

Appendix 4
Endangered and
Threatened Species

This page is deliberately blank

**Table 4-1
MSCP Covered Species**

Common Name	Scientific Name	Status	Habitat
Plants			
San Diego thormmint	<i>Acanthomintha ilicifolia</i>	FT, SE	Chaparral, coastal scrub, grassland, vernal pools.
Shaw's agave	<i>Agave shawii</i>	CNPS List 2	Coastal scrub.
San Diego ambrosia	<i>Ambrosia pumila</i>	FE, CNPS List 1B	Coastal scrub.
Aphanisma	<i>Aphanisma blitoides</i>	CNPS List 1B	Coastal dunes and coastal scrub.
Del Mar manzanita	<i>Arctostaphylos glandulosa</i> var. <i>crassifolia</i>	FE, CNPS List 1B	Chaparral, coniferous forest.
Otay manzanita	<i>Arctostaphylos otavensis</i>	CNPS 1B	Chaparral and cismontane woodland.
Coastal dunes milk vetch	<i>Astragalus tener</i> var. <i>titi</i>	FE, SE, CNPS List 1B	Coastal scrub and coastal dunes.
Encinitas baccharis	<i>Baccharis vanessae</i>	FT, SE, CNPS List 1B	Chaparral.
Nevin's barberry	<i>Berberis nevinii</i>	FE, SE, CNPS List 1B	Chaparral, cismontane woodland, coastal scrub, riparian scrub.
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	FT, SE, CNPS List 1B	Cismontane woodland, coastal scrub, grassland, vernal pools.
Orcutt's brodiaea	<i>Brodiaea orcuttii</i>	CNPS List 1B	Vernal pools, grassland, coniferous forest, cismontane woodland, chaparral.
Dense reed grass	<i>Calamagrostis koelerioides</i>	CNPS List 4	Meadows, slopes, dry hills, and ridges.
Dunn's mariposa lily	<i>Calocortus dunnii</i>	SR, CNPS List 1B	Coniferous forest and chaparral.
Slender-pod jewel flower	<i>Caulanthus stenocarpus</i>	SR	Chaparral.
Lakeside ceanothus	<i>Ceanothus cyaneus</i>	CNPS List 1B	Coniferous forest and chaparral.
Wart-stemmed ceanothus	<i>Ceanothus verrucosus</i>	CNPS List 2	Chaparral.
Salt marsh bird's-beak	<i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	FE, SE, CNPS List 1B	Coastal salt marsh and coastal dunes.
Orcutt's bird's-beak	<i>Cordylanthus orcuttianus</i>	CNPS List 2	Coastal scrub.
Del Mar sand aster	<i>Corethrogyre filaginiogolia</i> var. <i>linifolia</i>	CNPS List 1B	Chaparral and coastal scrub.
Tecate cypress	<i>Cupressus forbesii</i>	CNPS List 1B	Coniferous forest and chaparral.
Short-leaved live-forever	<i>Dudleya blochmaniae</i> ssp. <i>brevifolia</i>	SE, CNPS List 1B	Chaparral and coastal scrub.
Variegated dudleya	<i>Dudleya variegata</i>	CNPS List 1B	Chaparral, coastal scrub, cismontane woodland, grassland, and vernal pools.
Sticky dudleya	<i>Dudleya viscida</i>	CNPS List 1B	Coastal scrub and chaparral.
Palmer's ericameria	<i>Ericameria palmeri</i> ssp. <i>palmeri</i>	CNPS List 2, County Group B	Coastal drainages in mesic chaparral.
Coast wallflower	<i>Erysimum ammophilum</i>	FE, SE, CNPS List 1B	Vernal pools, coastal scrub, and grassland.
San Diego button-celery	<i>Eryngium aristulatum</i> ssp. <i>parishii</i>	CNPS List 1B	Chaparral (maritime), coastal dunes, and coastal scrub.
San Diego barrel cactus	<i>Ferocactus viridescens</i>	CNPS List 2	Chaparral, coastal scrub, grassland.

