

This page intentionally left blank.

| Common and Scientific Names | Status Federal/ State/CNPS | Geographic Distribution/ Floristic Province | Habitat Requirements | Blooming Period | Likelihood of Occurrence in Study Area |
|---|----------------------------------|---|--|--------------------|--|
| Stebbin's morning-glory Calystegia stebbinsii | E/E/IB.I | Known from fewer than 15 occurrences in the northern Sierra Nevada foothills in El Dorado and Nevada counties | Gabbro or serpentine soils in chaparral openings, cismontane woodland; 607–2,395 feet (185–1,090 meters) | April–July | Not Expected: typically occurs on gabbroic and serpentine derived soils, which are not present in the Study Area; |
| Chaparral sedge Carex xerophila | //IB.2 | Recorded in several locations from El Dorado County north to Butte County | Chaparral, cismontane woodland, lower montane coniferous forest | MarchJune | Not Expected: typically occurs in chaparral habitats |
| Pine Hill ceanothus Ceanothus roderickii | E/R/IB.I | Endemic to El Dorado County | Serpentine or gabbroic soils in chaparral or cismontane woodland; 808– 3,597 feet (245– 1,090 meters) | April–June | Not Expected : typically occurs on gabbro and serpentine derived soils on the Pine Hill formation, which are not present in the Study Area. |
| Red Hills soaproot Chlorogalum grandiflorum | -/-/IB.2 | Scattered occurrences in the northern Sierra Nevada foothills from Placer to Tuolumne Counties | Chaparral, cismontane woodland, lower montane coniferous forest in serpentine, gabbro, or other soils; 804–3,855 feet (245–1,170 meters) | May–June | Not Expected : typically occurs on gabbro and serpentine derived soils on the Pine Hill formation, which is not present in the Study Area. |
| Brandegee's clarkia Clarkia biloba ssp. brandegeeae | -/-/1B.2 | Butte, El Dorado, Nevada, Placer, and Yuba Counties | Chaparral, cismontane woodland, often on roadcuts; 239–3,002 feet (73–915 meters) | May–July | Possible: Potential habitat present in oak woodland; historic occurrence is mapped within the city limits |
| Dwarf downingia Downingia pusilla | <i>−</i> / <i>−</i> /2.2 | Inner north Coast Ranges, southern Sacramento Valley, northern and central San Joaquin Valley | Mesic areas in valley and foothill grassland, vernal pools; below 1,460 feet (445 meters) | March–May | Possible: potential habitat in seasonal wetlands and vernal pools. Nearest occurrence ~5 miles away |
| Pine Hill flannelbush Fremontodendron decumbens | E/R/IB.2 | Known from fewer than 20 occurrences in El Dorado, Nevada (?), and Yuba (?) Counties | Rocky gabbro or serpentine soils in chaparral, cismontane woodland; 1,394 to 2,493 feet (425–760 meters) | April–July | None: No habitat or microhabitat present and Study Area is outside species' elevation range |

