

Appendix E

Biological Resources

Appendix E-1

Special-Status Plant Species PTO

APPENDIX E-1
Special-Status Plant Species Potential to Occur within the Study Area

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena	None/None/1B.1	Chaparral, Coastal scrub, Desert dunes; sandy/annual herb/(Jan)Mar–Sep/245–5,245	Low potential to occur. There is minimal coastal sage scrub within project X-086 that can potentially provide suitable habitat for this species and the nearest CNDDDB occurrence is approximately 1 mile north from this project area. However, the coastal scrub found is likely ornamental landscaping using native vegetation and therefore the soil has been disturbed.
<i>Aphanisma blitoides</i>	aphanisma	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub; sandy or gravelly/annual herb/Feb–June/0–1,000	Low potential to occur. There is minimal coastal sage scrub within a small portion of project X-086; However this seems to be ornamental landscaping using native vegetation where the soil has been disturbed and likely not suitable for this species. Additionally, the nearest documented CNDDDB occurrence is over 12 miles from the area (CDFW 2020).
<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; lake margins, alkaline/annual herb/May–Oct/195–2,785	Not expected to occur. The project areas associated with the Facilities Master Plan are in mostly developed areas and lack any meadows, playas or lake margins.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	Ventura marsh milk-vetch	FE/SE/1B.1	Coastal dunes, Coastal scrub, Marshes and swamps (edges, coastal salt or brackish)/perennial herb/(June)Aug–Oct/0–115	Not expected to occur. There is minimal coastal sage scrub within a small portion of project X-086; However this seems to be ornamental landscaping using native vegetation where the soil has been disturbed and likely not suitable habitat for this species. Additionally, there is only one known CNDDDB occurrence within Orange County, CA.
<i>Atriplex coulteri</i>	Coulter's saltbush	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; alkaline or clay/perennial herb/Mar–Oct/5–1,505	Low potential to occur. There are no coastal bluffs or coastal sand dunes to support this species. Additionally, the minimal coastal scrub within project X-086 is landscaped with disturbed soils.
<i>Atriplex pacifica</i>	South Coast saltscale	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/annual herb/Mar–Oct/0–460	Low potential to occur. The project areas associated with the OCSD facilities master plan lack coastal bluffs, dunes, and playas. There is minimal coastal scrub present within project X-086, however the soils have been previously disturbed due to it likely being landscaped using native vegetation.
<i>Atriplex parishii</i>	Parish's brittlescale	None/None/1B.1	Chenopod scrub, Playas, Vernal pools; alkaline/annual herb/June–Oct/80–6,230	Not expected to occur. Suitable habitat such as chenopod scrub, playas and vernal pools are absent within the project areas.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Atriplex serenana</i> var. <i>davidsonii</i>	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; alkaline/annual herb/Apr–Oct/30–655	Low potential to occur. There is minimal coastal scrub in project X-086, however the soils have been previously disturbed due to it likely being landscaped using native vegetation.
<i>Calochortus weedii</i> var. <i>intermedius</i>	intermediate mariposa lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; rocky, calcareous/perennial bulbiferous herb/May–July/340–2,805	Low potential to occur. There is minimal coastal scrub in project X-086, however the soils have been previously disturbed due to it likely being landscaped using native vegetation.
<i>Calystegia felix</i>	lucky morning-glory	None/None/1B.1	Meadows and seeps (sometimes alkaline), Riparian scrub (alluvial); Historically associated with wetland and marshy places, but possibly in drier situations as well. Possibly silty loam and alkaline/annual rhizomatous herb/Mar–Sep/95–705	Low potential to occur. Project X-066 has riparian habitat that may be suitable for this species to occur. However, this area is disturbed with surrounding development. Additionally, there are CNDDB occurrences within the Orange County area.
<i>Camissoniopsis lewisii</i>	Lewis' evening-primrose	None/None/3	Coastal bluff scrub, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland; sandy or clay/annual herb/Mar–May(June)/0–985	Not expected to occur. There are no coastal bluffs, cismontane woodland, coastal dunes or grasslands within the project areas. The project X-086 has minimal coastal scrub that can potentially be suitable for this species. However, the soil has been previously disturbed from the landscaping using native vegetation.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Centromadia parryi</i> <i>ssp. australis</i>	southern tarplant	None/None/1B.1	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools/annual herb/May–Nov/0–1,570	Low potential to occur. There have been multiple occurrences near project 5-68 at the adjacent coastal bluffs outside of the project boundaries. However, there is no suitable natural habitat (i.e marshes, swamps grasslands, or vernal pools) within the project locations.
<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	Orcutt's pincushion	None/None/1B.1	Coastal bluff scrub (sandy), Coastal dunes/annual herb/Jan–Aug/0–330	Not expected to occur. The project areas associated with the OCSD Facilities Master Plan do not contain any coastal bluffs or sand dunes within the project boundaries.
<i>Chloropyron maritimum</i> <i>ssp. maritimum</i>	salt marsh bird's-beak	FE/SE/1B.2	Coastal dunes, Marshes and swamps (coastal salt)/annual herb (hemiparasitic)/May–Oct(Nov)/0–100	Not expected to occur. There are no coastal dunes, marshes or swamps within the project areas.
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower	FC/SE/1B.1	Coastal scrub (sandy), Valley and foothill grassland/annual herb/Apr–July/490–4,000	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. Additionally there is only one CNDDDB occurrence in the northern side of Orange County and over 8 miles from Project X-086.
<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>	summer holly	None/None/1B.2	Chaparral, Cismontane woodland/perennial evergreen shrub/Apr–June/95–2,590	Not expected to occur. There is no chaparral or cismontane woodland habitat within the project areas to support this species.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Dudleya multicaulis</i>	many-stemmed dudleya	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; often clay/perennial herb/Apr–July/45–2,590	Low potential to occur. There is minimal coastal sage scrub within project X-086. However, this project seems to be part of a restoration using native landscaping. Therefore the soil has been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is 2.7 miles southeast from Project X-086.
<i>Dudleya stolonifera</i>	Laguna Beach dudleya	FT/ST/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; rocky/perennial stoloniferous herb/May–July/30–855	Low potential to occur. Although there is minimal coastal scrub within Project X-086, this area was previously restored using native habitat and therefore the soils were disturbed and likely not suitable for this species to occur.
<i>Eryngium aristulatum</i> <i>var. parishii</i>	San Diego button-celery	FE/SE/1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools; mesic/annual / perennial herb/Apr–June/65–2,030	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur.
<i>Euphorbia misera</i>	cliff spurge	None/None/2B.2	Coastal bluff scrub, Coastal scrub, Mojavean desert scrub; rocky/perennial shrub/Dec–Aug(Oct)/30–1,640	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Helianthus nuttallii</i> ssp. <i>parishii</i>	Los Angeles sunflower	None/None/1A	Marshes and swamps (coastal salt and freshwater)/perennial rhizomatous herb/Aug–Oct/30–5,000	Not expected to occur. There are no marshes or swamps within the project boundaries of the OCSD facilities management plan.
<i>Hordeum intercedens</i>	vernal barley	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (saline flats and depressions), Vernal pools/annual herb/Mar–June/15–3,280	Not expected to occur. The project areas are within developed areas and lack coastal dunes and grasslands necessary for this species to occur.
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; sandy or gravelly/perennial herb/Feb–July(Sep)/225–2,655	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. Additionally, the nearest CNDDDB occurrence is over 18 miles south of this project area.
<i>Nama stenocarpa</i>	mud nama	None/None/2B.2	Marshes and swamps (lake margins, riverbanks)/annual / perennial herb/Jan–July/15–1,640	Not expected to occur. The project areas are within mostly developed areas with ornamental landscapes. There are no marshes and swamps for this species to occur.
<i>Nasturtium gambelii</i>	Gambel's water cress	FE/ST/1B.1	Marshes and swamps (freshwater or brackish)/perennial rhizomatous herb/Apr–Oct/15–1,080	Not expected to occur. The project areas are within developed areas and lack suitable habitat (i.e marshes and swamps) necessary for this species to occur.

