
**Appendix E Sensitive Species Occurring within the
Project Area**

TABLE E-1

SENSATIVE SPECIES POTENTIALLY OCCURRING WITHIN THE PROJECT AREA

Common Name	Scientific Name	Status ² Fed//CA/CNPS	Habitat and Seasonal Distribution in California	Potential for occurrence in Site								
				1	2	3	4	5	6	7	8	9
Wildlife												
Amphibians												
Arroyo toad	<i>Bufo microscaphus californicus</i>	Fed: Endangered CA: SC	Near washes or intermittent streams with sandy banks, willows, and cottonwoods. Known to occur in San Juan Creek.	L	M	L	L	L	A	A	L	A
Southwestern pond turtle	<i>Clemmys marmorata pallida</i>	Fed: SC CA: SC	Permanent or nearly permanent water in a wide variety of habitat types; marshes, sloughs, ponds, slow-moving streams; requires basking sites such as partially submerged logs, rocks, or open mud banks. Most Pacific slope drainages below 4,500 ft. elevation.	A	A	A	A	A	A	A	A	A
Western spadefoot toad	<i>Scaphiopus hammondi intermontanus</i>	Fed: None CA: SC	Coastal sage scrub, chaparral, and grasslands habitats, but is most common in grasslands with vernal pools or mixed grassland/coastal sage scrub areas. Known from San Juan Creek area.	M	H	L	M	M	L	A	M	M
Coast Range newt	<i>Taricha torosa torosa</i>	Fed: None CA: SC	Coastal drainages from Mendocino County to San Diego county. Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams. Known from Bell Canyon.	L	L	L	L	L	A	A	L	L
Fish												
Tidewater goby	<i>Eucyclogobius newberryi</i>	Fed: Endangered CA: None	Brackish water habitats along the Calif coast from Agua Hedionda lagoon, San Diego Co. To the mouth of the Smith River. Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water & high oxygen levels. Known to occur on Aliso Creek	A	A	A	A	A	A	A	A	A
Arroyo chub	<i>Gila orcutti</i>	Fed: SC CA: SC	Slow-moving stream sections with mud or sandy bottoms in coastal streams. Known to occur in San Juan Creek, Oso Creek, Bell Canyon, and Arroyo Trabuco,	A	A	A	A	A	A	A	A	A
Santa Ana speckled dace	<i>Rhinichthys osculus</i> ssp. 3	Fed: None CA: SC	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles river system. Requires permanent flowing streams with summer water temps of 17-20 c. Usually inhabit shallow cobble and gravel riffles. Known from Santiago Creek.	A	A	A	A	A	A	A	A	A
Invertebrates												
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	Fed: Endangered CA: None	This species is endemic to San Diego and Orange County mesas. Found only within vernal pools.	L	L	L	L	L	A	A	L	L

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Riverside Fairy Shrimp	<i>Streptocephalus woottoni</i>	Fed: Endangered CA: Endangered	This species is endemic Riverside San Diego and Orange Counties. Found within vernal pools.	M	H	L	L	L	A	A	L	L
Quino Checkerspot	<i>Euphydryas editha quino</i>	Fed: Endangered CA: None	Inhabits openings on clay soils within or in the vicinity of shrublands, grasslands, meadows, vernal pools, and lake margins. Its presence is closely tied to its larval host plant, dwarf plantain (<i>Plantago erecta</i>) or owl's clover (<i>Orthocarpus purpurescens</i>)	L	L	L	L	L	A	A	L	L
Monarch butterfly	<i>Danaus plexippus</i>	Fed: None CA: Wintering sites protected	A typical wintering site for the monarch butterfly is a grove of trees within a mile of the ocean in creek drainages. Eucalyptus trees are used as wintering sites 90 percent of the time.	L	A	L	A	A	A	L	A	A

