |   |                                |                       |      |      |      | montane<br>coniferous<br>forest  |  |     |      |     |                |                         |
|--|---|--------------------------------|-----------------------|------|------|------|--|--|-----|------|-----|----------------|-------------------------|
| Caulanthus<br>simulans                     | Payson's<br>jewelflower                 | annual herb                    | (Feb)Mar-<br>May(Jun) | None | None | 4.2  | Chaparral,<br>Coastal scrub  | Granitic,<br>Sandy   | 295 | 7220 | Yes | 1974-<br>01-01 | No Photo<br>Available   |
| Centromadia<br>pungens ssp.<br>laevis      | smooth<br>tarplant                      | annual herb                    | Apr-Sep               | None | None | 1B.1 | Chenopod<br>scrub,<br>Meadows<br>and seeps,<br>Playas,<br>Riparian<br>woodland,<br>Valley and<br>foothill<br>grassland | Alkaline   | 0   | 2100 | Yes | 1994-<br>01-01 | No Photo<br>Available   |
| Chloropyron<br>maritimum ssp.<br>maritimum | salt marsh<br>bird's-beak               | annual herb<br>(hemiparasitic) | May-<br>Oct(Nov)      | FE   | CE   | 1B.2 | Coastal<br>dunes,<br>Marshes and<br>swamps<br>(coastal salt)   |  | 0   | 100  |     | 1974-<br>01-01 | No Photo<br>Available   |
| Chorizanthe<br>leptotheca                  | Peninsular<br>spineflower               | annual herb                    | May-Aug               | None | None | 4.2  | Chaparral,<br>Coastal<br>scrub, Lower<br>montane<br>coniferous<br>forest   | Granitic   | 985 | 6235 |     | 1994-<br>01-01 | No Photo<br>Available   |
| Chorizanthe<br>parryi var. parryi          | Parry's<br>spineflower                  | annual herb                    | Apr-Jun               | None | None | 1B.1 | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub, Valley<br>and foothill<br>grassland                         | Openings,<br>Rocky<br>(sometimes),<br>Sandy<br>(sometimes) | 900 | 4005 | Yes | 1994-<br>01-01 | © 2012<br>Keir<br>Morse |
| Chorizanthe<br>xanti var.<br>leucotheca    | white-bracted<br>spineflower            | annual herb                    | Apr-Jun               | None | None | 1B.2 | Coastal<br>scrub<br>(alluvial<br>fans),<br>Mojavean<br>desert scrub,<br>Pinyon and<br>juniper<br>woodland              | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes)           | 985 | 3935 | Yes | 1994-<br>01-01 | No Photo<br>Available   |
| Convolvulus<br>simulans                    | small-<br>flowered<br>morning-<br>glory | annual herb                    | Mar-Jul               | None | None | 4.2  | Chaparral<br>(openings),<br>Coastal<br>scrub, Valley   | Clay, Seeps,<br>Serpentinite                               | 100 | 2430 |     | 1994-<br>01-01 | No Photo<br>Available   |

|  |  |                                  |                  |      |      |      | and foothill<br>grassland  |  |      |      |     |                |                                    |
|--|--|----------------------------------|------------------|------|------|------|--|--|------|------|-----|----------------|------------------------------------|
| Cuscuta<br>obtusiflora var.<br>glandulosa  | Peruvian<br>dodder                             | annual vine<br>(parasitic)       | Jul-Oct          | None | None | 2B.2 | Marshes and<br>swamps<br>(freshwater)  |  | 50   | 920  |     | 2011-<br>08-24 | No Photo<br>Available              |
| Deinandra<br>paniculata                    | paniculate<br>tarplant                         | annual herb                      | (Mar)Apr-<br>Nov | None | None | 4.2  | Coastal<br>scrub, Valley<br>and foothill<br>grassland,<br>Vernal pools                           | Sandy<br>(sometimes),<br>Vernally<br>Mesic (usually)           | 80   | 3085 |     | 2001-<br>01-01 | No Photo<br>Available              |
| Diplacus<br>clevelandii                    | Cleveland's<br>bush<br>monkeyflower            | perennial<br>rhizomatous<br>herb | Apr-Jul          | None | None | 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Lower<br>montane<br>coniferous<br>forest                | Disturbed<br>areas (often),<br>Gabbroic,<br>Openings,<br>Rocky | 1475 | 6560 |     | 1980-<br>01-01 | © 2020<br>W.<br>Juergen<br>Schrenk |
| Dodecahema<br>leptoceras                   | slender-<br>horned<br>spineflower              | annual herb                      | Apr-Jun          | FE   | CE   | 1B.1 | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub<br>(alluvial fans)                     | Sandy  | 655  | 2495 | Yes | 1980-<br>01-01 | No Photo<br>Available              |
| Eriastrum<br>densifolium ssp.<br>sanctorum | Santa Ana<br>River<br>woollystar               | perennial herb                   | Apr-Sep          | FE   | CE   | 1B.1 | Chaparral,<br>Coastal<br>scrub<br>(alluvial fans)  | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes)               | 300  | 2000 | Yes | 1980-<br>01-01 | No Photo<br>Available              |
| Eriophyllum<br>lanatum var.<br>obovatum    | southern<br>Sierra woolly<br>sunflower         | perennial herb                   | Jun-Jul          | None | None | 4.3  | Lower<br>montane<br>coniferous<br>forest, Upper<br>montane<br>coniferous<br>forest               | Loam, Sandy  | 3655 | 8205 | Yes | 1974-<br>01-01 | No Photo<br>Available              |
| Erythranthe<br>exigua                      | San<br>Bernardino<br>Mountains<br>monkeyflower | annual herb                      | May-Jul          | None | None | 1B.2 | Meadows<br>and seeps,<br>Pebble<br>(Pavement)<br>plain, Upper<br>montane<br>coniferous<br>forest | Clay, Mesic  | 5905 | 7595 |     | 1974-<br>01-01 | No Photo<br>Available              |
| Fimbristylis<br>thermalis                  | hot springs<br>fimbristylis                    | perennial<br>rhizomatous<br>herb | Jul-Sep          | None | None | 2B.2 | Meadows<br>and seeps<br>(alkaline,<br>near hot<br>springs)                                       |  | 360  | 4395 |     | 1980-<br>01-01 | No Photo<br>Available              |