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Navarretia prostrata</i>	prostrate vernal pool navarretia	None/None/1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools; Mesic/annual herb/Apr–July/5–3,965	Low potential to occur. There is minimal coastal scrub within Project X- 086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. Additionally, the nearest CNDDDB occurrence is over 25 miles south of this Project area (CDFW 2020).
<i>Nemacaulis denudata</i> <i>var. denudata</i>	coast woolly-heads	None/None/1B.2	Coastal dunes/annual herb/Apr–Sep/0–330	Not expected to occur. The project areas lack coastal dunes suitable for this species.
<i>Orcuttia californica</i>	California Orcutt grass	FE/SE/1B.1	Vernal pools/annual herb/Apr–Aug/45–2,165	Not expected to occur. The project areas lack vernal pools necessary for this species to occur.
<i>Pentachaeta aurea</i> <i>ssp. allenii</i>	Allen's pentachaeta	None/None/1B.1	Coastal scrub (openings), Valley and foothill grassland/annual herb/Mar–June/245–1,705	Low potential to occur. There is minimal coastal scrub within Project X- 086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is approximately 8 miles from this project area (CDFW 2020).

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Phacelia ramosissima</i> <i>var. austrolitoralis</i>	south coast branching phacelia	None/None/3.2	Chaparral, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt); sandy, sometimes rocky/perennial herb/Mar–Aug/15–985	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is approximately 8 miles from this project area (CDFW 2020).
<i>Phacelia stellaris</i>	Brand's star phacelia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar– June/0–1,310	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is approximately 10 miles from this project area and likely extirpated because of the development surround the area (CDFW 2020).
<i>Quercus dumosa</i>	Nuttall's scrub oak	None/None/1B.1	Closed-cone coniferous forest, Chaparral, Coastal scrub; sandy, clay loam/perennial evergreen shrub/Feb–Apr(May–Aug)/45–1,310	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is over 18 miles from this project area (CDFW 2020).

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	None/None/1B.2	Marshes and swamps (assorted shallow freshwater)/perennial rhizomatous herb (emergent)/May–Oct(Nov)/0–2, 130	Not expected to occur. There are no marshes and swamps within the project areas associated with the OCSD Facilities Master Plan.
<i>Senecio aphanactis</i>	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/45–2,620	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is approximately 10 miles from this project area (CDFW 2020).
<i>Suaeda esteroa</i>	estuary seablite	None/None/1B.2	Marshes and swamps (coastal salt)/perennial herb/(May)July–Oct(Jan)/0–15	Not expected to occur. The project area lacks any marshes or swamps suitable for this species.
<i>Symphotrichum defoliatum</i>	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland (vernally mesic); near ditches, streams, springs/perennial rhizomatous herb/July–Nov(Dec)/5–6,690	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. The nearest CNDDDB occurrence is over 9 miles from this project area (CDFW 2020).

APPENDIX E-1 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State/CR PR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
<i>Verbesina dissita</i>	big-leaved crownbeard	FT/ST/1B.1	Chaparral (maritime), Coastal scrub/perennial herb/(Mar)Apr–July/145–675	Low potential to occur. There is minimal coastal scrub within Project X-086. However, this area was previously restored using native habitat. Therefore the soils have been disturbed and likely not suitable for this species to occur. Additionally, most CNDDDB occurrences are found in the southern Orange County area over 20 miles from Project X-086 (CDFW 2020).