| Common and Scientific Names | Status Federal/ State/CNPS | Geographic Distribution/ Floristic Province Habitat Requirem | | Blooming Period | Likelihood of Occurrence in Study Area |
|--|----------------------------------|---|---|---|--|
| Stinkbells Fritillaria agrestis | -/-/4.2 | Outer north Coast Ranges, Sierra Nevada foothills, Central Valley, Central Western California | Clay, sometimes serpentine soils in chaparral, cismontane woodland, pinyon-juniper woodland, valley and foothill grassland; 33–5,102 feet (10–1,555 meters) | March–June | Possible: habitat potentially present in grassland. No serpentine present. Nearest occurrence is ~7 miles away. |
| El Dorado bedstraw Galium californicum ssp. sierra | E/R/IB.2 | Endemic to El Dorado County | Gabbro soils in chaparral, cismontane woodland, lower montane coniferous forest; 328–1,919 feet (100–585 meters) | May–June | Not Expected : typically occurs on gabbroic and serpentine derived soils on the Pine Hill formation, which are not present in the Study Area. |
| Boggs Lake hedge-hyssop Gratiola heterosepala | -/E/1B.2 | Inner north Coast Ranges, central Sierra Nevada foothills, Sacramento Valley, Modoc Plateau | Marshes and swamps along lake margins, vernal pools on clay soils; 33–7,792 feet (10–2,375 meters) | April– August | Possible: potential habitat in seasonal wetlands and vernal pools. Nearest occurrence is adjacent to the Study Area. |
| Bisbee Peak rush-rose Crocanthemum suffrutescens | -/-/3.2 | Amador, Calaveras, El Dorado, Mariposa, Sacramento and Tuolumne Counties | Chaparral openings, often on serpentine, gabbro, or lone soils; 148–2,756 feet (45–840 meters) | April– August | Not Expected: typically occurs on gabbro and serpentine derived soils on the Pine Hill formation, which are not present in the Study Area. |
| Legenere Legenere limosa | -/-/ I B. I | Sacramento Valley, north Coast Ranges, northern San Joaquin Valley and Santa Cruz Mountains | Vernal pools; below 2,887 feet (880 meters) | April–June | Possible: potential habitat in seasonal wetlands and vernal pools. Nearest occurrence is ~5 miles away. |
| Pincushion navarretia Navarretia myersii ssp. myersii | /IB.I | Amador, Placer, Merced, Sacramento, and Calaveras counties | Vernal pools; often acidic soils; 60-270 feet [20-330 meters] | April- May | Possible: potential habitat in vernal pools |
| Slender Orcutt grass Orcuttia tenuis | T/E/IB.I | Sierra Nevada and Cascade Range foothills from Siskiyou to Sacramento Counties | Vernal pools; 114–5,774 feet (35–1,760 meters) | May- September; uncommonly October | Possible: potential habitat in seasonal wetlands and vernal pools. Nearest occurrence is adjacent to the Study Area. |

| Common and Scientific Names | Status Federal/ State/CNPS | | Distribution/ Province | Habitat Requirements | Blooming Period | Likelihood of Occurrence in Study Area |
|---|----------------------------------|---|---------------------------|--|--------------------|--|
| Sacramento Orcutt grass Orcuttia viscida | E/E/IB.I | Endemic to Sacra | amento County | Vernal pools; 98–328 feet (30–100 meters) | April–July | Possible: potential habitat in seasonal wetlands and vernal pools. Historic occurrence is mapped within the city limits. |
| Layne's ragwort Packera layneae | T/R/1B.2 | Northern Sierra Nevada foothills in Butte, El Dorado, Tuolumne, and Yuba Counties | | Rocky serpentine or gabbro soils in chaparral and foothill woodland, between 656–3,281 feet (200–1,000 meters) | April– August | Not Expected: typically occurs on gabbro and serpentine derived soils on the Pine Hill formation, which are not present in the Study Area. |
| Sanford's arrowhead Sagittaria sanfordii | -/-/1B.2 | Scattered locations in Central Valley and Coast Ranges | | Freshwater marshes, sloughs, canals, and other slow-moving water habitats; below 2,132 feet (650 meters) | May– October | Possible: potential habitat present in wetlands. Nearest occurrence is adjacent to the Study Area. |
| El Dorado County mule ears Wyethia reticulata | -/-/1B.2 | Known from only El Dorado and Yuba counties | | On clay, serpentine, or gabbroic soils in chaparral, cismontane woodland, and lower montane coniferous forest; 607–2,067 feet (185–630 meters) | April– August | Not Expected: typically occurs on gabbro and serpentine derived soils on the Pine Hill formation, which is not present in the Study Area. |
| Federal E = listed as endangered under T = listed as threatened under t - = no listing. | | | R = listed as rare u | gered under the California Endan | Protection Act (| this category is no longer used for |

California Native Plant Society (CNPS)