Reptiles

Silvery Legless Lizard	<i>Anniella pulchra pulchra</i>	Fed: None CA: SC	Loose soils (san, loam, humis) in coastal dune, coastal sage scrub, woodlands, and riparian habitats with abundant leaf litter.	L	L	L	A	L	A	A	A	L
Orange-throated whiptail	<i>Aspidoscelis hyperythra</i>	Fed: None CA: SC	Inhabits low-elevation coastal scrub, chaparral, and valley hardwood habitats. Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food (termites).	H	P	H	L	H	H	L	L	L
Coastal western whiptail	<i>Aspidoscelis tigris stejnegeri</i>	Fed: None CA: SC	Found in deserts & semiarid areas with sparse vegetation and open areas. also found in woodland & riparian areas. Ground may be firm soil, sandy, or rocky.	L	L	L	A	L	M	A	A	L
Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	Fed: None CA: SC	Associated with chaparral, woodland, grassland, and desert communities. Prefers rocky areas with dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects for shelter.	L	M	L	A	L	M	A	A	L
San Diego mountain kingsnake	<i>Lampropeltis zonata pulchra</i>	Fed: None CA: SC	Restricted to the San Gabriel and San Jacinto mountains of southern California. Inhabits a variety of habitats, including valley-foothill hardwood, coniferous, chaparral, riparian, and wet meadows.	L	L	L	A	L	A	A	A	L
San Diego horned lizard	<i>Phrynosoma coronatum blainvillei</i>	Fed: SC CA: SC	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate conditions. Prefers friable, rocky, or shallow sandy soils where adequate prey exists (native harvester ants)	H	H	H	L	H	M	L	L	L
Coast patch-nosed snake	<i>Salvadora hexalepis virgultea</i>	Fed: None CA: SC	A broad generalist in its habitat requirements. It seems to make use of whatever cover is available and thrives in most environments. It occupies desert scrub, coastal chaparral, washes, sandy flats, and rocky areas.	M	H	M	L	M	M	M	LL	M
Two-striped garter snake	<i>Thamnophis hammondi</i>	Fed: None CA: SC	In or near permanent fresh water, often along streams with rocky beds and riparian growth from sea to about 7,000'.Known from Arroyo Trabucco, Haring Canyon, and San Juan Creek.	L	M	M	A	A	A	A	A	A

Birds

Cooper's hawk (nesting)	<i>Accipiter cooperii</i>	Fed: None CA: SC	Inhabits open, interrupted, or marginal woodlands. Nest sites are mainly in riparian growths of deciduous trees.	H	O	O	A	M	O	L	A	L
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Sharp-shinned hawk	<i>Accipiter striatus</i>	Fed: None CA: SC	Nests in coniferous forests, ponderosa pine, black oak, riparian deciduous. Mixed conifer, Jeffery pine; winters in lowland woodlands and other habitats common in Southern California.	M	M	M	L	A	M	L	A	L
Tricolored blackbird	<i>Agelaius tricolor</i>	Fed: SC CA: SC	A colonial nester in freshwater marshes and along streams. Preferred nesting habitat is dense bulrush and cattails (National Geographic Society, 1983), although nesting can occur in blackberry thickets, willows, mustard, thistles, nettles, and grasses (Beedy et al., 1991). Foraging occurs in wet meadows, rice fields, and rangeland.	L	L	L	A	L	L	L	A	L
Southern California rufous-crowned sparrow	<i>Aimophila ruficeps canescens</i>	Fed: None CA: SC	Resident in southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches	H	O	H	A	H	H	A	L	H
Long-eared owl (nesting)	<i>Asio otus</i>	Fed: None CA: SC	Occurs in deciduous and evergreen forests; wooded parks, orchards and farm woodlands. Favored habitat includes dense trees for nesting and roosting adjacent to open country for hunting.	M	M	M	L	L	L	A	A	A
Burrowing owl	<i>Athene cucularia</i>	Fed: SC CA: SC	Open, dry annual or perennial grasslands, desert, and scrublands with low-growing vegetation. Nests in mammal burrows, most notably, California ground squirrel.	M	L	M	L	M	L	L	L	L
Golden eagle	<i>Aquila chrysaetos</i>	Fed: None CA: FP	Open hills with grassland, open scrub, adequate prey base, large trees or cliffs for nesting.	L	L	L	A	L	A	A	A	A
Ferruginous hawk	<i>Buteo regalis</i>	Fed: SC CA: SC	Winters in open grasslands, sagebrush flats, desert scrub, low foothills & fringes of pinyon-juniper habitats. Mostly eats lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	H	H	H	A	H	L	A	A	L
Swainson's hawk	<i>Buteo swainsoni</i>	Fed: SC CA: Threatened	Open grasslands, scrublands, croplands. Rare migrant to southern California,.	L	L	L	L	L	L	L	L	L
Costa's Hummingbird	<i>Calypte costae</i>	Fed: SC CA: none	Occurs in desert wash, edges of desert riparian and valley riparian, coastal scrub, desert scrub, lower-elevation chaparral, and palm oasis.	M	M	M	L	M	L	L	A	L
Cactus wren	<i>Campylorhynchus brunneicapillus cousei</i>	Fed: SC CA: SC	The coastal cactus wren is an obligate, non-migratory resident of the coastal sage scrub plant community It is closely associated with three species of cacti and occurs almost exclusively in thickets of cholla (<i>Opuntia prolifera</i>) and prickly pear.	O	H	H	A	H	O	L	A	L
Northern harrier (nesting)	<i>Circus cyaneus</i>	Fed: None CA: SC	Occurs from annual grassland up to lodgepole pine and alpine meadow habitats, as high as 3000 m (10,000 ft). Mostly found in flat, or hummocky, open areas of tall, dense grasses, moist or dry shrubs, and edges for nesting, cover, and feeding. Nests in coastal salt & fresh-water marsh. nest & forage in grasslands.	M	M	M	A	L	M	A	A	A
Yellow warbler	<i>Dendroica petechia</i>	Fed: None CA: SC	Nest in lowland and foothill riparian woodlands dominated by cottonwoods, alders, and willows.	L	L	L	A	L	A	A	A	A