¹ **Status Legend:**

FE: Federally listed as endangered

FT: Federally listed as threatened

FC: Federal Candidate for listing

SE: State listed as endangered

ST: State listed as threatened

SR: State Rare

CRPR 1A: Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere

CRPR 1B: Plants Rare, Threatened, or Endangered in California and Elsewhere

CRPR 2A: Plants Presumed Extirpated in California, But More Common Elsewhere

CRPR 2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

CRPR 3: Plants About Which More Information is Needed - A Review List

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

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

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

Appendix E-2

Special-Status Wildlife Species PTO

APPENDIX E-2
Special-Status Wildlife Species Potential to Occur within the Study Area

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
Amphibians				
<i>Spea hammondi</i>	western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. The project areas associated with the OCSD facilities master plan lack the grasslands, vernal pools, or ephemeral wetlands that this species requires to occur.
<i>Reptiles</i>				
<i>Actinemys marmorata</i>	northwestern pond turtle	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Moderate potential to occur. The majority project areas associated with the OCSD facilities master plan lack the streams and ponds necessary for this species to occur. However, a large pond is located adjacent to project X-086 that provides suitable habitat for northwestern pond turtle.
<i>Anniella stebbinsi</i>	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. The project areas are located in fully developed or disturbed habitat. The ornamental vegetation and non-loamy soils within the project areas are not suitable for this species to occur.
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	None/WL	Low-elevation coastal scrub, chaparral, and valley–foothill hardwood	Not expected to occur. Although some of the projects associated with the OCSD facilities master plan are found in lower elevation, they are in developed areas with ornamental vegetation. The project areas do not have the chaparral or valley foothill hardwood needed for this species to occur.
<i>Phrynosoma blainvillii</i>	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. The project areas lack the suitable habitat necessary for this species to occur.

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
Birds				
<i>Agelaius tricolor</i> (nesting colony)	tricolored blackbird	BCC/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	Moderate potential to occur. A portion of Project number X-071 is adjacent to Carr Park where this species has been previously observed less than 1 mile east (CDFW2020 and eBird 2020). The tricolored blackbird may be seen flying overhead; However, there is no suitable wetland habitat within the project boundaries that would support a nesting colony.
<i>Ammodramus savannarum</i> (nesting)	grasshopper sparrow	None/SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	Not expected to occur. The project areas lack the open grasslands needed for this species to occur.
<i>Ardea herodias</i> (nesting colony)	great blue heron	None/None	Nests in large trees or snags; forages in wetlands, water bodies, watercourses, and opportunistically in uplands, including pasture and croplands	Moderate potential to occur. This species has been previously observed nesting within the OCS D Plant 2 location near the southern end of the project area.
<i>Athene cunicularia</i> (burrow sites & some wintering sites)	burrowing owl	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Moderate potential to occur. There are potential open areas with ground squirrel burrows that may provide suitable habitat for this species. Particularly near projects X-065 and X-066. However, the land is disturbed and likely not suitable for this species.
<i>Buteo regalis</i> (wintering)	ferruginous hawk	BCC/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	Low potential to occur. The adjacent agricultural field to the east can provide potential suitable habitat for this species to forage; however no occurrences have been recorded in the vicinity of the program area.
<i>Buteo swainsoni</i> (nesting)	Swainson's hawk	BCC/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	High potential to nest. High potential to forage. Project 3-67 has an adjacent agricultural field with suitable habitat for this species to forage. Additionally, there has

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
				been a nest and a pair observed in 2019 less than 1 mile from this project area (CDFW 2020).
<i>Campylorhynchus brunneicapillus sandiegensis</i> (San Diego & Orange Counties only)	coastal cactus wren	BCC/SSC	Southern cactus scrub patches	Not expected to occur. There are no cactus scrub patches within the project areas for this species to occur. The nearest CNDDDB occurrence is 1 mile south of Project X-061 and 0.7 miles east of Project X-063.
<i>Charadrius alexandrinus nivosus</i> (nesting)	western snowy plover	FT, BCC/SSC	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	Not expected to occur. The project areas do not include any sandy marine or estuarine shores necessary for this species to occur.
<i>Coccyzus americanus occidentalis</i> (nesting)	western yellow-billed cuckoo	FT, BCC/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. The project areas do not include suitable habitat for this species to occur. Although Project X-066 has an adjacent disturbed riparian habitat, this area does not have a dense understory and is surrounded by development.
<i>Coturnicops noveboracensis</i>	yellow rail	BCC/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	Not expected to occur. There are no meadows or marshes within the project boundaries that are suitable for this species to occur.
<i>Elanus leucurus</i> (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Low potential to nest. Not expected to forage. Project X-066 has an adjacent disturbed riparian habitat within the project area that may provide suitable habitat for this species to occur. However, this area is isolated and surrounded by development.
<i>Empidonax traillii extimus</i> (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Moderate potential to occur. Project X-066 has an adjacent disturbed riparian habitat within the project area that may provide suitable habitat for this species to occur. However, there have been no CNDDB