**Table 4-1
MSCP Covered Species**

Common Name	Scientific Name	Status	Habitat
Otay tarplant	<i>Hemizonia viridescens</i>	FT, SE, CNPS List 1B	Coastal scrub and grassland.
Heart-leaved pitcher sage	<i>Lepechinia cardiophylla</i>	CNPS List 1B	Coniferous forest, chaparral, and cismontane woodland.
Gander's pitcher sage	<i>Lepechinia ganderi</i>	CNPS List 1B	Coniferous forest, coastal scrub, and grassland.
Nuttall's lotus	<i>Lotus nuttallianus</i>	CNPS List 1B	Coastal dunes and coastal scrub.
Felt-leaved monardella	<i>Lotus hypoleuca</i> ssp. <i>lanata</i>	CNPS List 1B	Chaparral and cismontane woodland.
Willow monardella	<i>Monardella linoides</i> ssp. <i>viminea</i>	FE, SE, CNPS List 1B	Coastal scrub (alluvial ephemeral washes with adjacent coastal scrub, chaparral, and sycamore woodland).
San Diego goldenstar	<i>Muilla clevelandii</i>	CNPS List 1B	Chaparral, coastal scrub, grassland, and vernal pools.
Postrate navarretia	<i>Navarretia fossalis</i>	CNPS List 1B	Coastal scrub, grassland, and vernal pools.
Dehesa bear-grass	<i>Nolina interra</i>	SE, CNPS List 1B	Dry slopes in chaparral.
Snake cholla	<i>Opuntia parryi</i> var. <i>Serpentina</i>	CNPS List 1B	Chaparral and coastal scrub.
California Orcutt grass	<i>Orcuttia californica</i>	FE, SE, CNPS List 1B	Vernal pools.
San Diego mesa mint	<i>Poqoqyne abramsii</i>	CNPS List 1B	Coniferous forest and chaparral.
Otay mesa mint	<i>Poqoqyne nudiuscula</i>	FE, SE, CNPS List 1B	Vernal pools.
Torrey pine (native populations)	<i>Pinus torreyana</i> ssp. <i>torreyana</i>	FE, SE, CNPS List 1B	Vernal pools.
Small-leaved rose	<i>Rosa minutifolia</i>	SE, CNPS List 2	Coastal scrub and chaparral.
Gander's butterweed	<i>Senecio ganderi</i>	CNPS List 1B	Chaparral, cismontane woodland, coastal scrub, riparian woodland, and grassland.
Narrow-leaved nightshade	<i>Solanum tenuilobatum</i>	N/A	Open chamise chaparral and sage scrub.
Parry's tetracoccus	<i>Tetrococcus dioicus</i>	County Group A	Found in chaparral and coastal scrub. Prefers stony, decomposed gabbro soil
Wildlife			
Saltmarsh skipper	<i>Panoquina errans</i>	N/A	Coastal salt marshes.
Thorne's hairstreak	<i>Mitoura thornei</i>	N/A	Associated with Tecate Cypress (Otay Mt.).
Riverside fairy shrimp*	<i>Streptocephalus woottonii</i>	FE	Vernal pools.
San Diego fairy shrimp*	<i>Branchinecta sandiegonensis</i>	FE	Vernal pools.
Arroyo southwestern toad	<i>Bufo microscanphus</i> ssp. <i>californicus</i>	FE	Semi-arid regions near washes or intermittent streams.
California red-legged frog	<i>Rana aurora</i> ssp. <i>Draytoni</i>	FT	Lowlands & foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.
Southwestern pond turtle	<i>Clemmys marmorata</i> ssp. <i>Pallida</i>	CSC	Permanent or nearly permanent bodies of water in many habitat types (below 6,000 ft. elevation).