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White-tailed kite	<i>Elanus leucurus</i>	Fed: SC CA: FP	Rolling foothills, valley margins with scattered oaks, river bottomlands, and open country in South America and southern North America. Nests in oak and sycamore riparian woodland	L	L	L	A	L	M	A	A	L
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	Fed: Endangered CA: Endangered	Inhabits extensive thickets of low, dense willows on the edge of rivers, wet meadows, ponds, or backwaters. Known to occur in Jan Juan Creek.	L	L	L	A	A	A	A	A	A
California horned lark	<i>Eremophila alpestris actia</i>	Fed: None CA: SC	A common to abundant resident in a variety of open habitats, usually where trees and large shrubs are absent such as row-crop fields	M	O	M	L	L	M	L	L	L
Prairie falcon (nesting)	<i>Falco mexicanus</i> (nesting)	Fed: None CA: SC	Found in open, dry countryside. Grasslands, canyon lands, cultivated prairies, deserts, foothills, and dry mountain valleys are all utilized. Typically, nest on a cliff face using a ledge, cavity, crevice, or an abandoned nest of eagles, hawks, or raven	L	L	L	A	L	A	A	A	A
Yellow-breasted chat	<i>Icteria virens</i>	Fed: None CA: SC	Occurs in woodland edges, neglected pastures, thick shrubbery, briar thickets, willow thickets and shrubby wet meadows.	M	M	M	A	M	A	A	A	A
California gull	<i>Larus californicus</i>	Fed: None CA: SC	A fairly common nester at alkali and freshwater lacustrine habitats east of the Sierra Nevada and Cascades, and an abundant visitor to coastal and interior lowlands in non-breeding season	M	L	M	L	A	A	A	L	A
Osprey	<i>Pandion haliaetus</i>	Fed: None CA: SC	Large waters supporting fish; usually near forest habitats, but widely observed along coastal areas in suitable habitat.	A	A	A	M	A	A	A	M	A
Belding's Savannah Sparrow	<i>Passerculus sandwichensis ssp. beldingi</i>	Fed: None CA: Endangered	This sparrow occurs in coastal areas of southern California and Baja California where it is a year-round resident of coastal salt marshes and associated mudflats and salt flats. Dense stands of pickleweed in the upper region of salt marshes that flood only during extremely high spring tides are its preferred nesting habitat.	A	A	A	A	A	A	A	A	A
Nuttall's Woodpecker	<i>Picoides nuttallii</i>	Fed: None CA: SA	This woodpecker occurs from northwestern Baja California to northern California. It is a year round resident of oak, pine, and riparian woodlands.						O			
White-faced ibis	<i>Plegadis chihi</i>	Fed: SC CA: SC	An uncommon summer resident in sections of southern California. It prefers to feed in fresh emergent wetland, shallow lacustrine waters, and muddy ground of wet meadows and irrigated, or flooded, pastures and croplands. Nests in dense, fresh emergent wetland.	L	L	L	A	A	A	A	A	A
Coastal California gnatcatcher	<i>Poliptila californica californica</i>	Fed: Threatened CA: SC	Occurs in coastal sage scrub vegetation on mesas, arid hillsides, and in washes and nests almost exclusively in California sagebrush	O	O	H	A	O	O	A	A	M
Allen's hummingbird	<i>Selasphorus sassin</i>	Fed: SC CA: None	In the region, breeds primarily in riparian and urban habitats	M	M	M	L	M	L	L	L	L

