

## APPENDIX I-3

## RESULTS OF CNDDDB SEARCH AND USFWS INFORMATION REQUEST FOR ONTARIO TO SAN DIEGO LONGHAUL ROUTE

Scientific Name / Common Name	Status: USFWS / CDFG / CNPS / Other	Habitat in Project Area	Comments
<b>Invertebrates</b>			
<i>Branchinecta lynchii</i> Vernal Pool Fairy Shrimp	Endangered/ None	Vernal pools and ephemeral waters of swales.	Does not occur within the project right-of-way and would not be impacted by project actions.
<i>Branchinecta sandiegonensis</i> San Diego Fairy Shrimp	Endangered/ None	Vernal pools.	Does not occur within the project right-of-way and would not be impacted by project actions.
<i>Euphydryas editha quino</i> Quino Checkerspot Butterfly	Endangered/ None	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside & San Diego counties. Requires host plants <i>Plantago erecta</i> and <i>Castilleja exserta</i> .	May occur in adjacent habitats and may be impacted during the flight season (February-May) by construction activities.
<i>Pyrgus ruralis lagunae</i> Laguna Mountains skipper	Endangered/ None	<i>Plantago spp</i> including <i>Plantago Erecta</i> are host plans. Usually found between 4000 and 8000 feet above sea level.	Project right-of way outside known range and distribution of this species.
<i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands Flower-Loving Fly	Endangered/ None	Found in areas with fine sandy soils of the Delhi series. Known from 5 locations potentially occurring along the route.	Does occur in habitat adjacent to the project right-of-way, and impacts may occur.
<i>Streptocephalus woottoni</i> Riverside Fairy Shrimp	Endangered, Proposed Critical Habitat/ None	Vernal pools. Known from 5 locations within Riverside County.	Does not occur within the project right-of-way and would not be impacted by project actions.
<b>Fish</b>			
<i>Catostomas santaanae</i> Santa Ana Sucker	Threatened/ None	Occurs in the low and mid Santa Ana River. Prefers pools and runs less than seven meters wide.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Gasterosteus aculeatus williamsoni</i> Unarmored Threespine Stickleback	Endangered/ Endangered	Clear, slow moving streams with sand or mud substrate, abundant aquatic vegetation, 24°C or less. Historically occurred in Santa Ana River. Now known from few streams in San Bernardino and San Diego Counties.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Gila bicolor mahavensis</i> Mojave Tui Chub	Endangered/ Endangered	Occurs in slow moving streams and lakes and is associated with abundant aquatic vegetation.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.

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<i>Gila elegans</i> Bonytail Chub	Endangered, Critical Habitat/ Endangered	Found in mid sized to large rivers. Usually in or near deep swift water, in flowing pools and backwaters over muddy or rocky bottoms.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Gila orcutti</i> Arroyo Chub	Species of Concern/ None/ Species of Concern	Los Angeles basin southern coastal streams.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Onchorynchus mykiss irideus</i> Southern Steelhead- Southern California ESU	Endangered/ None	Relatively small streams with sand berms across the mouth of the stream. Federal listing refers to populations from Santa Monica River south to the southern extent of the range (Malibu Creek).	Project right-of way outside known range and distribution of this species.
<i>Xyrauchen texanus</i> Razorback Sucker	Endangered, Critical Habitat/ Endangered	Slow areas, backwaters, and eddies of medium to large rivers; associated with sand, mud, and rock substrate in areas with sparse aquatic vegetation; restricted to the Colorado River system.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<b>Amphibians</b>			
<i>Ambystoma californiense</i> California Tiger Salamander	Endangered/ None	Federal listing refers to populations in Santa Barbara County only. Need underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding.	Project right-of way outside known range and distribution of this species.
<i>Bufo microscaphus californicus</i> Arroyo Toad	Endangered/ None/ Species of Concern	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Rana aurora draytonii</i> California Red-Legged Frog	Threatened, Proposed Critical Habitat/ None	Inhabits riparian areas near quiet streams, damp woods and meadows. Possibly inhabits ephemeral pools. No known occurrences near project right-of-way.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Scaphiopus hammondii</i> Western Spadefoot	Species of Concern/ None/ Species of Concern	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.

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<i>Charina bottae umbratica</i> Southern Rubber Boa	None/ Threatened	Restricted to San Bernardino and San Jacinto Mountains. Found in a variety of montane forest habitats, in the vicinity of streams or wet meadows.	Project right-of way outside known range and distribution of this species.
<i>Clemmys marmorata pallida</i> Southwestern Pond Turtle	Species of Concern/ None/ Species of Concern	Inhabits permanent or nearly permanent bodies of water in many habitat types; below 6000 ft elev.	May be indirectly impacted in the event of a frac-out during boring activities under major rivers and streams.
<i>Cnemidophorus hyperythrus</i> Orange-Throated Whiptail	Species of Concern/ None/ Species of Concern	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	May occur in habitats and vegetative communities adjacent to right-of-way but impacts are not expected.
<i>Coleonyx Switaki</i> Barefoot Banded Gecko	None/ Threatened	Found only in areas of massive rock and rock outcrops at the heads of canyons.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Crotalus ruber ruber</i> Northern Red-Diamond Rattlesnake	Species of Concern/ None/ Species of Concern	Chaparral, woodland, grassland, & desert areas from coastal San Diego county to the eastern slopes of the mountains.	May occur in habitats and vegetative communities adjacent to right-of-way, but impacts are not expected.
<i>Gopherus agassizii</i> Desert Tortoise	Threatened, Critical Habitat/ Threatened	Warm creosote brush vegetation characteristic of the upper Sonoran life zones of the Mojave, Colorado and Sonoran Deserts.	Project right-of-way outside known range and distribution of this species.
<i>Phrynosoma coronatum blainvillei</i> San Diego Horned Lizard	Species of Concern/ None/ Species of Concern	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate conditions.	May occur in habitats and vegetative communities adjacent to right-of-way, but impacts are not expected.
<i>Uma inornata</i> Coachella Valley Fringe-Toed Lizard	Threatened/ Endangered	Limited to sand dunes in the Coachella Valley, Riverside County. Requires fine, loose, windblown sand interspersed with hardpan and widely spaced desert shrubs..	Project right-of-way outside known range and distribution of this species.
<b>Birds</b>			
<i>Aimophila ruficeps canescens</i> Southern California Rufous-Crowned Sparrow	Species of Concern/ None/ Species of Concern	Resident in southern California coastal sage scrub and sparse mixed chaparral.	May occur in habitats adjacent to the project right-of-way and may be impacted during nesting season by construction activities.