- IB = List IB species; rare, threatened, or endangered in California and elsewhere.
- 2 = List 2 species; rare, threatened, or endangered in California but more common elsewhere.
- 3 = List 3 species: more information is needed about this plant
- 4 = List 4 species: limited distribution and on a watch list
- 0.1 = seriously endangered in California.
- 0.2 = fairly endangered in California.
- ? = population status in County uncertain

Source: California Native Plant Society, Rare Plant Program, 2017. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Accessed at http://www.rareplants.cnps.org [accessed 20 December 2017].

| Species | Status ^a Federal/Stat | Geographic Distribution | Habitat Requirements | Potential Occurrence in Study Area |
|--|-------------------------------------|--|---|--|
| Invertebrates | | | | |
| Conservancy fairy shrimp Branchinecta conservatio | E/ | Disjunct occurrences in Solano, Merced, Tehama, Ventura, Butte, and Glenn Counties | Large, deep vernal pools in annual grasslands | None : No suitable habitat present in Study Area |
| Valley elderberry longhorn beetle Desmocerus californicus dimorphus | T/ – | Streamside habitats below 3,000 feet throughout the Central Valley | Riparian and oak savanna habitats | Present : Known to occur within the Study Area. Elderberry shrubs located within the Study Area provide suitable habitat |
| Vernal pool fairy shrimp Branchinecta lynchi | T/- | Central Valley, central and south Coast Ranges from Tehama County to Santa Barbara County. Isolated populations also in Riverside County | Common in vernal pools. Also found in sandstone rock outcrop pools, and seasonal wetlands | Present : Known to occur within the Study Area. Vernal pools and seasonal wetlands located within the Study Area provide suitable habitat. |
| Vernal pool tadpole shrimp Lepidurus packardi | E/— | Shasta County south to Merced County | Vernal pools, seasonal wetlands, and ephemeral stock ponds | Possible : Vernal pools and seasonal wetlands located within the Study Area provide suitable habitat |
| Amphibians | | | | |
| California red- legged frog Rana aurora draytoni | T/SSC | Found along coast and coastal mountain ranges of California from Marin County to San Diego County and in Sierra Nevada from Tehama County to Fresno County | Permanent and semipermanent aquatic habitats, such as creeks and coldwater ponds, with emergent and submergent vegetation. May aestivate in rodent burrows or cracks during dry periods | Possible: California red-legged frogs are not known to occur within the Study Area, though they may occur in ponds and streams located within the Study Area |
| California tiger salamander Ambystoma californiense | Т/Т | Central Valley, including Sierra Nevada foothills, up to approximately 1,000 feet, and coastal region from Butte County south to northeastern San Luis Obispo County | Small ponds, lakes, or vernal pools in grasslands and oak woodlands for larvae. Rodent burrows, rock crevices, or fallen logs for cover for adults and summer dormancy | Possible: California tiger salamanders are not known to occur within the Study Area, though vernal pools and seasonal wetlands occurring within the Study Area provide suitable breeding habitat |

| Common and Scienti Names | | Status Federal/ State/CNPS | Geographic Distribution, Floristic Province | | oming Likelihood of Occurrence riod in Study Area |
|--|-------|----------------------------------|--|--|--|
| Western spadefoot Scaphiopus hammondii | -/SSC | | la foothills, Central Valley, s, coastal counties in southern | Shallow streams with riffles and seasonal wetlands such as vernal pools in annual grasslands and oak woodlands | Possible: Western spadefoots not known to occur within the Study Area, though vernal pools and seasonal wetlands occurring within the Study Area provide suitable breeding habitat |
| Fishes | | | | | |
| Delta Smelt Hypomesus transpacificus | T/E | Sacramento/ individuals m | California; occurs only in the San Joaquin River Delta; ay travel as far north as the I e in Sacramento | Sacramento/San Joaquin River Delta | Not Expected: migration would be blocked by Nimbus Dam. |
| Steelhead - Central Valley DPS Oncorhynchus mykiss [irideus population] | T/- | their tributai | and San Joaquin rivers and ries, excluding steelhead from and San Pablo bays and their | Sacramento and San Joaquin rivers and their tributaries | Possible : May occur in the American River |
| Reptiles | | | | | |
| Giant garter snake Thamnophis gigas | Т/Т | Fresno Cour | by from vicinity of Burrel in aty north to near Chico in y. Has been extirpated from of Fresno | Sloughs, canals, low-gradient streams, and freshwater marsh habitats where there is a prey base of small fish and amphibians. Also found in irrigation ditches and rice fields. Requires grassy banks and emergent vegetation for basking and areas of high ground protected from flooding during winter | None : Study Area is outside of the species' range |
| Western pond turtle Actinemys marmorata | -/SSC | Norte and Si coast to San | the Oregon border of Del skiyou Counties south along Francisco Bay, inland through Valley, and on western slope vada | Occupies ponds, marshes, rivers, streams, and irrigation canals with muddy or rocky bottoms and with watercress, cattails, water lilies, or other aquatic vegetation in woodlands, grasslands, and open forests | Present: Known to occur within the Study area. Creeks, streams, and pond occurring within the Study Area provid suitable habitat |