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Least Bell's vireo	<i>Vireo bellii pusillus</i>	Fed: Endangered CA: Endangered	Nesting) summer resident of southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, baccharis, and mesquite.	H	M	M	A	L	A	A	A	A

Mammals

Pallid bat	<i>Antrozous pallidus</i>	Fed: None CA: SC	Open, dry habitats with rocky outcrops, cliffs, caverns, and crevices for roosting, most commonly in deserts, grasslands, and shrublands, in addition to woodlands & forest	M	M	M	A	L	M	A	A	A
Northwestern San Diego pocket mouse	<i>Chaetodipus fallax fallax</i>	Fed: None CA: SC	Occurs in chaparral, coastal sage scrub (including Riversidean and Diegan coastal sage scrub), desert scrub, grassland, juniper woodland and scrub, and Riversidean alluvial fan sage scrub.	L	L	L	A	L	M	A	A	L
Dulzura (=California) Pocket Mouse	<i>Chaetodipus californicus femoralis</i>	Fed: None CA: SC	Occurs in a variety of habitats including coastal scrub, chaparral & grasslands	L	L	L	A	L	M	A	A	L
California mastiff bat	<i>Eumops perotis californicus</i>	Fed: SC CA: SC	Breeds in rugged, rocky canyons and forages in a variety of habitats. Roosts in crevices in cliff faces, high buildings, trees & tunnels.	L	L	L	A	L	M	A	A	A
San Diego desert woodrat	<i>Neotoma lepida intermedia</i>	Fed: None CA: SC	Occurs in moderate to dense canopies of coastal sage scrub, especially in rock outcrops, rocky cliffs, and slopes. Occurs in southern California from San Diego County to San Luis Obispo County.	H	H	H	A	H	H	A	A	L

Plants

Chaparral sand verba	<i>Abronia villosa</i> var. <i>aurita</i>	Fed: None CA: None CNPS: List 1B	Found on the coastal side of the southern California mountains in chaparral and coastal sage scrub plant communities in areas of full sun, and sandy soil. From 80 to 1600 meters in elevation. Blooming period: January - August	L	L	L	A	L	A	A	A	L
Coulter's saltbush	<i>Atriplex coulteri</i>	Fed: None CA: None CNPS: List 1B	Perennial herb or subshrub; alkaline or clay soils, open areas; coastal bluff scrub, coastal sage scrub, valley foothill grassland from 3 to 460 meters in elevation. Blooming period: March - October	A	A	A	A	A	A	A	A	A
South Coast saltscale	<i>Atriplex pacifica</i>	Fed: None CA: None CNPS: List 1B	Perennial herb that grows in xeric, often mildly disturbed locales within coastal bluff scrub, coastal scrub, and playas. From 1 to 140 meters in elevation. Blooming period: March - October	L	L	L	A	L	A	A	A	L
Davidson's saltscale	<i>Atriplex serenana davidsonii</i>	Fed: None CA: None CNPS: List 1B	Found association with the alkali vernal pools, alkali annual grassland, alkali playa, and alkali scrub components of alkali vernal plains. From 10 to 200 meters in elevation. Blooming period: April-October.	A	A	A	A	A	A	A	A	A