| Frasera neglecta                         | pine green-<br>gentian   | perennial herb                   | May-Jul          | None | None | 4.3  | Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland,<br>Upper<br>montane<br>coniferous<br>forest  |  | 4595 | 8205  | Yes | 1980-<br>01-01 | No Photo<br>Available     |
|--|--------------------------|----------------------------------|------------------|------|------|------|--|--|------|-------|-----|----------------|---------------------------|
| <i>Fritillaria</i><br>pinetorum          | pine fritillary          | perennial<br>bulbiferous herb    | May-<br>Jul(Sep) | None | None | 4.3  | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland,<br>Subalpine<br>coniferous<br>forest, Upper<br>montane<br>coniferous<br>forest | Granitic<br>(sometimes),<br>Metamorphic<br>(sometimes) | 5695 | 10825 | Yes | 2001-<br>01-01 | © 2008<br>Steve<br>Matson |
| Galium<br>californicum ssp.<br>primum    |                          | perennial herb                   | May-Jul          | None | None | 1B.2 | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest   | Granitic,<br>Sandy                                     | 4430 | 5580  | Yes | 1974-<br>01-01 | © 2013<br>Keir<br>Morse   |
| Galium<br>johnstonii                     | Johnston's<br>bedstraw   | perennial herb                   | Jun-Jul          | None | None | 4.3  | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland,<br>Riparian<br>woodland  |  | 4005 | 7545  | Yes | 1974-01-01     | © 2015<br>Keir<br>Morse   |
| Helianthus<br>nuttallii ssp.<br>parishii | Los Angeles<br>sunflower | perennial<br>rhizomatous<br>herb | Aug-Oct          | None | None | 1A   | Marshes and<br>swamps<br>(freshwater,<br>coastal salt)   |  | 35   | 5005  | Yes | 1974-<br>01-01 | No Photo<br>Available     |
| Heuchera<br>caespitosa                   | urn-flowered<br>alumroot | perennial<br>rhizomatous<br>herb | May-Aug          | None | None | 4.3  | Cismontane<br>woodland,<br>Lower   | Rocky  | 3790 | 8695  | Yes | 1974-<br>01-01 | © 2015                    |

|                                   |                      |                                  |                  |      |      |      | montane<br>coniferous<br>forest,<br>Riparian<br>forest<br>(montane),<br>Upper<br>montane<br>coniferous<br>forest   |   |      |       |     |                | Keir<br>Morse             |
|-----------------------------------|----------------------|----------------------------------|------------------|------|------|------|--|---|------|-------|-----|----------------|---------------------------|
| Heuchera<br>parishii              | Parish's<br>alumroot | perennial<br>rhizomatous<br>herb | Jun-Aug          | None | None | 18.3 | Alpine<br>boulder and<br>rock field,<br>Lower<br>montane<br>coniferous<br>forest,<br>Subalpine<br>coniferous<br>forest, Upper<br>montane<br>coniferous<br>forest | Carbonate<br>(sometimes),<br>Rocky  | 4920 | 12470 | Yes | 1974-<br>01-01 | © 2015<br>Keir<br>Morse   |
| Hordeum<br>intercedens            | vernal barley        | annual herb                      | Mar-Jun          | None | None | 3.2  | Coastal<br>dunes,<br>Coastal<br>scrub, Valley<br>and foothill<br>grassland<br>(depressions,<br>saline flats),<br>Vernal pools                                    |   | 15   | 3280  |     | 1994-<br>01-01 | No Photo<br>Available     |
| Horkelia cuneata<br>var. puberula | mesa horkelia        | perennial herb                   | Feb-<br>Jul(Sep) | None | None | 1B.1 | Chaparral<br>(maritime),<br>Cismontane<br>woodland,<br>Coastal scrub   | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes)                            | 230  | 2660  | Yes | 2001-<br>01-01 | © 2008<br>Tony<br>Morosco |
| Hulsea vestita<br>ssp. parryi     | Parry's<br>sunflower | perennial herb                   | Apr-Aug          | None | None | 4.3  | Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland,<br>Upper<br>montane<br>coniferous<br>forest                                      | Carbonate<br>(sometimes),<br>Granitic<br>(sometimes),<br>Openings,<br>Rocky | 4495 | 9500  | Yes | 1994-<br>01-01 | © 2015<br>Keir<br>Morse   |