| Common and Scienti Names | | Status Federal/ State/CNPS | Geographic Distribution/ Floristic Province | Habitat Requirements | Bloomin Period | |
|---|-------|---|---|--|-------------------|---|
| Birds | | | | | | |
| Bald eagle Haliaeetus Ieucocephalus | FP/E | Lassen, Pluma Mendocino C Basin. Reintro Winter range except south altitudes in Si | iyou, Modoc, Trinity, Shasta, as, Butte, Tehama, Lake, and Counties and in Lake Tahoe oduced into central coast. e includes rest of California, eastern deserts, very high terra Nevada, and east of a south of Mono County | In western North America, nests a roosts in coniferous forests within mile of a lake, reservoir, stream, or ocean | l bo | resent: Recorded at Folsom Lake in oth winter and nesting season. nlikely to nest within the Study Area |
| Bank swallow Riparia riparia | FP/T | Tehama Cou along Feather in Owens Va Cascade Rang northern Sisk | Sacramento River from nty to Sacramento County, and lower American Rivers, lley, and in plains east of the ge in Modoc, Lassen, and kiyou Counties. Small near coast from San Francisco County | Nests in bluffs or banks, usually adj to water, where soil consists of sar sandy loam | | _ |
| California black rail Laterallus jamaicensis coturniculus | FP/T | and eastward Sacramento a Small populat | esident in San Francisco Bay I through Delta into and San Joaquin Counties. cions in Marin, Santa Cruz, spo, Orange, Riverside, and nties | Tidal salt marshes associated with growth of pickleweed. Also occurs brackish marshes or freshwater mat low elevations | in St | one: No suitable habitat present in udy Area |
| Double-crested cormorant Phalacrocorax auratus | FP//- | - Very adaptab reservoirs; ba | le; found along coast, inland ays, rivers | Nests colonially in large trees near over water, on sea cliffs, or on the ground on islands | | ossible: May occur occasionally in udy Area; unlikely to nest there. |
| Great blue heron Ardea herodias | FP//- | - Very adaptab reservoirs; ba | le; found along coast, inland ays, rivers | Nests colonially in large trees near over water, on sea cliffs, or on the ground on islands | | ossible: May occur occasionally in udy Area; unlikely to nest there. |