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Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	Fed: Threatened CA: Endangered CNPS: List 1B	Typically occurs on gentle hillsides, valleys, and floodplains in semi-alkaline mudflats, vernal pools, mesic southern needlegrass grassland, mixed native-nonnative grassland and alkali grassland plant communities in association with clay, loamy sand, or alkaline silty-clay soils. From 35 to 855 meters in elevation. Blooming period March - June	M	H	M	A	L	A	A	A	A
Intermediate mariposa lily	<i>Calochortus weedii</i> var. <i>intermedius</i>	Fed: None CA: None CNPS: List 1B	Perennial herb; dry rocky open slopes and hills; chaparral, coastal sage scrub, valley & foothill grassland from 590 to 2,800 feet in elevation. Blooming period May-July	H	H	H	A	H	L	A	A	L
Southern tarplant	<i>Centromadia parryi</i> ssp. <i>australis</i>	Fed: None CA: None CNPS: List 1B	Found in the margins of marshes and swamps, in vernal mesic grassland areas and near vernal pools, below 1300 ft. elev. Known from Los Angeles, Orange, Santa Barbara, San Diego, and Ventura Counties Baja California. Blooming period June-November	M	M	L	L	L	L	L	L	L
Orcutt's pincushion	<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	Fed: None CA: None CNPS: List 1B	Coastal bluff scrub, coastal dunes. Prefers sandy sites from 3-100 meters in elevation Blooming period January - August	A	A	A	A	A	A	A	A	A
Summer holly	<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>	Fed: None CA: None CNPS: List 1B	Found in chaparral/shrub habitats in southern California and Baja. Found from 30-550 meters in elevation. Blooming period April - June	L	L	L	A	L	A	A	A	A
Santa Monica Mountains dudleya	<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>	Fed: Threatened CA: None CNPS: List 1B	In canyons on sedimentary conglomerates; primarily North-facing slopes from 210-500 meters in elevation. Known from Santiago Canyon. Blooming period March - June	A	M	L	A	L	A	A	A	A
Many-stemmed dudleya	<i>Dudleya multicaulis</i>	Fed: None CA: None CNPS: List 1B	Found in chaparral, coastal scrub, valley and foothill grassland. Endemic to Southern California. Generally found in heavy, often clayey soils or grassy slopes from 0-790 meters in elevation. Blooming period April - June	M	M	M	A	L	L	A	A	A
Laguna Beach dudleya	<i>Dudleya stolonifera</i>	Fed: Threatened CA: Threatened CNPS: List 1B	Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland. Endemic to Orange County. In thin soil on north-facing sandstone cliffs from 10-260 meters in elevation. Known from Laguna Canyon area. Blooming period May - June	A	A	A	A	A	A	A	A	A
Sticky dudleya	<i>Dudleya viscida</i>	Fed: None CA: None CNPS: List 1B	Coastal scrub, coastal bluff scrub, chaparral. Endemic to southern California. Prefers north and south-facing cliffs and banks from 10-550 meters in elevation. Known from San Juan Canyon. Blooming period May - June	A	L	L	A	A	A	A	A	A