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<i>Aquila chrysaetos</i> (nesting and wintering) Golden Eagle	None/ None/ Species of Concern	Rolling foothill or coast-range terrain, where open grassland turns to scattered oaks, sycamores, or large digger pines.	Does not occur within the project right-of-way and would not be impacted by project actions.
<i>Athene cunicularia</i> (burrow sites) Burrowing Owl	Species of Concern/ None/ Species of Concern	Found in open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation.	May occur in habitats adjacent to the project right-of-way and may be impacted during nesting season by construction activities.
<i>Buteo swainsoni</i> Swainson's Hawk	None/ Threatened	Breeds in strands with few trees in juniper-sage flats, riparian areas and in oak savannah.	Project right-of-way outside known range and distribution of this species.
<i>Campylorhynchus brunneicapillus couesi</i> Coastal Cactus Wren	None/ None/ Species of Concern	Southern California coastal sage scrub.	May occur in habitats adjacent to the project right-of-way and may be impacted during nesting season by construction activities.
<i>Charadrius alexandrinus nivosus</i> (nesting) Western Snowy Plover	Threatened/ None/ Species of Concern	Sandy beaches on marine and estuarine shores, also salt pond levees and the shores of large alkali lakes.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Charadrius montanus</i> Mountain Plover	Proposed Threatened/ None	Winter range is in Southern California. Short grass plains and fields, plowed fields, sandy deserts, and alkali flats.	Project right-of-way outside known range and distribution of this species.
<i>Coccyzus americanus occidentalis</i> (nesting) Western Yellow-Billed Cuckoo	None/ Endangered	Riparian forest nester; along the broad, lower flood-bottoms of larger river systems.	May occur in habitats adjacent to the project right-of-way and may be impacted during nesting season by construction activities.
<i>Colaptes chrysoides</i> Gilded Flicker	None/ Endangered	Sonoran desert habitat and riparian woodlands along the Colorado River. Uses willow, cottonwood, tree yucca, and when available, saguaro cactus.	Project right-of-way outside known range and distribution of this species.
<i>Empidonax traillii eximus</i> Southwestern Willow Flycatcher	Endangered, Critical Habitat/ Endangered	Riparian forest nester. Swampy thickets, willow, buttonbush, tamarisk. Prefers vegetation 4-7 meters high.	May occur in habitats adjacent to the project right-of-way and may be impacted during nesting season by construction activities.
<i>Eremophila alpestris actia</i> California Horned Lark	None/ None/ Species of Concern	Coastal regions, chiefly from Sonoma co. to San Diego Co. also main part of San Joaquin valley & east to foothills.	Project right-of-way outside known range and distribution of this species.

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<i>Haliaeetus leucocephalus</i> Bald Eagle	Threatened/ Endangered	Breeding habitat close to coastal areas, bays, rivers and lakes. Nests in tall trees.	Project would have no effect due to the occasional transitory use of project area and lack of suitable habitat.
<i>Icteria virens</i> (nesting) Yellow-Breasted Chat	None/ None/ Species of Concern	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	May occur in adjacent habitats and may be impacted during nesting season by construction activities.
<i>Laterallus jamaicensis coturniculus</i> California Black Rail	None/ Threatened	Mainly inhabits salt marshes bordering larger bays. Occurs in tidal salt marsh heavily grown to pickleweed; also in freshwater and brackish marshes all at low elevation.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Melanerpes uropygialis</i> Gila Woodpecker	None/ Endangered	Inhabits cottonwoods and other desert riparian trees, shade trees and date palms as a cavity nester.	May occur in adjacent habitats and may be impacted during nesting season by construction activities.
<i>Micrathene whitneyi</i> Elf Owl	None/ Endangered	Nests in <i>Populus-Salix-Prosopis</i> riparian forests. Known from 10 sites along the lower Colorado River.	Project right-of-way outside known range and distribution of this species.
<i>Passerculus sandwichensis beldingi</i> Beldings Savannah Sparrow	None/ Endangered	Inhabits coastal salt marshes from Santa Barbara south through to San Diego County. Nests in <i>Salicornia</i> on and about margins of tidal flats.	Project right-of-way outside known range and distribution of this species.
<i>Polioptila californica californica</i> Coastal California gnatcatcher	Threatened, Critical Habitat/ None	Nests in shrubs in dry coastal slopes, washes and mesas. Areas of low plant growth.	May occur in adjacent habitats and may be impacted during nesting season by construction activities.
<i>Polioptila californica</i> California Gnatcatcher	Threatened/ None/ Species of Concern	Obligate, permanent resident of coastal sage scrub below 2500 ft in southern California.	May occur in adjacent habitats and may be impacted during nesting season by construction activities.
<i>Rallus longirostris levipes</i> Light-Footed Clapper Rail	Endangered/ Endangered	Nests in coastal marshes dominated by cordgrass and pickleweed.	Project right-of-way outside known range and distribution of this species.
<i>Rallus longirostris yumanensis</i> Yuma clapper rail	Endangered/ Threatened	Nests along lower Colorado River. Freshwater marshes containing dense stands of cattails. Prefers mature stands along margins of shallow ponds with stable water levels.	Project right-of-way outside known range and distribution of this species.