**Table 4-1
MSCP Covered Species**

Common Name	Scientific Name	Status	Habitat
Orange-throated whiptail	<i>Cnemidophorus hyperythrus</i> ssp. <i>beldingi</i>	CSC	Coastal scrub and chaparral.
San Diego horned lizard	<i>Phrynosoma coronatum</i> ssp. <i>balinvillei</i>	CSC	Coastal sage scrub and chaparral in arid and semi-arid climate conditions.
Cooper's hawk	<i>Accipiter cooperii</i>	CSC	Woodland (nesting).
Tricolored blackbird	<i>Agelaius tricolor</i>	CSC	Riparian (marshes)
Golden eagle	<i>Aquila chrysaetos</i>	CSC	(Nesting & wintering) Rolling foothills mountain areas and desert.
Southern California rufous-crowned sparrow	<i>Aimophila ruficeps</i> ssp. <i>canescens</i>	CSC	Coastal sage scrub and chaparral.
Canada goose	<i>Branta canadensis</i> ssp. <i>Moffitti</i>	N/A	Nests at edges of ponds, lakes, or swamps on rocks or grass out in the water.
Swainson's hawk	<i>Buteo swainsoni</i>	ST	(Nesting) riparian and oaks.
Ferruginous hawk	<i>Buteo regalis</i>	CSC	(Wintering) Grassland, desert scrub.
Coastal cactus wren	<i>Campylorhynchus brunneicapillus</i> ssp. <i>Couesi</i>	CSC	Coastal sage scrub.
Western snowy plover	<i>Charadrius alexandrinus</i> ssp. <i>nivosus</i>	FT, CSC	(Nesting) Coastal beaches.
Mountain plover	<i>Charadrius montanus</i>	CSC	(Wintering) Grassland and agricultural fields.
Northern harrier	<i>Circus cyaneus</i>	CSC	(Nesting) coastal salt & freshwater marsh and grasslands.
Reddish egret	<i>Egretta rufescens</i>	N/A	Marshes and swamps
Southwestern willow flycatcher	<i>Empidonax traillii</i> ssp. <i>extimus</i>	FE, SE	(Nesting) Riparian woodlands.
American peregrine falcon	<i>Falco peregrinus anatum</i>	SE (federally delisted)	(Nesting) Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also human-made structures.
Bald eagle	<i>Haliaeetus leucocephalus</i>	FT, SE	(Nesting & wintering) Ocean shore, lake margins, & rivers. Most nests within 1 mi of water.
Long-billed curlew	<i>Numenius americanus</i>	N/A	(Nesting) Breeds in upland grasslands and wet meadows.
Belding's savannah sparrow	<i>Passerculus sandwichensis</i> ssp. <i>beldingi</i>	SE	Coastal salt marshes.
Large-billed savannah sparrow	<i>Passerculus sandwichensis</i>	CSC	(Wintering) Breeds along the Colorado River delta in Mexico and winters at the Salton Sea.
California brown pelican	<i>Palcanus occidentalis</i> ssp. <i>californicus</i>	FE, SE	(Nesting colony) Colonial nester on coastal islands just outside the surf line.
White-faced ibis	<i>Plegadis chihi</i>	CSC	(Rookery site) Shallow fresh-water marsh.
California gnatcatcher	<i>Poliopitila californica</i> ssp. <i>californica</i>	FT, CSC	Coastal sage scrub.
Light-footed clapper rail	<i>Rallus longirostris</i> ssp. <i>levipes</i>	FE, SE	Salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation.

**Table 4-1
MSCP Covered Species**

Common Name	Scientific Name	Status	Habitat
Western bluebird	<i>Sialia mexicana</i>	N/A	Edges of oak woodlands, typically where they adjoin meadows or grasslands (Unitt 1984).
Burrowing owl	<i>Speotyro (Athene) cucicularia</i> ssp. <i>hypugaea</i>	CSC	(Burrow sites) Open, dry annual or perennial grasslands and agricultural fields.
Elegant tern	<i>Sterna elegans</i>	CSC	(Nesting colony) Only known breeding colony in U.S. located in the salt work dikes at the south end of San Diego Bay.
California least tern	<i>Sterna antillarum</i> ssp. <i>browni</i>	FE, SE	(Nesting colony) Nests along the coast from San Francisco Bay south to northern Baja California.
Least Bell's vireo	<i>Vireo bellii</i> ssp. <i>pusillus</i>	SE, FE	(Nesting) Summer resident of southern California in low riparian in the vicinity of water or in dry river bottoms.
American badger	<i>Taxidea taxus</i>	CSC	Drier open stages of most shrub, forest, and herbaceous habitats with friable soils.
Southern mule deer	<i>Odocoileus hemionus fuliginata</i>	N/A	Various habitats from forests to deserts.
Mountain lion	<i>Felis concolor</i>	CFP	Brushy or forested regions.

FT – Federally Threatened; FE – Federally Endangered; ST – State Threatened; SE – State Endangered; SR - State Rare; CSC – California Species of Concern; CFP – California Fully Protected Species; CNPS List 1B – California Native Plant Society List 1B (Plants rare, threatened or endangered in California and elsewhere); CNPS List 2 – California Native Plant Society List 2 (Plants rare, threatened or endangered in California, but more common elsewhere); CNPS List 4 – California Native Plant Society List 4 (Plants of limited distribution; a watch list); County Group B – Plants rare, threatened or endangered in California, but more common elsewhere; County Group A – Plants rare, threatened or endangered in California and elsewhere.

Table 4 - 2
Sensitive Species (not covered by the MSCP)