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Cliff spurge	<i>Euphorbia misera</i>	Fed: None CA: None CNPS: List 2	Coastal bluff scrub, coastal scrub. In southern California, Baja, and on Guadalupe Island. Prefers rocky sites from 10-500 meters in elevation. Known from South Laguna, and Corona Del Mar area. Blooming period December - April	A	A	A	A	A	A	A	A	A	A
Low Angeles sunflower	<i>Helianthus nuttallii ssp. parishii</i>	Fed: None CA: None CNPS: List 1A	Marshes and swamps (coastal salt and freshwater). Historical from southern California. From 5 to 1675 meters in elevation. Blooming period August-October	A	L	L	A	A	A	A	A	A	A
Mesa horkelia	<i>Horkelia cuneata ssp. puberula</i>	Fed: None CA: None CNPS: List 1B	Chaparral, cismontane woodland, coastal scrub. Prefers sandy or gravelly sites from 70-810 meters in elevation. Blooming period February - September	L	L	L	A	L	A	A	A	A	L
Coulter's goldfields	<i>Lastenia glabrata ssp. coulteri</i>	Fed: None CA: None CNPS: List 1B	Alkaline soils in playas, sinks, marshes, and grasslands from 1 to 1220 meters in elevation. Blooming period February -June	L	L	L	A	A	A	A	A	A	A
Heart-leaved pitcher sage	<i>Lepechinia cardiophylla</i>	Fed: None CA: None CNPS: List 1B	Closed-cone coniferous forest, chaparral, cismontane woodland from 550-1370m in elevation. Blooming period April-June	A	L	A	A	A	A	A	A	A	A
Robinson's pepper-grass	<i>Lepidium virginicum var. robinsonii</i>	Fed: None CA: None CNPS: List 1B	Annual herb. Occurs in coastal scrub and chaparral on dry soils. Up to 3,100 feet in elevation. Blooming period: January - July	M	M	M	L	M	A	A	A	A	L
Felt-leaved monardella	<i>Monardella hypoleuca ssp. lanata</i>	Fed: None CA: None CNPS: List 1B	Chaparral, cismontane woodland. In California, known only from San Diego and Orange counties. Occurs in understory in mixed chaparral, chamise chaparral, and southern oak woodland; sandy soil from 300-1575 meters in elevation. Blooming period: June - August	M	M	M	A	A	A	A	A	A	A
Hall's monardella	<i>Monardella macrantha ssp. hallii</i>	Fed: None CA: None CNPS: List 1B	Broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley & foothill grassland. Prefers dry slopes and ridges in openings within the above communities from 730-2195 meters in elevation. Blooming period: June - August.	A	L	A	A	A	A	A	A	A	A
Mud nama	<i>Nama stenocarpum</i>	Fed: None CA: None CNPS: List 2	Grows on the muddy embankments of ponds and lakes. It is also reported to utilize river embankments. Generally occurs from 5 to 500 meters in elevation. Blooming period: January-July	A	L	L	A	A	A	A	A	A	A
Coastal woolly heads	<i>Nemacaulis denudata var. denudata</i>	Fed: None CA: None CNPS: List 1B	Found in well developed coastal sand dunes along the beaches. The back dunes, in mildly protected locales, seem to be preferred. Generally occurs from 0 to 100 meters in elevation. Blooming period: April-September	A	A	A	A	A	A	A	A	A	A

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Chaparral nolina	<i>Nolina cismontana</i>	Fed: None CA: None CNPS: List 1B	Chaparral, coastal scrub. Primarily found on sandstone and shale substrates from 140-1275 meters in elevation. Blooming period March - July.	A	L	L	A	A	A	A	A	A	A
Santiago Peak phacelia	<i>Phacelia suaveolens</i> ssp. <i>keckii</i>	Fed: None CA: None CNPS: List 1B	Closed-cone coniferous forest, chaparral. Known only from Orange and Riverside counties. Prefers open areas, sometimes along creeks from 545-1600 in elevation. Blooming period May - June	A	L	A	A	A	A	A	A	A	A
Nuttall's scrub oak	<i>Quercus dumosa</i>	Fed: None CA: None CNPS: List 1B	Closed-cone coniferous forest, chaparral, coastal scrub. More common scrub oak now. Generally on sandy soils near the coast; sometimes on clay loam from 15-400 meters in elevation. Blooming period: February -April	L	L	L	A	L	A	A	A	A	A
San Miguel savory	<i>Satureja chandleri</i>	Fed: None CA: None CNPS: List 1B	Chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland. Prefers rocky, gabbroic or metavolcanic substrate from 120-1005 meters in elevation. Blooming period March-June	A	L	L	A	A	A	A	A	A	A
Rayless ragwort	<i>Senecio aphanactis</i>	Fed: None CA: None CNPS: List 2	Coastal scrub, cismontane woodland and drying alkaline flats. 20-575 M. Blooming period: January -April	L	L	L	A	L	A	A	A	A	A
Salt-spring checkerbloom	<i>Sidalcea neomexicana</i>	Fed: None CA: None CNPS: List 1B	Perennial herb. Occurs in coastal scrub, chaparral, lower montane coniferous forest, brackish marshes, mohavean desert scrub, and playas on alkaline, mesic soils from 15 to 1530 meters in elevation. Blooming period March-June	L	L	L	A	L	A	A	A	A	A
Estuary seablite	<i>Suaeda esteroa</i>	Fed: None CA: None CNPS: List 1B	Grows within the periphery of coastal salt marsh. Soils at such locales are usually mapped as tidal flats from 0 to 5 meters in elevation. Blooming season: May-January.	A	A	A	A	A	A	A	A	A	A
Crownbeard	<i>Verbesina dissita</i>	Fed: None CA: None CNPS: List 1B	Found 90% in southern maritime chaparral and 10% in coastal sage scrub. In California, known only from Orange County. Prefers steep, rocky, primarily north-facing slopes within 1.5 miles of the ocean, in gravelly soils from 45-210 meters in elevation. Blooming period March-June	A	L	A	A	A	A	A	A	A	A