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<i>Riparia riparia</i> Bank Swallow	None/ Threatened	Colonial nesters primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Project right-of-way outside known range and distribution of this species.
<i>Vireo bellii arizonae</i> Arizona Bell's Vireo	None/ Endangered	Chiefly inhabits willow thickets with an undergrowth of <i>Baccharis glutinosa</i> . Nests in willow, mesquite, or other small tree/shrub within 8 ft of ground. Known only from Colorado River in Riverside County.	Project right-of-way outside known range and distribution of this species.
<i>Vireo bellii pusillus (nesting)</i> Least Bell's Vireo	Endangered/ Endangered	Summer resident of southern California inhabits low riparian growth in vicinity of water or in dry river bottoms; below 2000 feet.	May occur in adjacent habitats and may be impacted during nesting season by construction activities.
<b>Mammals</b>			
<i>Dipodomys merriami parvus</i> San Bernardino Kangaroo Rat	Endangered/ None	Santa Ana River wash. Alluvial sage scrub on alluvial fans, floodplains, along washes and adjacent upland areas.	Project right-of-way outside known range and distribution of this species.
<i>Dipodomys stephensi</i> Stephens' Kangaroo Rat	Endangered/ Threatened	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Lepus californicus bennettii</i> San Diego Black-Tailed Jackrabbit	Species of Concern/ None/ Species of Concern	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Neotoma lepida intermedia</i> San Diego Desert Woodrat	Species of Concern/ None/ Species of Concern	Coastal southern California from San Diego county to San Luis Obispo county.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Ovis Canadensis cremnobates</i> Peninsular Bighorn Sheep	Endangered, Proposed Critical Habitat/ Threatened	San Jacinto Mountains.	Project right-of-way outside known range and distribution of this species.
<i>Perognathus longimembris pacificus</i> Pacific Pocket Mouse	Endangered/ None	Coastal sage scrub communities with firm, sandy soil in immediate vicinity of the ocean.	Not expected to occur along right-of-way due to lack of suitable habitat.

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<i>Spermophilus mohavensis</i> Mohave Ground Squirrel	None/ Threatened	Open desert scrub, alkali scrub and Joshua Tree woodland. Also feeds in annual grasslands. Restricted to Mohave Desert.	Project right-of-way outside known range and distribution of this species.
<b>Plants</b>			
<i>Acanthomintha ilcifolia</i> San Diego Thorn Mint	Threatened/ Endangered/ 1B	Vernal pools, coastal scrub, valley and foothill grassland, chaparral with heavy clay soils.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Adolphia californica</i> California Adolphia	None/ None/ 2	Chaparral, coastal sage scrub, valley and foothill grassland. Known from only Baja California and San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Allium munzii</i> Munz's Onion	Endangered/ Threatened/ 1B	Chaparral, coastal scrub, cismontane woodland, pinyon-juniper woodland, valley and foothill grassland. Found only in Riverside County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Ambrosia pumilla</i> San Diego Ambrosia	Proposed Endangered/ None/ 1B	Vernal pools, coastal scrub, valley and foothill grassland, chaparral.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Arctostaphylos glandulosa ssp crassifolia</i> Del Mar Manzanita	Endangered/ None/ 1B	Chaparral, closed-cone coniferous forest. in California, only in San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Arctostaphylos rainbowensis</i> Rainbow Manzanita	None/ None/ 1B	Chaparral. Previously called <i>A. peninsularis</i> or considered a hybrid between <i>A. glandulosa</i> & <i>A. glauca</i> .	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Arenaria Paludicola</i> Marsh Sandwort	Endangered/ Endangered/ 1B	Freshwater wetlands, saturated, acidic soils.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Arenaria Ursina</i> Big Bear Valley Sandwort	Endangered/ Endangered/ 1B	Pinyon-juniper woodland, pebble plain. Occurs in rocky soil under moist conditions.	Project right-of-way outside known range and distribution of this species.
<i>Artemisia palmeri</i> San Diego Sagewort	None/ None/ 2	Coastal scrub, chaparral, riparian forest, riparian woodland. Known only from Baja California and San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.