| Imperata<br>brevifolia                    | California<br>satintail                | perennial<br>rhizomatous<br>herb | Sep-May | None None 2B.1 | Chaparral,<br>Coastal<br>scrub,<br>Meadows<br>and seeps<br>(often alkali),<br>Mojavean<br>desert scrub,<br>Riparian<br>scrub | Mesic    | 0    | 3985 |     | 2006-<br>12-26 | © 2020<br>Matt C.<br>Berger |
|---|--|----------------------------------|---------|----------------|--|----------|------|------|-----|----------------|-----------------------------|
| lvesia<br>argyrocoma var.<br>argyrocoma   | silver-haired<br>ivesia                | perennial herb                   | Jun-Aug | None None 1B.2 | Meadows<br>and seeps<br>(alkaline),<br>Pebble<br>(Pavement)<br>plain, Upper<br>montane<br>coniferous<br>forest               |          | 4800 | 9710 | Yes | 1974-<br>01-01 | © 2015<br>Keir<br>Morse     |
| Juglans<br>californica                    | Southern<br>California<br>black walnut | perennial<br>deciduous tree      | Mar-Aug | None None 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Coastal<br>scrub,<br>Riparian<br>woodland   |          | 165  | 2955 | Yes | 1994-<br>01-01 | © 2020<br>Zoya<br>Akulova   |
| Juncus duranii                            | Duran's rush                           | perennial<br>rhizomatous<br>herb | Jul-Aug | None None 4.3  | Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps,<br>Upper<br>montane<br>coniferous<br>forest               | Mesic    | 5800 | 9200 | Yes | 1974-<br>01-01 | © 2017<br>Keir<br>Morse     |
| Lasthenia<br>glabrata ssp.<br>coulteri    | Coulter's<br>goldfields                | annual herb                      | Feb-Jun | None None 1B.1 | Marshes and<br>swamps<br>(coastal salt),<br>Playas,<br>Vernal pools  |          | 5    | 4005 |     | 1994-<br>01-01 | © 2013<br>Keir<br>Morse     |
| Lepidium<br>virginicum var.<br>robinsonii | Robinson's<br>pepper-grass             | annual herb                      | Jan-Jul | None None 4.3  | Chaparral,<br>Coastal scrub  |          | 5    | 2905 |     | 1994-<br>01-01 | © 2015<br>Keir<br>Morse     |
| Lilium                                    | ocellated                              | perennial                        | Mar-    | None None 4.2  | Chaparral,   | Openings | 100  | 5905 | Yes | 1980-          |                             |

|  | Staren Results           |                                  |          |              |   |            |      |      |     |                |                               |
|--|--------------------------|----------------------------------|----------|--------------|---|------------|------|------|-----|----------------|-------------------------------|
| humboldtii ssp.<br>ocellatum           | Humboldt lily            | bulbiferous herb                 | Jul(Aug) |              | Cismontane<br>woodland,<br>Coastal<br>scrub, Lowe<br>montane<br>coniferous<br>forest,<br>Riparian<br>woodland                         | r          |      |      |     | 01-01          | © 2008<br>Thomas<br>Stoughton |
| Lilium parryi                          | lemon lily               | perennial<br>bulbiferous herb    | Jul-Aug  | None None 1  | 3.2 Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps,<br>Riparian<br>forest, Uppe<br>montane<br>coniferous<br>forest | Mesic<br>r | 4005 | 9005 |     | 1974-<br>01-01 | © 2009<br>Thomas<br>Stoughton |
| Lycium parishii                        | Parish's<br>desert-thorn | perennial shrub                  | Mar-Apr  | None None 2  | B.3 Coastal<br>scrub,<br>Sonoran<br>desert scrub  | 1          | 445  | 3280 |     | 1980-<br>01-01 | No Photo<br>Available         |
| Malacothamnus<br>parishii              | Parish's bush-<br>mallow | perennial<br>deciduous shrub     | Jun-Jul  | None None 1, | A Chaparral,<br>Coastal scru  | b          | 1000 | 1495 | Yes | 1974-<br>01-01 | © 2021<br>Keir<br>Morse       |
| Monardella<br>macrantha ssp.<br>hallii | Hall's<br>monardella     | perennial<br>rhizomatous<br>herb | Jun-Oct  | None None 1  | upland<br>forest,<br>Chaparral,<br>Cismontane<br>woodland,<br>Lower<br>montane  |            | 2395 | 7200 | Yes | 1974-<br>01-01 | No Photo<br>Available         |
|  |                          |                                  |          |              | coniferous<br>forest, Valley<br>and foothill<br>grassland   |            |      |      |     |                |                               |
| Monardella<br>pringlei                 | Pringle's<br>monardella  | annual herb                      | May-Jun  | None None 1, | forest, Valley<br>and foothill<br>grassland   |            | 985  | 1310 | Yes | 1974-<br>01-01 | No Photo<br>Available         |

| CNPS Rare Plant Inventory   Search | Results |
|------------------------------------|---------|
|------------------------------------|---------|