CDFG Sensitive Habitats

Canyon Live Oak Ravine Forest	CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A	A
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TABLE E-1 SENSITIVE SPECIES POTENTIALLY OCCURRING WITHIN THE PROJECT AREA

Common Name	Scientific Name	Status ² Fed//CA/CNPS	Habitat and Seasonal Distribution in California	Potential for occurrence in Site									
				1	2	3	4	5	6	7	8	9	
Southern California Arroyo chub/Santa Ana sucker stream.		CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A
Southern Coast live oak riparian forest		CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A
Southern Coastal Salt Marsh		CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A
Southern cottonwood willow riparian forest		CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A
Southern Mixed Riparian Forest		CDFG Sensitive	N/A	A	O	O	A	A	A	A	A	A	A
Southern Riparian Scrub		CDFG Sensitive	N/A	O	O	A	A	A	A	A	A	A	A
Southern Sycamore Alder Riparian Woodland		CDFG Sensitive	N/A	A	A	A	A	A	A	A	A	A	A
Southern willow scrub		CDFG Sensitive	N/A	O	A	O	A	O	A	A	A	A	A
Valley Needlegrass Grassland		CDFG Sensitive	N/A	O	O	A	A	A	A	A	A	A	A

Federal (FED)

- FE = Federally listed; Endangered
- FT = Federally listed, Threatened
- SC = Federal Species of Concern; not an active term, and is provided for informational purposes only.
- FPE = Federally Proposed for Listing as Endangered
- FPT = Federally Proposed for Listing as Threatened
- FC = Federal candidate species (former Category 1 candidates)

State

- ST = State listed; Threatened
- SE = State listed; Endangered
- FP = Fully protected under the California Endangered Species Act
- SA = State Special Animal
- SC = California Species of Special Concern
- * --Taxa that are biologically rare, very restricted in distribution, declining throughout their range, or at a critical stage in their life cycle when residing in California.

California Native Plant Society (CNPS) designations analyzed::

- List 1A: Plants presumed extinct in California.
- List 1B: Plants rare and endangered in California and throughout their range.
- List 2: Plants rare, threatened or endangered in California but more common elsewhere in their range.

TABLE E-1 SENSITIVE SPECIES POTENTIALLY OCCURRING WITHIN THE PROJECT AREA

Common Name	Scientific Name	Status ² Fed//CA/CNPS	Habitat and Seasonal Distribution in California	Potential for occurrence in Site								
				1	2	3	4	5	6	7	8	9
Potential For Occurrence Methodology												
Absent (A): Species was not observed during focused surveys conducted at an appropriate time of year and/or day for identification of the species or the species is restricted to habitats that do not occur within the project site.												
Low Potential for Occurrence (L): No present or historical records cite the species' occurrence in or near the site, and the on-site habitat(s) needed to support the species are of poor quality.												
Moderate Potential for Occurrence (M): A historical record exists within the immediate vicinity of the site (approximately 5 miles) and the habitat requirements associated with the species occur within the site and are of sufficient size and quality as to support the species												
High Potential for Occurrence (H): A historical records cites the species in a site or in its immediate vicinity (approximately 1 mile) and the habitats strongly associated with that species occur within the site.												
Species Present (O): The species was observed within the site.												
Source CNDDDB 2005												