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<i>Astragalus albens</i> Cushenberry Milk-Vetch	Endangered/ None/1B	Joshua tree woodland, pinyon-juniper woodland on granitic carbonate substrate. Known only to occur in the San Bernardino Mountains.	Project right-of-way outside known range and distribution of this species.
<i>Astragalus brauntonii</i> Braunton's Milk-Vetch	Endangered/ None/ 1B	Chaparral, valley grassland and coastal sage scrub. Found on rocky outcrops in carbonate substrate.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Astragalus jaegerianus</i> Lane Mountain Milk-Vetch	Endangered/ None/ 1B	Creosote bush scrub, Joshua tree woodland in sandy, gravelly soil on granitic substrate	Project right-of-way outside known range and distribution of this species.
<i>Astragalus lentigenosus var coachellae</i> Coachella Valley Milk-Vetch	Endangered/ None/ 1B	Creosote bush scrub. Occurs in sandy soil.	Project right-of-way outside known range and distribution of this species.
<i>Astragalus magdalenae var peirsonii</i> Peirson's Milk Vetch	Threatened/ Endangered/ 1B	Desert dunes. Occurs in dune habitats.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Astragalus pachypus var jaegeri</i> Jaeger's Milk-Vetch	Species of Concern/ None / 1B	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland. Endemic to Riverside county.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Astragalus tener var titi</i> Coastal Dunes Milk Vetch	Endangered/ Endangered/ 1B	Coastal strand, Northern coastal scrub, coastal sage scrub.	Project right-of-way outside known range and distribution of this species.
<i>Astragalus tricarinatus</i> Triple Ribbed Milk-Vetch	Endangered/ None/ 1B	Creosote bush scrub, Joshua Tree woodland. Occurs in sandy, gravelly soil in dune and coastal habitats. Known from four locations near Whitewater and Morongo Valley.	Project right-of-way outside known range and distribution of this species.
<i>Atriplex coronata var. notatoir</i> San Jacinto Valley Crownscale	Endangered/ None/ 1B	Vernal pools in alkaline soil. Known from one population in the San Jacinto valley.	Project right-of-way outside known range and distribution of this species.
<i>Baccharis vanessae</i> Encinitas Baccharis	Threatened/ Endangered/ 1B	Chaparral. Endemic to San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Berberis nevinii</i> Nevin's Barberry	Endangered/ Endangered/ 1B	Chaparral, foothill woodland, coastal sage scrub, riparian scrub. Sandy soil	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.



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<i>Brodiaea filifolia</i> Thread-leaved brodiaea	Threatened/ Endangered/ 1B	Vernal pools, valley grassland, foothill woodland, coastal sage scrub in clay soils.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Brodiaea orcuttii</i> Orcutt's Brodiaea	Species of Concern/ None/ 1B	Vernal pools, valley and foothill grassland, closed-cone coniferous forest, cismontane woodland, chaparral, meadows.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Calochortus dunnii</i> Dunn's Mariposa Lily	None/ Rare/ 1B	Chaparral, closed-cone pine forest. Occurs in volcanic gabbroic substrate.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Castilleja cinerea</i> Ash-Gray Indian Paintbrush	Threatened/ None/ 1B	Creosote bush scrub, pinyon-juniper woodland, red fir forest, pebble plain, meadows and seeps. Occurs in clay soil in meadow and opening habitats.	Project right-of-way outside known range and distribution of this species.
<i>Ceanothus ophiochilus</i> Vail Lake Ceanothus	Threatened/ Endangered/ 1B	Chaparral, dry ridge-tops in nutrient poor gabbro soil. Only 3 extant populations known to exist.	Project right-of-way outside known range and distribution of this species.
<i>Ceanothus verrucosus</i> Wart-Stemmed Ceanothus	Species of Concern/ None/ 2	Chaparral. in California, known only from San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Chorizanthe orcuttiana</i> Orcutt's Spineflower	Endangered/ Endangered/ 1B	Chaparral, coastal sage scrub, closed cone pine forests in open areas with sandy soils. Known from only one park in San Diego County	Project right-of-way outside known range and distribution of this species.
<i>Chorizanthe polygonoides var longispina</i> Long-Spined Spineflower	Species of Concern/ None/ 1B	Chaparral, coastal scrub, meadows, valley and foothill grassland.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Comarostaphylis diversifolia ssp diversifolia</i> Summer Holly	Species of Concern/ None/ 1B	Chaparral in southern California and Baja California.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Cordylanthus maitimus ssp maritimus</i> Salt Marsh Bird's Beak	Endangered/ Endangered/ 1B	Coastal strand, coastal salt marsh. Occurs in salt marsh, dune and coastal habitats.	Not expected to occur along right-of-way due to lack of suitable habitat.

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<i>Deinandra conjugens</i> ( <i>Hemizonia conjugens</i> ) Otay Tarplant	Threatened/ Endangered/ 1B	Valley grasslands, coastal sage scrub. Occurs in clay soil.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Deinandra mohavensis</i> ( <i>Hemizonia mohavensis</i> ) Mojave Tarplant	None/ Endangered/ 1A	Riparian scrub. Occurs in riparian habitats. Last seen in 1933; presumed extinct.	Project right-of-way outside known range and distribution of this species.
<i>Delphinium hesperium ssp cuyamaca</i> Cuyamaca Larkspur	None/ Rare/ 1B	Yellow pine forest, meadows and seeps. Occurs in moist meadow conditions in meadow habitats.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Dodecahema leptoceras</i> Slender-Horned Spineflower	Endangered/ Endangered/ 1B	Chaparral, coastal scrub (alluvial fan sage scrub). Historically from L.A River, and San Bernardino Counties. Extirpated from much of its former range.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Downingia concolor var brevior</i> Cuyamaca Lake Downingia	None/ Endangered/ 1B	Vernal pools, meadows and seeps. Occurs under moist conditions in meadow and vernal pool habitats. Known from only seven occurrences in Cuyumaca Lake area.	Project right-of-way outside known range and distribution of this species.
<i>Dudleya blochmaniae ssp brevifolia</i> Short- Leaved Dudleya	Proposed Endangered/ Endangered/ 1B	Chaparral, coastal sage scrub on sedimentary sandstone substrate in opening and coastal habitats. Known from fewer than five occurrences in Del Mar and La Jolla areas.	Project right-of-way outside known range and distribution of this species.
<i>Dudleya multicaulis</i> Many-Stemmed Dudleya	Species of Concern/ None/ 1B	Chaparral, coastal scrub, valley and foothill grassland. endemic to southern California.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Dudleya variegata</i> Variegated Dudleya	Species of Concern/ None/ 1B	Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland, vernal pools. In California, only in San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Eriastrum densifolium ssp. sanctorum</i> Santa Ana River Woolly-Star	Endangered/ Endangered/ 1B	Chaparral, coastal sage scrub in gravelly riverbeds.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.