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
				occurrences within 5 miles of the project area.
<i>Falco peregrinus anatum</i> (nesting)	American peregrine falcon	FDL, BCC/FP, SDL	Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows, croplands, especially where waterfowl are present	Low potential to nest. Low potential to forage. The project areas associated with the OCSD facilities master plan are in urbanized and developed areas that may have occasional suitable nesting habitat such as buildings and bridges for this species to occur.
<i>Icteria virens</i> (nesting)	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. The project areas associated with the OCSD facilities master plan lack densely vegetated riparian habitat needed for this species to occur. Project X-066 has disturbed riparian thickets that may be suitable, however, there are no CNDDDB occurrences within 5 miles of that project area.
<i>Laterallus jamaicensis coturniculus</i>	California black rail	BCC/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	Not expected to occur. The project areas associated with the OCSD facilities master plan lacks suitable habitat for this species to occur.
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	None/SE	Nests and forages in coastal saltmarsh dominated by pickleweed (<i>Salicornia</i> spp.)	Low potential to occur. Although there are saltmarsh communities adjacent to Project X-025 and Plant 2, the areas within the project boundaries lack the suitable habitat necessary for this species to occur.
<i>Polioptila californica californica</i>	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	High potential to occur. There is landscaped coastal sage scrub adjacent to Project X-086 and there is a CNDDDB occurrence less than 1 mile away from this project area. Additionally, projects X-065 and X-066 have also had CNDDDB occurrences less than 1 mile away (CDFW 2020 and eBird 2020). However, these project areas lack the sagescrub

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
				communities suitable for this species to occur.
<i>Rallus obsoletus levipes</i>	Ridgway's rail	FE/SE, FP	Coastal wetlands, brackish areas, coastal saline emergent wetlands	Not expected to occur. The project areas lack any suitable wetlands within the project boundaries for this species to occur.
<i>Riparia riparia</i> (nesting)	bank swallow	None/ST	Nests in riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	Not expected to occur. The project areas associated with the OCSD facilities master plan lack any vertical bank habitat in which this species occurs. Additionally, the projects are located in developed areas where most soils within the project boundaries have been compacted and disturbed.
<i>Setophaga petechia</i> (nesting)	yellow warbler	BCC/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Low potential to occur. There has been one CNDDDB occurrence 1 mile north of Project X-086. However this project area lacks riparian thickets and ponderosa pine needed for this species to occur
<i>Sternula antillarum browni</i> (nesting colony)	California least tern	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	Low potential to occur. May be potentially seen flying overhead as there are sandy beaches adjacent to the Plant 1 facility and Project X-022 with CNDDDB occurrences less than 1 mile away. However, the project areas lack any suitable habitat (i.e., estuaries, lagoons, or sandy beaches) for this species to nest or forage.
<i>Vireo bellii pusillus</i> (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Moderate potential to occur. The project area X-066 is adjacent to somewhat disturbed riparian thickets that may provide suitable habitat for this species. Additionally, least Bell's vireo has been recorded less than 1 mile from this project site.

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
Fishes				
<i>Catostomus santaanae</i>	Santa Ana sucker	FT/None	Small, shallow, cool, clear streams less than 7 meters (23 feet) in width and a few centimeters to more than a meter (1.5 inches to more than 3 feet) in depth; substrates are generally coarse gravel, rubble, and boulder	Moderate potential to occur. The project areas associated with the OCSD facilities master plan are within the geographic range of this species, and while there are no streams within the project boundaries, portions of the Santa Ana River provide suitable and Critical habitat for this species that occur adjacent to Plant 1, Plant 2, and X-063 where a CNDDDB occurrence has been recorded (CDFW 2020).
<i>Oncorhynchus mykiss irideus</i> pop. 10	southern steelhead - southern California DPS	FE/None	Clean, clear, cool, well-oxygenated streams; needs relatively deep pools in migration and gravelly substrate to spawn	Not expected to occur. The project areas are outside of the species' known geographic range. Additionally, the project areas associated with the OCSD facilities master plan do not include streams within the project boundaries.
Mammals				
<i>Choeronycteris mexicana</i>	Mexican long-tongued bat	None/SSC	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon-juniper woodland; roosts in caves, mines, and buildings	Not expected to occur. The project areas lack the suitable habitat needed for this species to occur (desert and montane riparian, desert scrub, or juniper woodland). Additionally there is only 1 CNDDDB occurrence throughout the Orange County area. According to the Western Bat Working Group, this species mainly occurs in the San Diego area (WBWG 2020).
<i>Eumops perotis californicus</i>	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. There are no rocky canyons or cliffs for this species to roost. This species is only found near significant rock features (WBWG 2020).
<i>Lasiurus cinereus</i>	hoary bat	None/None	Forest, woodland riparian, and wetland habitats; also juniper scrub, riparian forest, and desert scrub in arid	Low potential to occur. Project X-066 has riparian habitat along the eastern portion of the project boundary that may be suitable

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
			areas; roosts in tree foliage and sometimes cavities, such as woodpecker holes	for this species to occur. However, this species is generally found within LA County or San Diego County. Only one CNDDDB occurrence has been recorded in the Orange County area (CDFW 2020).
<i>Lasiurus xanthinus</i>	western yellow bat	None/SSC	Valley-foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	Not expected to occur. This species is associated with palms and other desert riparian habitats (WBWG). There are no desert like habitats within the project area boundaries for this species to occur.
<i>Microtus californicus stephensi</i>	south coast marsh vole	None/SSC	Tidal marshes	Not expected to occur. There are no tidal marshes within any of the OCSD facilities master plan boundaries.
<i>Myotis yumanensis</i>	Yuma myotis	None/None	Riparian, arid scrublands and deserts, and forests associated with water (streams, rivers, tinajas); roosts in bridges, buildings, cliff crevices, caves, mines, and trees	Low potential to occur. There is a CNDDDB occurrence approximately 1.5 miles from Project X-063 (CDFW 2020).. Although the Santa Ana River is near, with potential suitable foraging habitat, the area within the project boundary lacks any riparian or arid scrublands for this species to occur.
<i>Nyctinomops macrotis</i>	big free-tailed bat	None/SSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Not expected to occur. The project areas lack any rocky areas, caves, or cliffs suitable for this species to occur.
<i>Perognathus longimembris pacificus</i>	Pacific pocket mouse	FE/SSC	fine-grained sandy substrates in open coastal strand, coastal dunes, and river alluvium	Not expected to occur. The only extant locations in Orange County occur in Dana Point, which is over 18 miles south of the projects associated with OCSD facilities master plan. Additionally, the vast majority of soils within the project boundaries have been disturbed or compacted and are not suitable for this species to occur.
<i>Sorex ornatus salicornicus</i>	southern California saltmarsh shrew	None/SSC	Saltmarsh, saltgrass, dense willow, bulrush	Low potential to occur. There are no saltmarshes or salt grass habitats within the project areas suitable for this species. The