|   |                              | herb                             |                  |      |      |      | scrub, Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps  |      |      |     |                | Available             |
|---|------------------------------|----------------------------------|------------------|------|------|------|---|------|------|-----|----------------|-----------------------|
| Muilla coronata                             | crowned<br>muilla            | perennial<br>bulbiferous herb    | Mar-<br>Apr(May) | None | None | 4.2  | Chenopod<br>scrub,<br>Joshua tree<br>"woodland",<br>Mojavean<br>desert scrub,<br>Pinyon and<br>juniper<br>woodland                    | 2200 | 6430 |     | 1988-<br>01-01 | No Photo<br>Available |
| Nama<br>stenocarpa                          | mud nama                     | annual/perennial<br>herb         | Jan-Jul          | None | None | 2B.2 | Marshes and<br>swamps<br>(lake<br>margins,<br>riverbanks)   | 15   | 1640 |     | 1994-<br>01-01 | No Photo<br>Available |
| Nasturtium<br>gambelii                      | Gambel's<br>water cress      | perennial<br>rhizomatous<br>herb | Apr-Oct          | FE   | CT   | 1B.1 | Marshes and<br>swamps<br>(brackish,<br>freshwater)  | 15   | 1085 |     | 1980-<br>01-01 | No Photo<br>Available |
| Packera<br>bernardina                       | San<br>Bernardino<br>ragwort | perennial herb                   | May-Jul          | None | None | 1B.2 | Meadows<br>and seeps<br>(mesic,<br>sometimes<br>alkaline),<br>Pebble<br>(Pavement)<br>plain, Upper<br>montane<br>coniferous<br>forest | 5905 | 7545 | Yes | 1974-<br>01-01 | No Photo<br>Available |
| Pelazoneuron<br>puberulum var.<br>sonorense | Sonoran<br>maiden fern       | perennial<br>rhizomatous<br>herb | Jan-Sep          | None | None | 2B.2 | Meadows<br>and seeps<br>(seeps,<br>streams)   | 165  | 2000 |     | 1994-<br>01-01 | No Photo<br>Available |
| Perideridia<br>parishii ssp.<br>parishii    | Parish's<br>yampah           | perennial herb                   | Jun-Aug          | None | None | 2B.2 | Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps,<br>Upper<br>montane<br>coniferous                                  | 4805 | 9845 |     | 1974-<br>01-01 | No Photo<br>Available |

|                                       |                                   |                                  |                  |                | forest  |  |      |      |     |                |                       |
|---------------------------------------|-----------------------------------|----------------------------------|------------------|----------------|---|--|------|------|-----|----------------|-----------------------|
| Phacelia<br>mohavensis                | Mojave<br>phacelia                | annual herb                      | Apr-Aug          | None None 4.3  | woodland,<br>Lower  | Gravelly<br>(sometimes),<br>Sandy<br>(sometimes) | 4595 | 8205 | Yes | 1994-<br>01-01 | No Photo<br>Available |
| Phacelia stellaris                    | Brand's star<br>phacelia          | annual herb                      | Mar-Jun          | None None 1B.1 | Coastal<br>dunes,<br>Coastal scrub  |  | 5    | 1310 |     | 1994-<br>01-01 | No Photo<br>Available |
| Piperia<br>leptopetala                | narrow-<br>petaled rein<br>orchid | perennial herb                   | May-Jul          | None None 4.3  | Cismontane<br>woodland,<br>Lower<br>montane<br>coniferous<br>forest, Upper<br>montane<br>coniferous<br>forest |  | 1245 | 7300 | Yes | 2001-<br>01-01 | No Photo<br>Available |
| Quercus<br>engelmannii                | Engelmann<br>oak                  | perennial<br>deciduous tree      | Mar-Jun          | None None 4.2  | Chaparral,<br>Cismontane<br>woodland,<br>Riparian<br>woodland,<br>Valley and<br>foothill<br>grassland         |  | 165  | 4265 |     | 1988-<br>01-01 | No Photo<br>Available |
| Ribes<br>divaricatum var.<br>parishii | Parish's<br>gooseberry            | perennial<br>deciduous shrub     | Feb-Apr          | None None 1A   | Riparian<br>woodland  |  | 215  | 985  | Yes | 1988-<br>01-01 | No Photo<br>Available |
| Romneya<br>coulteri                   | Coulter's<br>matilija poppy       | perennial<br>rhizomatous<br>herb | Mar-<br>Jul(Aug) | None None 4.2  | Chaparral,<br>Coastal scrub   | Burned areas<br>(often)                          | 65   | 3935 |     | 1974-<br>01-01 | No Photo<br>Available |
| Rupertia rigida                       | Parish's<br>rupertia              | perennial herb                   | Jun-Aug          | None None 4.3  | Chaparral,<br>Cismontane<br>woodland,<br>Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps,   |  | 2295 | 8205 |     | 1974-<br>01-01 | No Photo<br>Available |