## APPENDIX I-3

## RESULTS OF CNDDDB SEARCH AND USFWS INFORMATION REQUEST FOR ONTARIO TO SAN DIEGO LONGHAUL ROUTE

Scientific Name / Common Name	Status: USFWS / CDFG / CNPS / Other	Habitat in Project Area	Comments
<i>Erigeron parishii</i> Parish's Daisy	Threatened/ None/ 1B	Creosote bush scrub, pinyon-juniper woodland on carbonate substrate. Known only to occur in the San Bernardino Mountains.	Project area outside known distribution of this species.
<i>Erigonum ericifolium var thornei</i> Thorne's Buckwheat	None/ Endangered/ 1B	Pinyon-juniper pine woodland.	Project right-of-way outside known range and distribution of this species.
<i>Erigonum Kennedyi var austromontanum</i> Southern Mountain Buckwheat	Threatened/ None/ 1B	Yellow pine forest, alpine fell-fields, sagebrush scrub, pinyon-juniper woodland. Occurs in rocky soil under dry conditions in slope habitats between 4921-8530 ft.	Project area outside known distribution of this species.
<i>Eriogonum ovalifolium var. vineum</i> Cushenbury Buckwheat	Endangered/ None/ 1B	Creosote bush scrub, pinyon-juniper woodland on carbonate substrate. Known to occur only in the San Bernardino Mountains.	Project area outside known distribution of this species.
<i>Eryngium aristulatum var parishii</i> San Diego Button Celery	Endangered/ Endangered/ 1B	Vernal pools, coastal scrub, valley and foothill grassland. in California, known only from Riverside & San Diego counties.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Fremontodendron mexicanum</i> Mexican Flannelbush	Endangered/ Rare/ 1B	Chaparral, foothill woodland, closed-cone pine forest. Occurs in serpentine volcanic gabbroic substrate. Known from fewer than twenty occurrences.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Ferocactus viridescens</i> San Diego Barrel Cactus	Species of Concern/ None/ 2	Chaparral, Diegan coastal scrub, valley and foothill grassland. in California, known only from San Diego County.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Gallium angustifolium ssp borregoense</i> Borrego Bedstraw	None/ Rare/ 1B	Creosote bush scrub. Occurs in rocky soil. Known from fewer than ten occurrences.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Harpagonella palmeri</i> Palmer's Grapplinghook	Species of Concern/ None/ 2	Chaparral, coastal scrub, valley and foothill grassland.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Hazardia orcuttii</i> Orcutt's Hazardia	None/ Candidate/ 1B	Chaparral, coastal sage scrub. Occurs in clay soil. Known from only one location in Lux Canyon.	Project right-of-way outside known range and distribution of this species.

**APPENDIX I-3**

**RESULTS OF CNDDDB SEARCH AND USFWS INFORMATION REQUEST FOR ONTARIO TO SAN DIEGO LONGHAUL ROUTE**

<b>Scientific Name / Common Name</b>	<b>Status: USFWS / CDFG / CNPS / Other</b>	<b>Habitat in Project Area</b>	<b>Comments</b>
<i>Hemizonia parryi ssp australis</i> Southern Tarplant	Species of Concern/ None/ 1B	Marshes and swamps (margins), valley and foothill grassland, vernal pools. From southern California and Baja California	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Hemizonia pungens ssp laevis</i> Smooth Tarplant	Species of Concern/ None/ 1B	Valley and foothill grassland, chenopod scrub, meadows, playas, riparian woodland.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Lesquerella kingii ssp bernardina</i> San Bernardino Mountains Bladderpod	Endangered/ None/ 1B	Yellow pine forest, pinyon-juniper woodland. Occurs in carbonic substrate. Known from only five occurrences in Big Bear Valley	Project right-of-way outside known range and distribution of this species.
<i>Limnanthes gracilis ssp parishii</i> Parish's Meadowfoam	None/ Endangered/ 1B	Vernal pools in meadows. Seasonally flooded wetlands, stream edges.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Lasthenia glabrata ssp coulteri</i> Coulter's Goldfields	Species of Concern/ None/ 1B	Coastal salt marshes, playas, valley and foothill grassland, vernal pools.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Machaeranthera asteroides var lagunensis</i> Mount Laguna Aster	None/ Rare/ 2	Yellow pine forest and foothill woodland Between 0 and 7874 ft. Known from only five occurrences in the Wooded Hill area of Mount Laguna.	Project right-of-way outside known range and distribution of this species.
<i>Monardella linoides ssp viminea</i> Willow Monardella	Endangered/ Endangered/ 1B	Riparian scrub, riparian woodland, riparian forest, closed-cone coniferous forest, chaparral. Known only from San Diego County and Baja California.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Muilla clevelandii</i> San Diego Goldenstar	Species of Concern/ None/ 1B	Chaparral, coastal scrub, valley and foothill grassland, vernal pools. Known only from San Diego County and Baja California.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Navarretia fossalis</i> Spreading Navarretia	Threatened/ None/ 1B	Vernal pools, chenopod scrub, marshes, swamps, and playas. In California, known only from Riverside and San Diego Counties.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Nolina interrata</i> Dehesa Nolina	None/ Endangered/1B	Chaparral. Occurs in serpentine volcanic gabbroic substrate. Known from only 10 occurrences.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.