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
				nearest CNDDDB occurrence is 1.8 miles west of Project area 3-68.
<i>Taxidea taxus</i>	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. The study areas are located within developed areas and do not contain open habitat that could support this species.
<i>Invertebrates</i>				
<i>Bombus crotchii</i>	Crotch bumble bee	None/PSE	Open grassland and scrub communities supporting suitable floral resources.	Not expected to occur. There are no grassland communities within the project boundaries of the OCSD facilities master plan.
<i>Branchinecta sandiegonensis</i>	San Diego fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. There are no vernal pools or ephemeral pools within any of the project boundaries.
<i>Cicindela gabbii</i>	western tidal-flat tiger beetle	None/None	Inhabits estuaries and mudflats along the coast of Southern California	Not expected to occur. Although there are estuaries south to Plant 2 and other project sites on Pacific Coast Hwy, the project areas do not include suitable habitat within their project boundaries for this species to occur.
<i>Cicindela hirticollis grvida</i>	sandy beach tiger beetle	None/None	Inhabits areas adjacent to non-brackish water along the coast of California from San Francisco Bay to northern Mexico	Low potential to occur. The nearest CNDDDB occurrence is approximately 0.5 miles from the project numbers X022 and X-041. However, these project areas are located in developed areas and lack suitable habitat for this species to occur.
<i>Cicindela latesignata latesignata</i>	western beach tiger beetle	None/None	Mudflats and beaches in coastal Southern California	Not expected to occur. The project areas associated with the OCSD facilities master plan lack suitable habitat (i.e., mudflats and beaches) for this species to occur.
<i>Cicindela latesignata obliviosa</i>	Oblivious tiger beetle	None/None	Inhabited the Southern California coastline, from La Jolla north to the Orange County line. Occupied saline mudflats and moist sandy spots in estuaries of small streams in the lower zone. Has not been observed in	Not expected to occur. The project areas associated with the OCSD facilities master plan lack suitable habitat such as estuaries or saline mudflats for this species to occur.

APPENDIX E-2 (Continued)

Scientific Name	Common Name	Status ¹ (Federal/State)	Habitat	Potential to Occur
			20 years. The oblivious tiger beetle (<i>C. l. obliviosa</i>) is no longer the accepted name for this species (ITIS 2016).	Additionally, there are no CNDDDB occurrences within the Orange County area.
<i>Coelus globosus</i>	globose dune beetle	None/None	Inhabitant of coastal sand dune habitat; erratically distributed from Ten Mile Creek in Mendocino County south to Ensenada, Mexico	Low potential to occur. The nearest CNDDDB occurrence is approximately 0.5 miles from the project numbers X022 and X-041. However, these project areas are located in developed areas and lack suitable habitat for this species to occur.
<i>Danaus plexippus</i>	monarch	None/None	Wind-protected tree groves with nectar sources and nearby water sources	Not expected to occur. The site is outside of the species' known geographic range and there is no suitable vegetation present.
<i>Euphydryas editha quino</i>	quino checkerspot butterfly	FE/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clay; host plants include <i>Plantago erecta</i> , <i>Antirrhinum coulterianum</i> , and <i>Plantago patagonica</i> (Silverado Occurrence Complex)	Not expected to occur. The project areas associated with the OCSD facilities master plan lack the suitable habitat needed for this species to occur. The soils within the project boundaries have been previously disturbed and do not include any specific plant species in which the quino checkerspot butterfly needs to occur. Additionally there have only been 3 CNDDDB observations in the entire service area (CDFW 2020).
<i>Panoquina errans</i>	wandering skipper	None/None	Saltmarsh	Not expected to occur. There are no saltmarsh habitats within the OCSD facilities master plan project boundaries.
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. The project areas are in generally developed areas. There are no vernal or ephemeral pools within the project area boundaries.
<i>Tryonia imitator</i>	mimic tryonia (=California brackishwater snail)	None/None	Inhabits coastal lagoons, estuaries, and saltmarshes, from Sonoma County south to San Diego County	Not expected occur. The project areas are located in developed areas and lack the suitable habitat necessary for this species to occur.

APPENDIX E-2 (Continued)

¹ **Status Notes:**

FE: Federally Endangered

FT: Federally Threatened

FC: Federal Candidate

BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern

SSC: California Species of Special Concern

FP: California Fully Protected Species

WL: California Watch List Species

SE: State Endangered

ST: State Threatened

SS: List Special Animals List, but no other status

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Western Bat Working Group. Accessed March 2020.