| Schoenus<br>nigricans                  | black bog-<br>rush          | perennial herb | Aug-Sep          | None | None | 2B.2 | Pebble<br>(Pavement)<br>plain, Valley<br>and foothill<br>grassland<br>Marshes and<br>swamps<br>(often<br>alkaline)  |                         | 490  | 6560 |     | 2001-<br>01-01 | No Photo<br>Available |
|--|-----------------------------|----------------|------------------|------|------|------|---|-------------------------|------|------|-----|----------------|-----------------------|
| Senecio<br>aphanactis                  | chaparral<br>ragwort        | annual herb    | Jan-<br>Apr(May) | None | None | 2B.2 | Chaparral,<br>Cismontane<br>woodland,<br>Coastal scrub  | Alkaline<br>(sometimes) | 50   | 2625 |     | 1994-<br>01-01 | No Photo<br>Available |
| Senecio<br>astephanus                  | San Gabriel<br>ragwort      | perennial herb | May-Jul          | None | None | 4.3  | Chaparral,<br>Coastal bluff<br>scrub  | Rocky, Slopes           | 1310 | 4920 | Yes | 2006-<br>12-21 | No Photo<br>Available |
| Sidalcea<br>hickmanii ssp.<br>parishii | Parish's<br>checkerbloom    | perennial herb | (May)Jun-<br>Aug | None | CR   | 18.2 | Chaparral,<br>Cismontane<br>woodland,<br>Lower<br>montane<br>coniferous<br>forest   |                         | 3280 | 8200 | Yes | 1974-<br>01-01 | No Photo<br>Available |
| Sidalcea<br>malviflora ssp.<br>dolosa  | Bear Valley<br>checkerbloom | perennial herb | May-Aug          | None | None | 1B.2 | Lower<br>montane<br>coniferous<br>forest<br>(meadows,<br>seeps),<br>Meadows<br>and seeps,<br>Riparian<br>woodland,<br>Upper<br>montane<br>coniferous<br>forest<br>(meadows,<br>seeps) |                         | 4905 | 8810 | Yes | 2012-<br>06-13 | No Photo<br>Available |
| Sidalcea<br>neomexicana                | salt spring<br>checkerbloom | perennial herb | Mar-Jun          | None | None | 2B.2 | Chaparral,<br>Coastal<br>scrub, Lower<br>montane<br>coniferous<br>forest,<br>Mojavean<br>desert scrub,<br>Playas  | Alkaline, Mesic         | : 50 | 5020 |     | 1994-<br>01-01 | No Photo<br>Available |

| Sidalcea pedata                            | bird-foot<br>checkerbloom          | perennial herb                   | May-Aug          | FE   | CE   | 1B.1 | Meadows<br>and seeps<br>(mesic),<br>Pebble<br>(Pavement)<br>plain   |             | 5250 | 8205 | Yes | 1974-<br>01-01 | No Photo<br>Available  |
|--|------------------------------------|----------------------------------|------------------|------|------|------|---|-------------|------|------|-----|----------------|------------------------|
| Sidotheca<br>caryophylloides               | chickweed<br>oxytheca              | annual herb                      | Jul-<br>Sep(Oct) | None | None | 4.3  | Lower<br>montane<br>coniferous<br>forest (sandy)  |             | 3655 | 8530 | Yes | 1980-<br>01-01 | ©2021<br>Keir<br>Morse |
| Sphenopholis<br>obtusata                   | prairie wedge<br>grass             | perennial herb                   | Apr-Jul          | None | None | 2B.2 | Cismontane<br>woodland,<br>Meadows<br>and seeps   | Mesic       | 985  | 6560 |     | 1974-<br>01-01 | No Photo<br>Available  |
| Streptanthus<br>bernardinus                | Laguna<br>Mountains<br>jewelflower | perennial herb                   | May-Aug          | None | None | 4.3  | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest  |             | 2200 | 8205 | Yes | 1980-<br>01-01 | No Photo<br>Available  |
| Streptanthus<br>campestris                 | southern<br>jewelflower            | perennial herb                   | (Apr)May-<br>Jul | None | None | 1B.3 | Chaparral,<br>Lower<br>montane<br>coniferous<br>forest,<br>Pinyon and<br>juniper<br>woodland  | Rocky       | 2955 | 7545 |     | 1994-<br>01-01 | No Photo<br>Available  |
| Symphyotrichum<br>defoliatum               | San<br>Bernardino<br>aster         | perennial<br>rhizomatous<br>herb | Jul-Nov          | None | None | 1B.2 | Cismontane<br>woodland,<br>Coastal<br>scrub, Lower<br>montane<br>coniferous<br>forest,<br>Marshes and<br>swamps,<br>Meadows<br>and seeps,<br>Valley and<br>foothill<br>grassland<br>(vernally<br>mesic) | Streambanks | 5    | 6695 | Yes | 2004-<br>01-01 | No Photo<br>Available  |
| Trichocoronis<br>wrightii var.<br>wrightii | Wright's<br>trichocoronis          | annual herb                      | May-Sep          | None | None | 2B.1 | Marshes and<br>swamps,<br>Meadows   | Alkaline    | 15   | 1425 |     | 1988-<br>01-01 | No Photo<br>Available  |

|                           |                                 |             |         |               | and seeps,<br>Riparian<br>forest,<br>Vernal pools                 | s     |      |      |                |                       |
|---------------------------|---------------------------------|-------------|---------|---------------|---|-------|------|------|----------------|-----------------------|
| Trichostema<br>micranthum | small-<br>flowered<br>bluecurls | annual herb | Jun-Sep | None None 4.3 | Lower<br>montane<br>coniferous<br>forest,<br>Meadows<br>and seeps | Mesic | 5005 | 7545 | 1974-<br>01-01 | No Photo<br>Available |

Showing 1 to 87 of 87 entries

Suggested Citation:

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# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

### Location

San Bernardino County, California



## Local office

Carlsbad Fish And Wildlife Office

↓ (760) 431-9440
↓ (760) 431-5901

2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385

NOTFORCONSULTATION

# Endangered species

# This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

 Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ). 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