Common Name	Scientific Name	Status	Habitat
Plants			
Delicate clarkia	<i>Clarkia delicata</i>	CNPS List 1B	Oak woodlands.
Summer holly	<i>Comarostaphylis diversifolia ssp. diersifolia</i>	CNPS List 1B	Coastal and foothill canyons in chaparral.
Otay tarplant	<i>Deinandra conjugens</i>	CNPS List 1B	Upper montane coniferous forest.
Short-leaved dudleya	<i>Dudleya multicaulis</i>	CNPS List 1B	Chaparral and coastal scrub.
San Diego sunflower	<i>Hulsea californica</i>	CNPS List 1B	Chaparral slopes in montane areas.
Spreading navarretia	<i>Navarretia fossalis</i>	CNPS List 1B	Vernal pools.
Chaparral nolina	<i>Nolina cismontana</i>	CNPS List 1B	Chaparral and coastal scrub.
Nuttall's scrub oak	<i>Quercus dumosa</i>	CNPS List 1B	Maritime chaparral.
Moreno currant	<i>Ribes canthariforme</i>	CNPS List 1B	Moist areas in southern interior chaparral.
Gander's ragwort	<i>Senecio ganderi</i>	CNPS List 1B	Gabbro soils in interior regions.
Invertebrates			
Laguna Mountain skipper	<i>Pyrgus ruralis lagunae</i>	FE	Open mountain meadows.
Quino checkerspot butterfly*	<i>Euphydryas editha quino</i>	FE	Open sunny areas in sage scrub and chaparral.
Fish			
Desert pupfish (introduced in ABDSP)	<i>Cyprinodon macularius</i>	FE, SE	Desert ponds, springs, marshes and streams.
Tidewater goby	<i>Eucyclogobius newberryi</i>	FE	Brackish water habitats along the coast.
Unarmored three-spine stickleback (introduced)	<i>Casterosteus aculeatus williamsoni</i>	FE, SE	Weedy pools, backwaters, and among emergent vegetation along stream edges.
Southern steel head trout	<i>Oncorhynchus mykiss</i>	FE, CSC	Rivers and creeks (federal listing refers to populations from Santa Maria River south to San Mateo Creek).
Amphibians and Reptiles			
Desert slender salamander	<i>Batrachoseps major aridus</i>	FE, SE	Desert washes and desert scrub (known only from Hidden Palm Canyon and Guadalupe Creek).
Mountain yellow legged frog	<i>Rana muscosa</i>	FE	Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino Mountains only (always found near water).
Southwestern pond turtle	<i>Clemmys marmorata pallida</i>	CSC	Permanent or nearly permanent bodies of water in a variety of habitat types.
Coastal western whiptail	<i>Aspidoscelis tigris stejnegeri</i>	FSC	Deserts and semiarid areas with sparse vegetation and open areas (also found in woodland and riparian areas).
Northern red diamond rattlesnake	<i>Crotalus ruber ruber</i>	CSC/FSC	Chaparral, woodland, grassland, and desert areas.

**Table 4 - 2
Sensitive Species (not covered by the MSCP)**

Common Name	Scientific Name	Status	Habitat
Barefoot banded gecko	<i>Coleonyx switaki</i>	FT	Areas of massive rock and rock outcrops at the heads of canyons.
Coastal rosy boa	<i>Charina trivirgata</i>	FSC	Desert and chaparral areas with dense vegetation and rocky cover.
Mammals			
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	FE, CSC	Narrow coastal plains from the Mexican border to Los Angeles.
San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	CSC/FSC	Intermediate canopy stages of shrub habitats.
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	FE, ST	Grasslands and sparse scrub habitats.
Peninsular bighorn sheep	<i>Ovis Canadensis nelsoni</i>	FE, ST	Open desert slopes below 4,000 feet.
Birds			
California condor (extirpated)	<i>Gymnogyps californianus</i>	FE, SE	Open grasslands and foothill chaparral in mountain ranges.
California black rail (extirpated)	<i>Laterallus jamaicensis coturniculus</i>	ST	Salt marshes bordering larger bays.
Marbled murrelet (only found offshore)	<i>Brachyramphus marmoratus</i>	FT, SE	Feeds near shore and nests inland along the coast.
Coastal cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>	CSC	Sage scrub.
Grasshopper sparrow	<i>Ammodramus savannarum</i>	N/A	Dense grasslands on rolling hills and hillsides on lower mountain slopes.
Burrowing owl	<i>Athene cunicularia</i>	CSC	Open, dry grasslands and agricultural fields.
Golden eagle	<i>Aquila chrysaetos</i>	CSC	Rolling foothills of mountain areas, sage-juniper flats, and deserts.
California spotted owl	<i>Strix occidentalis occidentalis</i>	CSC	Mixed conifer forest.
Bank swallow (formerly bred)	<i>Riparia riparia</i>	ST	Riparian and other lowland habitats west of the desert.
Yellow-breasted chat	<i>Icteria virens</i>	CSC	Riparian thickets near watercourses.

* The County of San Diego is currently in the process of amending the MSCP to include the Quino checkerspot butterfly.

FSC – Federal Species of Concern; FT – Federally Threatened; FE – Federally Endangered; ST – State Threatened; SE – State Endangered; CSC – California Species of Concern; CNPS List 1B – California Native Plant Society List 1B (Plants rare, threatened or endangered in California and elsewhere).