Appendix E-3

CNDDDB List of Species

SNAME	CNAME	FEDLIST	CALLIST	GRANK	SRANK	RPLANTRANK	CDFWSTATUS
Cicindela gabbii	western tidal-flat tiger beetle	None	None	G2G4	S1		
Astragalus hornii var. hornii	Horn's milk-vetch	None	None	GUT1	S1	1B.1	
Laterallus jamaicensis coturniculus	California black rail	None	Threatened	G3G4T1	S1		FP
Riparia riparia	bank swallow	None	Threatened	G5	S2		
Falco peregrinus anatum	American peregrine falcon	Delisted	Delisted	G4T4	S3S4		FP
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Endangered	None	G5T1Q	S1		
Coturnicops noveboracensis	yellow rail	None	None	G4	S1S2		SSC
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	None	None	GNR	SNR		
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	None	None	G5TH	SH	1A	
Euphydryas editha quino	quino checkerspot butterfly	Endangered	None	G5T1T2	S1S2		
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Symphyotrichum defoliatum	San Bernardino aster	None	None	G2	S2	1B.2	
Aphanisma blitoides	aphanisma	None	None	G3G4	S2	1B.2	
Bombus crotchii	Crotch bumble bee	None	Candidate Endangered	G3G4	S1S2		
Charadrius alexandrinus nivosus	western snowy plover	Threatened	None	G3T3	S2S3		SSC
Riparia riparia	bank swallow	None	Threatened	G5	S2		
Nasturtium gambelii	Gambel's water cress	Endangered	Threatened	G1	S1	1B.1	
Nasturtium gambelii	Gambel's water cress	Endangered	Threatened	G1	S1	1B.1	
Sidalcea neomexicana	salt spring checkerbloom	None	None	G4	S2	2B.2	
Bombus crotchii	Crotch bumble bee	None	Candidate Endangered	G3G4	S1S2		
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Threatened	Endangered	G5T2T3	S1		
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Isocoma menziesii var. decumbens	decumbent goldenbush	None	None	G3G5T2T3	S2	1B.2	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Symphyotrichum defoliatum	San Bernardino aster	None	None	G2	S2	1B.2	
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Atriplex parishii	Parish's brittlescale	None	None	G1G2	S1	1B.1	
Symphyotrichum defoliatum	San Bernardino aster	None	None	G2	S2	1B.2	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Symphyotrichum defoliatum	San Bernardino aster	None	None	G2	S2	1B.2	
Bombus crotchii	Crotch bumble bee	None	Candidate Endangered	G3G4	S1S2		
Choeronycteris mexicana	Mexican long-tongued bat	None	None	G4	S1		SSC
Bombus crotchii	Crotch bumble bee	None	Candidate Endangered	G3G4	S1S2		
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	G5T2	S2		
Athene cucularia	burrowing owl	None	None	G4	S3		SSC
Anniella stebbinsi	southern California legless lizard	None	None	G3	S3		SSC
Buteo swainsoni	Swainson's hawk	None	Threatened	G5	S3		
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Threatened	Endangered	G5T2T3	S1		
Perognathus longimembris pacificus	Pacific pocket mouse	Endangered	None	G5T1	S1		SSC
Microtus californicus stephensi	south coast marsh vole	None	None	G5T1T2	S1S2		SSC
Sorex ornatus salicornicus	southern California saltmarsh shrew	None	None	G5T1?	S1		SSC
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Endangered	Endangered	G4?T1	S1	1B.2	
Nama stenocarpa	mud nama	None	None	G4G5	S1S2	2B.2	

Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Endangered	Endangered	G4?T1	S1	1B.2	
Lasiurus xanthinus	western yellow bat	None	None	G5	S3		SSC
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Atriplex serenana var. davidsonii	Davidson's saltscale	None	None	G5T1	S1	1B.2	
Phrynosoma blainvillii	coast horned lizard	None	None	G3G4	S3S4		SSC
Phrynosoma blainvillii	coast horned lizard	None	None	G3G4	S3S4		SSC
Aspidoscelis hyperythra	orange-throated whiptail	None	None	G5	S2S3		WL
Nama stenocarpa	mud nama	None	None	G4G5	S1S2	2B.2	
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	None	None	G5T3Q	S3		SSC
Riparia riparia	bank swallow	None	Threatened	G5	S2		
Lasiurus cinereus	hoary bat	None	None	G5	S4		
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	None	None	G2	S2.1		
Passerculus sandwichensis beldingi	Belding's savannah sparrow	None	Endangered	G5T3	S3		
Tryonia imitator	mimic tryonia (=California brackishwater snail)	None	None	G2	S2		
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Endangered	Endangered	G4?T1	S1	1B.2	
Astragalus pycnostachyus var. lanosissimus	Ventura Marsh milk-vetch	Endangered	Endangered	G2T1	S1	1B.1	
Passerculus sandwichensis beldingi	Belding's savannah sparrow	None	Endangered	G5T3	S3		
Rallus obsoletus levipes	light-footed Ridgway's rail	Endangered	Endangered	G5T1T2	S1		FP
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	None	None	G2	S2.1		
Phrynosoma blainvillii	coast horned lizard	None	None	G3G4	S3S4		SSC
Cicindela gabbii	western tidal-flat tiger beetle	None	None	G2G4	S1		
Atriplex serenana var. davidsonii	Davidson's saltscale	None	None	G5T1	S1	1B.2	
Suaeda esteroa	estuary seablite	None	None	G3	S2	1B.2	
Aspidoscelis hyperythra	orange-throated whiptail	None	None	G5	S2S3		WL
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	None	None	G5T3Q	S3		SSC
Buteo regalis	ferruginous hawk	None	None	G4	S3S4		WL
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Athene cunicularia	burrowing owl	None	None	G4	S3		SSC
Eumops perotis californicus	western mastiff bat	None	None	G5T4	S3S4		SSC
Rallus obsoletus levipes	light-footed Ridgway's rail	Endangered	Endangered	G5T1T2	S1		FP
Rallus obsoletus levipes	light-footed Ridgway's rail	Endangered	Endangered	G5T1T2	S1		FP
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	None	None	G5T3Q	S3		SSC
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	None	None	G5T3Q	S3		SSC
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	G5T2	S2		
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Abronia villosa var. aurita	chaparral sand-verbena	None	None	G5T2?	S2	1B.1	
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	None	None	G2	S2.1		
Icteria virens	yellow-breasted chat	None	None	G5	S3		SSC
Campylorhynchus brunneicapillus sandiegensis	coastal cactus wren	None	None	G5T3Q	S3		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC

<i>Sternula antillarum browni</i>	California least tern	Endangered	Endangered	G4T2T3Q	S2		FP
<i>Cicindela latesignata latesignata</i>	western beach tiger beetle	None	None	G2G4T1T2	S1		
<i>Coelus globosus</i>	globose dune beetle	None	None	G1G2	S1S2		
<i>Cicindela gabbii</i>	western tidal-flat tiger beetle	None	None	G2G4	S1		
<i>Emys marmorata</i>	western pond turtle	None	None	G3G4	S3		SSC
<i>Charadrius alexandrinus nivosus</i>	western snowy plover	Threatened	None	G3T3	S2S3		SSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
<i>Sidalcea neomexicana</i>	salt spring checkerbloom	None	None	G4	S2	2B.2	
<i>Spea hammondii</i>	western spadefoot	None	None	G3	S3		SSC
<i>Charadrius alexandrinus nivosus</i>	western snowy plover	Threatened	None	G3T3	S2S3		SSC
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	None	None	G5	S2S3		WL
<i>Lasthenia glabrata ssp. coulteri</i>	Coulter's goldfields	None	None	G4T2	S2	1B.1	
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Dudleya multicaulis</i>	many-stemmed dudleya	None	None	G2	S2	1B.2	
<i>Nyctinomops macrotis</i>	big free-tailed bat	None	None	G5	S3		SSC
<i>Anniella stebbinsi</i>	southern California legless lizard	None	None	G3	S3		SSC
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Eumops perotis californicus</i>	western mastiff bat	None	None	G5T4	S3S4		SSC
<i>Eumops perotis californicus</i>	western mastiff bat	None	None	G5T4	S3S4		SSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	None	None	G3	S3.2		
<i>Cicindela hirticollis gravida</i>	sandy beach tiger beetle	None	None	G5T2	S2		
<i>Phacelia stellaris</i>	Brand's star phacelia	None	None	G1	S1	1B.1	
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Nemacaulis denudata var. denudata</i>	coast woolly-heads	None	None	G3G4T2	S2	1B.2	
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Southern Foredunes	Southern Foredunes	None	None	G2	S2.1		
<i>Coelus globosus</i>	globose dune beetle	None	None	G1G2	S1S2		
<i>Centromadia parryi ssp. australis</i>	southern tarplant	None	None	G3T2	S2	1B.1	
<i>Centromadia parryi ssp. australis</i>	southern tarplant	None	None	G3T2	S2	1B.1	
<i>Emys marmorata</i>	western pond turtle	None	None	G3G4	S3		SSC
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	None	None	G4	S4		
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	None	Endangered	G5T3	S3		
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	None	None	G2	S2.1		
<i>Rallus obsoletus levipes</i>	light-footed Ridgway's rail	Endangered	Endangered	G5T1T2	S1		FP
<i>Panoquina errans</i>	wandering (=saltmarsh) skipper	None	None	G4G5	S2		
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2		
<i>Charadrius alexandrinus nivosus</i>	western snowy plover	Threatened	None	G3T3	S2S3		SSC
<i>Agelaius tricolor</i>	tricolored blackbird	None	Threatened	G2G3	S1S2		SSC
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	None	None	G4	S4		

Abronia villosa var. aurita	chaparral sand-verbena	None	None	G5T2?	S2	1B.1	
Cicindela latesignata latesignata	western beach tiger beetle	None	None	G2G4T1T2	S1		
Cicindela gabbii	western tidal-flat tiger beetle	None	None	G2G4	S1		
Passerculus sandwichensis beldingi	Belding's savannah sparrow	None	Endangered	G5T3	S3		
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Horkelia cuneata var. puberula	mesa horkelia	None	None	G4T1	S1	1B.1	
Sternula antillarum browni	California least tern	Endangered	Endangered	G4T2T3Q	S2		FP
Spea hammondii	western spadefoot	None	None	G3	S3		SSC
Agelaius tricolor	tricolored blackbird	None	Threatened	G2G3	S1S2		SSC
Elanus leucurus	white-tailed kite	None	None	G5	S3S4		FP
Taxidea taxus	American badger	None	None	G5	S3		SSC
Danaus plexippus pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3		
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Sternula antillarum browni	California least tern	Endangered	Endangered	G4T2T3Q	S2		FP
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Sternula antillarum browni	California least tern	Endangered	Endangered	G4T2T3Q	S2		FP
Athene cunicularia	burrowing owl	None	None	G4	S3		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Athene cunicularia	burrowing owl	None	None	G4	S3		SSC
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Emys marmorata	western pond turtle	None	None	G3G4	S3		SSC
Valley Needlegrass Grassland	Valley Needlegrass Grassland	None	None	G3	S3.1		
Phrynosoma blainvillii	coast horned lizard	None	None	G3G4	S3S4		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Abronia villosa var. aurita	chaparral sand-verbena	None	None	G5T2?	S2	1B.1	
Catostomus santaanae	Santa Ana sucker	Threatened	None	G1	S1		
Southern Dune Scrub	Southern Dune Scrub	None	None	G1	S1.1		
Southern Coastal Salt Marsh	Southern Coastal Salt Marsh	None	None	G2	S2.1		
Passerculus sandwichensis beldingi	Belding's savannah sparrow	None	Endangered	G5T3	S3		
Charadrius alexandrinus nivosus	western snowy plover	Threatened	None	G3T3	S2S3		SSC
Panoquina errans	wandering (=saltmarsh) skipper	None	None	G4G5	S2		
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	G5T2	S2		
Setophaga petechia	yellow warbler	None	None	G5	S3S4		SSC
Icteria virens	yellow-breasted chat	None	None	G5	S3		SSC
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	

Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Abronia villosa var. aurita	chaparral sand-verbena	None	None	G5T2?	S2	1B.1	
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	None	None	G3	S3.2		
Danaus plexippus pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3		
Danaus plexippus pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3		
Catostomus santaanae	Santa Ana sucker	Threatened	None	G1	S1		
Southern Foredunes	Southern Foredunes	None	None	G2	S2.1		
Southern Foredunes	Southern Foredunes	None	None	G2	S2.1		
Elanus leucurus	white-tailed kite	None	None	G5	S3S4		FP
Branchinecta sandiegonensis	San Diego fairy shrimp	Endangered	None	G2	S2		
Branchinecta sandiegonensis	San Diego fairy shrimp	Endangered	None	G2	S2		
Branchinecta sandiegonensis	San Diego fairy shrimp	Endangered	None	G2	S2		
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Panoquina errans	wandering (=saltmarsh) skipper	None	None	G4G5	S2		
Danaus plexippus pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3		
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Anniella stebbinsi	southern California legless lizard	None	None	G3	S3		SSC
Sternula antillarum browni	California least tern	Endangered	Endangered	G4T2T3Q	S2		FP
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Catostomus santaanae	Santa Ana sucker	Threatened	None	G1	S1		
Elanus leucurus	white-tailed kite	None	None	G5	S3S4		FP
Danaus plexippus pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3		
Elanus leucurus	white-tailed kite	None	None	G5	S3S4		FP
Elanus leucurus	white-tailed kite	None	None	G5	S3S4		FP
Navarretia prostrata	prostrate vernal pool navarretia	None	None	G2	S2	1B.2	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	G5T2	S2		
Branchinecta sandiegonensis	San Diego fairy shrimp	Endangered	None	G2	S2		
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Dudleya multicaulis	many-stemmed dudleya	None	None	G2	S2	1B.2	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	G4T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1	
Vireo bellii pusillus	least Bell's vireo	Endangered	Endangered	G5T2	S2		
Streptocephalus woottoni	Riverside fairy shrimp	Endangered	None	G1G2	S1S2		
Polioptila californica californica	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2		SSC

<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Euphorbia misera</i>	cliff spurge	None	None	G5	S2	2B.2		
<i>Euphorbia misera</i>	cliff spurge	None	None	G5	S2	2B.2		
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Vireo bellii pusillus</i>	least Bell's vireo	Endangered	Endangered	G5T2	S2			
<i>Myotis yumanensis</i>	Yuma myotis	None	None	G5	S4			
<i>Dudleya multicaulis</i>	many-stemmed dudleya	None	None	G2	S2	1B.2		
<i>Nemacaulis denudata</i> var. <i>denudata</i>	coast woolly-heads	None	None	G3G4T2	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Sternula antillarum browni</i>	California least tern	Endangered	Endangered	G4T2T3Q	S2			FP
<i>Icteria virens</i>	yellow-breasted chat	None	None	G5	S3			SSC
<i>Suaeda esteroa</i>	estuary seablite	None	None	G3	S2	1B.2		
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena	None	None	G5T2?	S2	1B.1		
<i>Atriplex coulteri</i>	Coulter's saltbush	None	None	G3	S1S2	1B.2		
<i>Buteo swainsoni</i>	Swainson's hawk	None	Threatened	G5	S3			
<i>Athene cucularia</i>	burrowing owl	None	None	G4	S3			SSC
<i>Agelaius tricolor</i>	tricolored blackbird	None	Threatened	G2G3	S1S2			SSC
<i>Setophaga petechia</i>	yellow warbler	None	None	G5	S3S4			SSC
<i>Icteria virens</i>	yellow-breasted chat	None	None	G5	S3			SSC
<i>Atriplex coulteri</i>	Coulter's saltbush	None	None	G3	S1S2	1B.2		
<i>Eryngium aristulatum</i> var. <i>parishii</i>	San Diego button-celery	Endangered	Endangered	G5T1	S1	1B.1		
<i>Suaeda esteroa</i>	estuary seablite	None	None	G3	S2	1B.2		
<i>Atriplex coulteri</i>	Coulter's saltbush	None	None	G3	S1S2	1B.2		
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	None	None	G3T2	S2	1B.1		
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	None	None	G4T2	S2	1B.1		
<i>Ardea herodias</i>	great blue heron	None	None	G5	S4			
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Athene cucularia</i>	burrowing owl	None	None	G4	S3			SSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Ammodramus savannarum</i>	grasshopper sparrow	None	None	G5	S3			SSC
<i>Atriplex serenana</i> var. <i>davidsonii</i>	Davidson's saltscale	None	None	G5T1	S1	1B.2		
<i>Atriplex pacifica</i>	south coast saltscale	None	None	G4	S2	1B.2		
<i>Danaus plexippus</i> pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3			
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	None	None	G3T2	S2	1B.1		
<i>Quercus dumosa</i>	Nuttall's scrub oak	None	None	G3	S3	1B.1		
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Threatened	None	G4G5T2Q	S2			SSC
<i>Danaus plexippus</i> pop. 1	monarch - California overwintering population	None	None	G4T2T3	S2S3			
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Aphanisma blitoides</i>	aphanisma	None	None	G3G4	S2	1B.2		
<i>Suaeda esteroa</i>	estuary seablite	None	None	G3	S2	1B.2		

Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1
Nemacaulis denudata var. denudata	coast woolly-heads	None	None	G3G4T2	S2	1B.2
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1
Orcuttia californica	California Orcutt grass	Endangered	Endangered	G1	S1	1B.1
Centromadia parryi ssp. australis	southern tarplant	None	None	G3T2	S2	1B.1