### Mammals

| NAME   | STATUS     |
|--|------------|
| San Bernardino Merriam's Kangaroo Rat Dipodomys<br>merriami parvus<br>Wherever found<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br>https://ecos.fws.gov/ecp/species/2060   | Endangered |
| Stephens' Kangaroo Rat Dipodomys stephensi (incl. D.<br>cascus)<br>Wherever found<br>No critical habitat has been designated for this species.<br>https://ecos.fws.gov/ecp/species/3495  | Threatened |
| Birds  |            |
| NAME   | STATUS     |
| Coastal California Gnatcatcher Polioptila californica<br>californica<br>Wherever found<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br>https://ecos.fws.gov/ecp/species/8178 | Threatened |
| Least Bell's Vireo Vireo bellii pusillus<br>Wherever found<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br><u>https://ecos.fws.gov/ecp/species/5945</u>                      | Endangered |



NAME

STATUS

### Southwestern Pond Turtle Actinemys pallida Wherever found

Proposed Threatened

No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/4768</u>

### Fishes

| NAME  | STATUS     |
|---|------------|
| Santa Ana Sucker Catostomus santaanae<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br><u>https://ecos.fws.gov/ecp/species/3785</u>                | Threatened |
| Insects   | 10.        |
| NAME  | STATUS     |
| Monarch Butterfly Danaus plexippus<br>Wherever found<br>No critical habitat has been designated for this species.<br><u>https://ecos.fws.gov/ecp/species/9743</u><br>Flowering Plants                             | Candidate  |
| NAME  | STATUS     |
| Nevin's Barberry Berberis nevinii<br>Wherever found<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br>https://ecos.fws.gov/ecp/species/8025         | Endangered |
| San Diego Ambrosia Ambrosia pumila<br>Wherever found<br>There is final critical habitat for this species. Your location does<br>not overlap the critical habitat.<br><u>https://ecos.fws.gov/ecp/species/8287</u> | Endangered |
| Slender-horned Spineflower Dodecahema leptoceras<br>Wherever found<br>No critical habitat has been designated for this species.<br><u>https://ecos.fws.gov/ecp/species/4007</u>                                   | Endangered |

### **Critical habitats**

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

# Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

### There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME

Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

### Golden Eagle Aquila chrysaetos

Breeds Jan 1 to Aug 31

Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1680</u>

### **Probability of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

### No Data (–)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

|                                       |            |     | 🔳 pr   | obabilit | y of pre     | sence | breed | ding sea | son I s | urvey e | ffort - | – no data |
|---------------------------------------|------------|-----|--------|----------|--------------|-------|-------|----------|---------|---------|---------|-----------|
| SPECIES                               | JAN        | FEB | MAR    | APR      | MAY          | JUN   | JUL   | AUG      | SEP     | OCT     | NOV     | DEC       |
| Bald Eagle<br>Non-BCC<br>Vulnerable   |            | Į.  | 1111   | ++++     | ++++         | ++++  | ++++  | ++++     | ++++    | ++++    | - ++++  | - +++##   |
| Golden Eagle<br>Non-BCC<br>Vulnerable | ) <b> </b> | +++ | + ++++ | ┼┼┼╪     | <b>•</b> +++ | ++++  | ++++  | ++++     | ++++    | +##+    | - ++++  | - +++++   |

# What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge</u> <u>Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science</u> <u>datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the <u>Eagle Act</u> should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

# Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

#### IPaC: Explore Location resources

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

| NAME  | BREEDING SEASON         |
|---|-------------------------|
| Allen's Hummingbird Selasphorus sasin<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.<br><u>https://ecos.fws.gov/ecp/species/9637</u>  | Breeds Feb 1 to Jul 15  |
| Bald Eagle Haliaeetus leucocephalus<br>This is not a Bird of Conservation Concern (BCC) in this area,<br>but warrants attention because of the Eagle Act or for potential<br>susceptibilities in offshore areas from certain types of<br>development or activities. | Breeds Jan 1 to Aug 31  |
| Belding's Savannah Sparrow Passerculus sandwichensis<br>beldingi<br>This is a Bird of Conservation Concern (BCC) only in particular<br>Bird Conservation Regions (BCRs) in the continental USA<br>https://ecos.fws.gov/ecp/species/8                                | Breeds Apr 1 to Aug 15  |
| Bullock's Oriole Icterus bullockii<br>This is a Bird of Conservation Concern (BCC) only in particular<br>Bird Conservation Regions (BCRs) in the continental USA  | Breeds Mar 21 to Jul 25 |
| California Gull Larus californicus<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.   | Breeds Mar 1 to Jul 31  |

|  | esources                |
|--|-------------------------|
| <b>California Thrasher</b> Toxostoma redivivum<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.  | Breeds Jan 1 to Jul 31  |
| Cassin's Finch Carpodacus cassinii<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.<br><u>https://ecos.fws.gov/ecp/species/9462</u>  | Breeds May 15 to Jul 15 |
| Clark's Grebe Aechmophorus clarkii<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.  | Breeds Jun 1 to Aug 31  |
| <b>Common Yellowthroat</b> Geothlypis trichas sinuosa<br>This is a Bird of Conservation Concern (BCC) only in particular<br>Bird Conservation Regions (BCRs) in the continental USA<br><u>https://ecos.fws.gov/ecp/species/2084</u>  | Breeds May 20 to Jul 31 |
| Golden Eagle Aquila chrysaetos<br>This is not a Bird of Conservation Concern (BCC) in this area,<br>but warrants attention because of the Eagle Act or for potential<br>susceptibilities in offshore areas from certain types of<br>development or activities.<br><u>https://ecos.fws.gov/ecp/species/1680</u> | Breeds Jan 1 to Aug 31  |
| Lawrence's Goldfinch Carduelis lawrencei<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.<br><u>https://ecos.fws.gov/ecp/species/9464</u>  | Breeds Mar 20 to Sep 20 |
| Nuttall's Woodpecker Picoides nuttallii<br>This is a Bird of Conservation Concern (BCC) only in particular<br>Bird Conservation Regions (BCRs) in the continental USA<br><u>https://ecos.fws.gov/ecp/species/9410</u>  | Breeds Apr 1 to Jul 20  |
| Oak Titmouse Baeolophus inornatus<br>This is a Bird of Conservation Concern (BCC) throughout its<br>range in the continental USA and Alaska.<br><u>https://ecos.fws.gov/ecp/species/9656</u>   | Breeds Mar 15 to Jul 15 |