## APPENDIX I-3

## RESULTS OF CNDDDB SEARCH AND USFWS INFORMATION REQUEST FOR ONTARIO TO SAN DIEGO LONGHAUL ROUTE

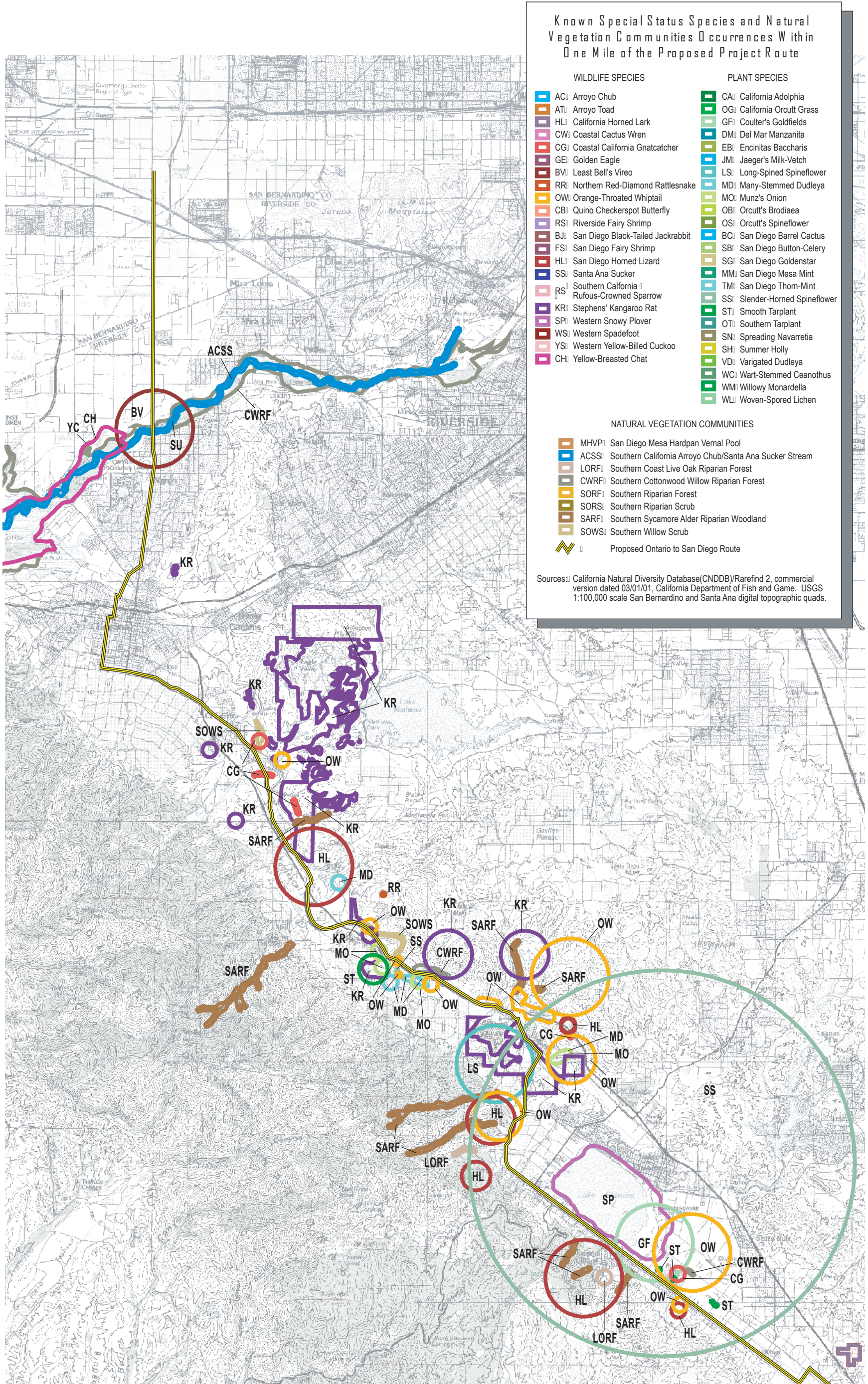
Scientific Name / Common Name	Status: USFWS / CDFG / CNPS / Other	Habitat in Project Area	Comments
<i>Orcuttia californica</i> California Orcutt Grass	Endangered/ Endangered/ 1B	Vernal pools. Known only from southern California and Baja California.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Ornithostaphylos oppositifolia</i> Baja California Birdbush	None/ Endangeres/ 2	Chaparral. Known from only one occurrence west of San Ysidro near the Mexican Border.	Project right-of-way outside known range and distribution of this species.
<i>Oxytheca parishii var goodmaniana</i> Cushenbury Oxytheca	Endangered/ None	Pinyon-juniper woodland. Occurs in carbonate substrate.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Poa atropurpurea</i> San Bernardino Blue Grass	Endangered/ None/ 1B	Meadows and seeps. Occurs in carbonate substrate.	Project area outside known distribution of this species.
<i>Pogogyne abramsii</i> San Diego Mesa Mint	Endangered/ Endangered/ 1B	Vernal pools. Endemic to San Diego County.	Does not occur within the project ROW and would not be impacted by project actions.
<i>Pogogyne nudiuscula</i> Otay Mesa Mint	Endangered/ Endangered/1B	Vernal pools. Known only from Baja California and San Diego County. Known from only six occurrences in Otay Mesa.	Project right-of-way outside known range and distribution of this species.
<i>Rorippa gambelii</i> Gambel's Water Cress	Endangered/ Threatened/ 1B	Freshwater wetlands, coastal sage scrub, chaparral, brackish marsh. Known from only one or two extant occurrences.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Rosa minutifolia</i> Small-Leaved Rose	None/ Endangered/ 2	Chaparral. Known from only one occurrence in Otay Mesa.	Project right-of-way outside known range and distribution of this species.
<i>Senecio ganderi</i> Gander's Ragwort	None/ Rare/ 1B	Chaparral on gabbroic outcrops; burned areas. Known from fewer than fifteen locations in San Diego and Riverside Counties.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Sidalcea hickmanii ssp parishii</i> Parish's Checkerbloom	Candidate/ Rare/ 1B	Chaparral, yellow pine forest. Between 164-7217 ft.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Sidalcea pedata</i> Bird-Foot Checkerbloom	Endangered/ Endangered/ 1B	Pebble plain, meadows and seeps. Occurs under moist conditions in meadow habitats. Known from only ten occurrences.	Not expected to occur along right-of-way due to lack of suitable habitat.