| Common and Scient | | Status Federal/ State/CNPS | Geographic Distribution, Floristic Province | Hanifat Redillrements | oming Likelihood of Occurrence riod in Study Area |
|--|--------|--|---|--|---|
| Golden eagle Aquila chrysaetos | FP/FP | Foothills and California; u | I mountains throughout ncommon non-breeding wlands such as the Central | Nest on cliffs and escarpments or in tall trees overlooking open country; forages in annual grasslands, chaparral, and oak woodlands with plentiful medium- and large-sized mammals | • |
| Grasshopper sparrow Ammodramus savannarum | FP/SSC | | ident and breeder in foothills s west of the Cascade-Sierra t | Occurs in dry, dense grasslands, especially those with a variety of grasses and tall forbs and scattered shrubs for singing perches. Nests in slight depressions in dense grasslands | Possible: Grassland areas located within the Study Area provide suitable nesting habitat |
| Purple martin Progne subis | FP/SSC | Obispo Cou Nevada, and ranges. Abse except in Sa | intains south to San Luis nty, west slope of the Sierra northern Sierra and Cascade ent from the Central Valley cramento. Isolated, local in southern California. | Nests in abandoned woodpecker holes in oaks, cottonwoods, and other deciduous trees in a variety of wooded and riparian habitats. Also nests in vertical drainage holes under elevated roadways and road bridges. | Possible: Vertical drainage holes located under road bridges within the Study Area provide suitable nesting habitat |
| Swainson's hawk Buteo swainsoni | FP/T | Valleys, Klar Highest nest | mento and San Joaquin nath Basin, and Butte Valley. ing densities occur near Davis nd in Yolo County | Nests in oaks or cottonwoods in or near riparian habitats. Forages in grasslands, irrigated pastures, and grain fields | Present: Known to nest within the Study Area. Large trees occurring within the Study Area provide suitable nesting habitat and annual grasslands provide foraging habitat |
| Tricolored blackbird Agelaius tricolor | FP/SSC | from Butte (Breeds at so Marin Coun and at scatte Sonoma, and | resident in the Central Valley County to Kern County. attered coastal locations from ty south to San Diego County ered locations in Lake, d Solano Counties. Rare nester Modoc, and Lassen Counties | Nests in dense colonies in emergent marsh vegetation, such as tules and cattails, or upland sites with blackberries, nettles, thistles, and grainfields. Habitat must be large enough to support 50 pairs. Probably requires water at or near the nesting colony | Present: Known to nest within the Study Area. Cattails and large blackberry briars occurring within the Study Area provide suitable nesting habitat; open grasslands provide foraging habitat |
| Western burrowing owl Athene cunicularia | FP/SSC | Lowlands th Central Valle | roughout California, including ey, northeastern plateau, n deserts, and coastal areas. | Level, open, dry, heavily grazed or low- stature grassland or desert vegetation with available burrows | Present: Known to nest in the Study Area. Burrows in annual grassland and ruderal areas of the Study Area provide suitable nesting habitat |

| Common and Scientific Names | | Status Federal/ State/CNPS | Geographic Distribution, Floristic Province | Habitat Requirements | Bloom | 8 | of Occurrence dy Area |
|---|---|---|---|--|-----------------------|---|---|
| White-tailed kite Elanus leucurus | FP/FP | head of Sacra coastal valley | mento Valley south, including | Low foothills or valley areas with voor live oaks, riparian areas, and mannear open grasslands for foraging | rshes | Present: Known to no Study Area. Large tree within the Study Area nesting habitat and and provide foraging habita | es occurring provide suitable nual grasslands |
| Mammals | | | | | | | |
| American badger Taxidea taxius | -/SSC | except in the Suitable habit herbaceous, s | hout most of California northern North Coast area. at is characterized by shrub, and open stages of with dry, friable soils | Occurs in most habitats in Californ except alpine and montane habitats burrows in friable soils for cover; frequently uses old burrows | s; digs | Possible : Larger grass occurring within the St suitable habitat | |
| Pallid bat Antrozous pallidus | -/SSC | high Sierra I to Kern Co | oughout California except the Nevada from Shasta County unty and the northwest urily at lower and mid- | Occurs in a variety of habitats from desert to coniferous forest; most closely associated with oak, yellow redwood, and giant sequoia habitat northern California and oak woodle grassland, and desert scrub in south California | pine, s in and, | Possible : Buildings an bridges occurring with provide suitable roosti | in the Study Area |
| T = listed as threaten FP = protected under State E = listed as endange T = listed as threaten | ed under the Feder red under ed under nder Califo | al Migratory Bird Tre California Endangere CESA. ornia Fish and Game | aty Act ad Species Act (CESA). | | | | |