Olive-sided Flycatcher Contopus cooperi This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3914</u>

Breeds Mar 15 to Aug 10

Tricolored Blackbird Agelaius tricolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3910</u>

Wrentit Chamaea fasciata

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

### Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

### No Data (–)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

|  |                |            | 🔳 pr          | obabilit | y of pre | sence | breed | ding seas | son Is | urvey ef     | ffort —       | no data      |
|--|----------------|------------|---------------|----------|----------|-------|-------|-----------|--------|--------------|---------------|--------------|
| SPECIES  | JAN            | FEB        | MAR           | APR      | MAY      | JUN   | JUL   | AUG       | SEP    | OCT          | NOV           | DEC          |
| Allen's<br>Hummingbird<br>BCC Rangewide<br>(CON) |                | <b>UII</b> | HI            |          |          |       |       |           |        |              |               | ++###        |
| Bald Eagle<br>Non-BCC<br>Vulnerable              | ++++           | +++        | +++++         | ++++     | ++++     | ++++  | ++++  | ++++      | ++++   | ++++         | ++++          | ++##         |
| Belding's<br>Savannah<br>Sparrow<br>BCC - BCR    | +#++           | **         | • •#•#        | ++++     | ++++     | ++++  | ++++  | +∔∎≢      | ****   |              | ∎∎∎∔          | ┼┼║♥         |
| Bullock's Oriole<br>BCC - BCR                    | • ++++         | +++-       | + ++          |          |          | 111   | 1111  |           | ▋₽₽┼   | ++++         | ₩+++          | ++++         |
| California Gull<br>BCC Rangewide<br>(CON)        | , <b>#</b> ### | ***        | • • • • • • • | ╪╪╪┼     | ++++     | ++++  | ++++  | ++++++    | ++++   | <b>#</b> +#+ | + <b>∳</b> ∔∎ | <b>###</b> + |

| California<br>Thrasher<br>BCC Rangewide<br>(CON)    |              | 1111         |                     |            |                     |      | 1111 |                    | 1111   |       |              |                       |
|---|--------------|--------------|---------------------|------------|---------------------|------|------|--------------------|--------|-------|--------------|-----------------------|
| Cassin's Finch<br>BCC Rangewide<br>(CON)            | ++++         | ++++         | ++++                | ++++       | ++++                | ++++ | ++++ | ++++               | ++++   | ++++  | ++++         | ++++                  |
| Clark's Grebe<br>BCC Rangewide<br>(CON)             | ++++         | ++++         | ++++++              | ++++       | ++++                | ++++ | ++++ | ++++               | ++++   | ++++  | ++++         | ++++                  |
| Common<br>Yellowthroat<br>BCC - BCR                 | ****         |              |                     |            |                     | 1111 |      |                    |        |       | <b>I</b> ### | ••••                  |
| Golden Eagle<br>Non-BCC<br>Vulnerable               | <b>┿</b> ╫╫  | ++++         | ++++                | ┼┼┼╪       | <b>•</b> +++        | ++++ | ++++ | ++++               | ++++   | +••+  | ++++         | +++++                 |
| Lawrence's<br>Goldfinch<br>BCC Rangewide<br>(CON)   | +++#         | ***          | 11 <mark>11</mark>  |            |                     |      | 1111 | •••                |        | autet | <b>0</b> 444 | ++++                  |
| Nuttall's<br>Woodpecker<br>BCC - BCR                |              |              |                     |            |                     |      | 5    | <u>iiii</u>        | 1111   |       |              |                       |
| SPECIES   | JAN          | FEB          | MAR                 | APR        | MAY                 | JUN  | JUL  | AUG                | SEP    | OCT   | NOV          | DEC                   |
| Oak Titmouse<br>BCC Rangewide<br>(CON)              | <b>##</b> +# | <b>*†</b> ++ | •                   | HH         | <del>     </del>    | ++++ | ∎∔∎+ | ++++               | ++##   | ₿┼┿₩  | ++++         | <b>#</b> + <b>#</b> + |
| Olive-sided<br>Flycatcher<br>BCC Rangewide<br>(CON) | ++++         | ++++         | ++++                | <b>┼┿₩</b> | ∎∎ <mark>∎</mark> ∔ | ++++ | ++++ | +++                | +**+   | ++++  | ++++         | ++++                  |
| Tricolored<br>Blackbird<br>BCC Rangewide<br>(CON)   | ++++         | ++++         | + <mark>+</mark> ++ | ++++       | ++++                | ++++ | ++++ | <mark>┼┼</mark> ┼┼ | ++++++ | +##+  | ++++         | +++#                  |
| Wrentit<br>BCC Rangewide<br>(CON)                   |              | ***1         | 1                   |            |                     | 1111 |      |                    |        |       | 1111         | 1111                  |

# Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

# What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge</u> <u>Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science</u> <u>datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

# What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and</u> <u>citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in

offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data</u> <u>Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird</u> <u>Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Facilities

# National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

# Fish hatcheries

There are no fish hatcheries at this location.

# Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

### This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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**ATTACHMENT 3 – PLANT SPECIES OBSERVED** 

### ATTACHMENT 3 – PLANT SPECIES OBSERVED

| Scientific Name        | Common Name             |
|------------------------|-------------------------|
| ANGIOSPERMS (EUDICOTS) |                         |
| AMARANTHACEAE          | AMARANTH FAMILY         |
| Amaranthus albus*      | tumbling pigweed        |
| ASTERACEAE             | SUNFLOWER FAMILY        |
| Erigeron bonariensis*  | flax-leaved horseweed   |
| BORAGINACEAE           | BORAGE FAMILY           |
| Amsinckia menziesii    | common fiddleneck       |
| BRASSICACEAE           | MUSTARD FAMILY          |
| Brassica fruticulosa*  | Mediterranean cabbage   |
| Brassica tournefortii* | Sahara mustard          |
| Sisymbrium irio*       | London rocket           |
| CHENOPODIACEAE         | GOOSEFOOT FAMILY        |
| Salsola australis*     | Russian-thistle         |
| GERANIACEAE            | GERANIUM FAMILY         |
| Erodium cicutarium*    | red-stemmed filaree     |
| MALVACEAE              | MALLOW FAMILY           |
| Malva parviflora*      | cheeseweed              |
| MYRTACEAE              | MYRTLE FAMILY           |
| Eucalyptus sp.*        | gum tree                |
| SOLANACEAE             | NIGHTSHADE FAMILY       |
| Datura wrightii        | jimson weed             |
| URTICACEAE             | NETTLE FAMILY           |
| Urtica urens*          | dwarf nettle            |
| ANGIOSPERMS (MONOCOTS) |                         |
| POACEAE                | GRASS FAMILY            |
| Bromus diandrus*       | ripgut grass            |
| Cynodon dactylon*      | Bermuda grass           |
| Hordeum murinum*       | glaucous foxtail barley |
| Schismus barbatus*     | Mediterranean schismus  |
| *Non-Native Species    |                         |

**ATTACHMENT 4 – WILDLIFE SPECIES OBSERVED** 

### ATTACHMENT 4 – WILDLIFE SPECIES OBSERVED OR DETECTED

| Scientific Name      | Common Name             |
|----------------------|-------------------------|
| CLASS AVES           | BIRDS                   |
| CORVIDAE             | JAYS & CROWS            |
| Corvus corax         | common raven            |
| CHARADRIIDAE         | PLOVERS                 |
| Charadrius vociferus | killdeer                |
| PARULIDAE            | WOOD WARBLERS           |
| Setophaga coronata   | yellow-rumped warbler   |
| TYRANNIDAE           | TYRANT FLYCATCHERS      |
| Sayornis nigricans   | black phoebe            |
| COLUMBIDAE           | PIGEONS & DOVES         |
| Zenaida macroura     | mourning dove           |
| ACCIPITRIDAE         | HAWKS, KITES, EAGLES    |
| Buteo jamaicensis    | red-tailed hawk         |
| MIMIDAE              | MOCKINGBIRDS, THRASHERS |
| Mimus polyglottos    | northern mockingbird    |
| MOTACILLIDAE         | PIPITS                  |
| Anthus rubescens     | American pipit          |

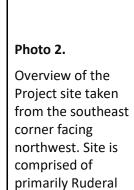
**ATTACHMENT 5 – SITE PHOTOGRAPHS** 

### **ATTACHMENT 5 – SITE PHOTOGRAPHS**

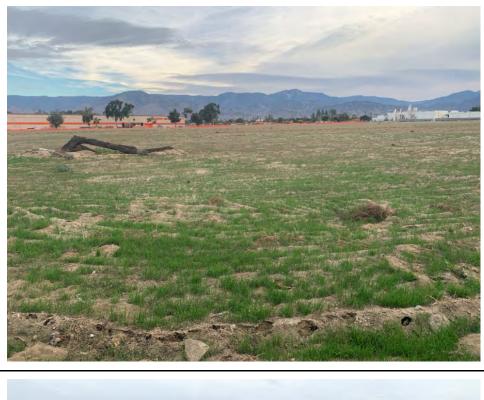


### Photo 1.

Photo depicting the disturbed discmowed soils and tire tracks that were observed throughout the Project site. Photo was taken along the eastern border facing west.



areas.



### Photo 3.

Overview of the Project site taken from the southwest corner facing northeast. Site is comprised of primarily Ruderal areas.



### Photo 4.

Overview of the Project site taken from the northwest corner facing southeast. Site is comprised of primarily Ruderal areas.



### Photo 5.

Overview of the Project site taken from the northeast corner facing southwest. Site is comprised of primarily Ruderal areas.



### Photo 6.

Overview of the Project site taken from the center facing west. Site is comprised of primarily Ruderal areas.



### Photo 7.

Overview of the Project site taken from the center facing east. The site is comprised of primarily Ruderal vegetation. A small area of Developed sidewalk is present along the eastern border of the Project site.