**APPENDIX I-3**

RESULTS OF CNDDDB SEARCH AND USFWS INFORMATION REQUEST FOR ONTARIO TO SAN DIEGO LONGHAUL ROUTE

Scientific Name / Common Name	Status: USFWS / CDFG / CNPS / Other	Habitat in Project Area	Comments
<i>Stylocline citroleum</i> Oil Neststraw	Species of Concern/ None/ 1B	Chenopod scrub, coastal scrub.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Taraxacum californicum</i> California Dandelion	Endangered/ None/ 1B	Meadows and seeps. Occurs in moist conditions in meadow habitats. Usually occurs in wetlands.	Project area outside known distribution of this species.
<i>Tetracoccus dioicus</i> Parry's Tetracoccus	Species of Concern/ None/ 1B	Chaparral, coastal scrub.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Texosporium sancti-jacobi</i> Woven-Spored Lichen	Species of Concern/ None	Chaparral.	May occur in habitats and vegetative communities adjacent to project right-of-way, but impacts are not expected.
<i>Thelypodium stenopetalum</i> Slender-Petaled Thelypodium	Endangered/ Endangered/ 1B	Meadows and seeps. Occurs in alkaline soil on alkaline substrate under moist conditions in meadow habitats. Known from only eight occurrences.	Not expected to occur along right-of-way due to lack of suitable habitat.
<i>Trichostema austromontanum ssp compactum</i> Hidden Lake Bluecurls	Threatened/ None	Lodgepole forest, red fir forest, closed pine forest. Occurs in lake-margin and edge habitats. Known only from Hidden Lake in San Jacinto mountains.	Project area outside known distribution of this species.

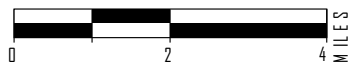




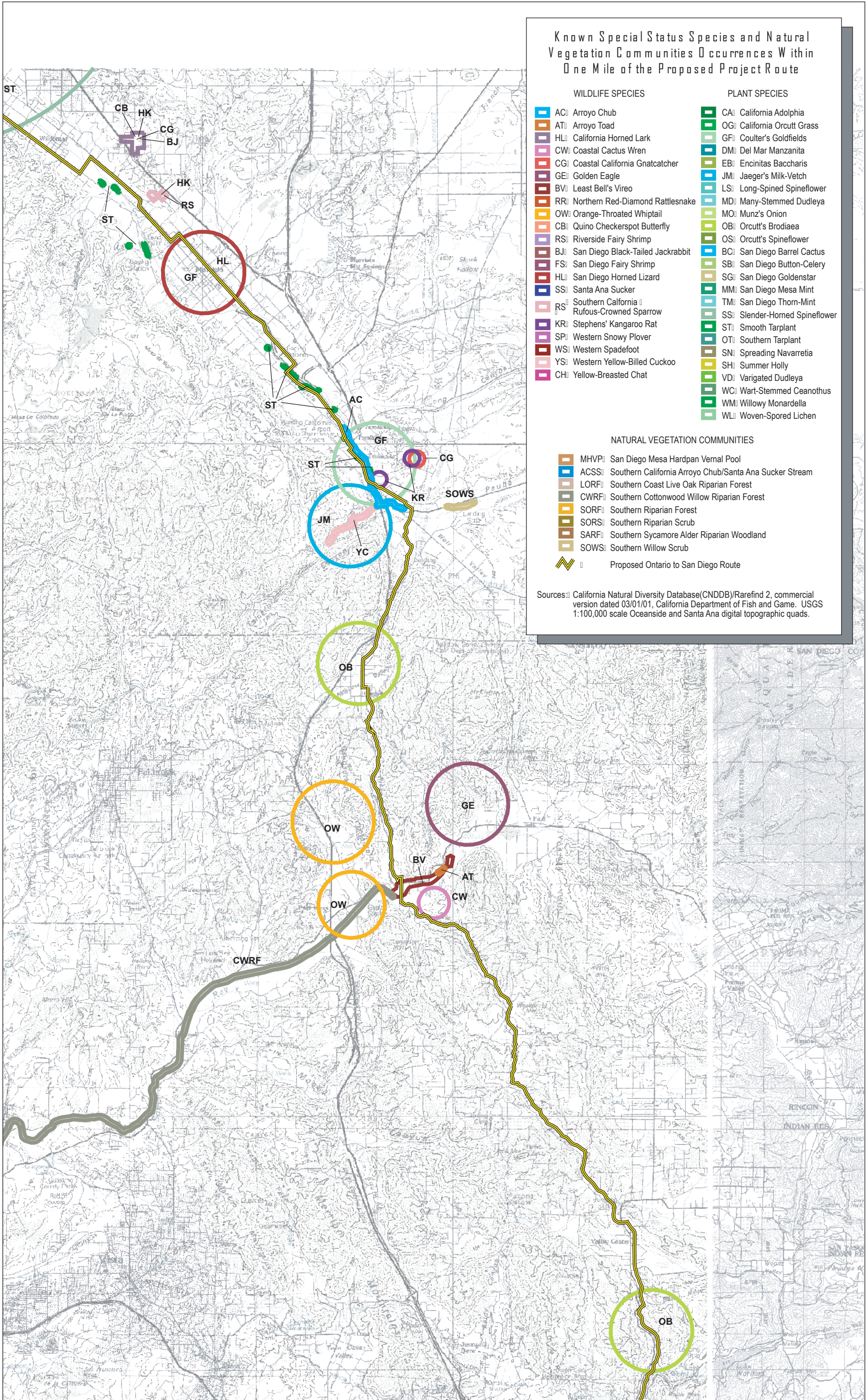
Source: North State Resources, Inc.

**Proposed Ontario to San Diego Route  
Known Special Status Species and Natural Vegetation Communities**

FIGURE | 4a







Source: North State Resources, Inc.

**Proposed Ontario to San Diego Route  
Known Special Status Species and Natural Vegetation Communities**

FIGURE | 4b



Known Special Status Species and Natural Vegetation Communities Occurrences Within One Mile of the Proposed Project Route

WILDLIFE SPECIES

- AC: Arroyo Chub
- AT: Arroyo Toad
- HL: California Horned Lark
- CW: Coastal Cactus Wren
- CG: Coastal California Gnatcatcher
- GE: Golden Eagle
- BV: Least Bell's Vireo
- RR: Northern Red-Diamond Rattlesnake
- OW: Orange-Throated Whiptail
- CB: Quino Checkerspot Butterfly
- RS: Riverside Fairy Shrimp
- BJ: San Diego Black-Tailed Jackrabbit
- FS: San Diego Fairy Shrimp
- HL: San Diego Horned Lizard
- SS: Santa Ana Sucker
- RS: Southern California Rufous-Crowned Sparrow
- KR: Stephens' Kangaroo Rat
- SP: Western Snowy Plover
- WS: Western Spadefoot
- YS: Western Yellow-Billed Cuckoo
- CH: Yellow-Breasted Chat

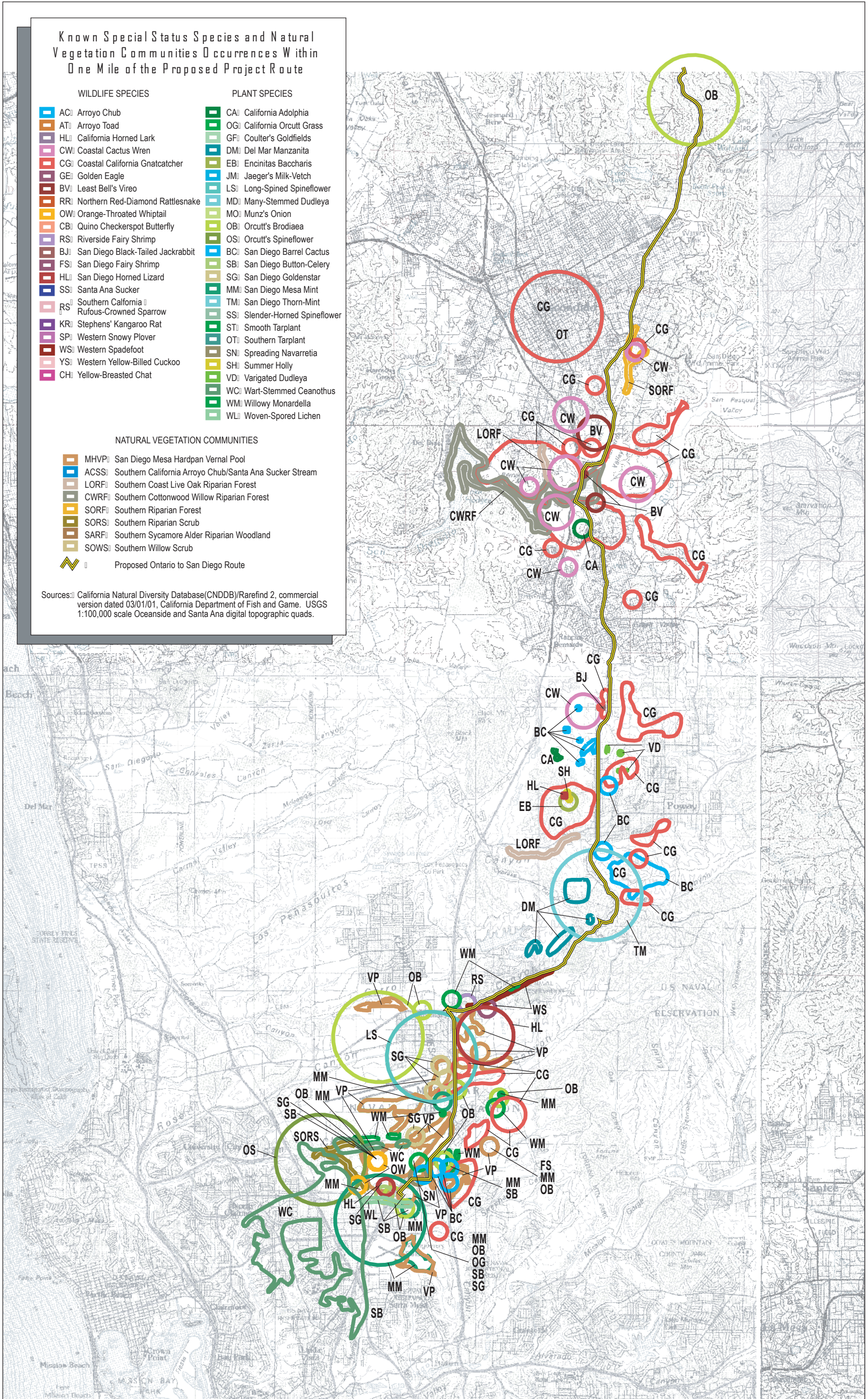
PLANT SPECIES

- CA: California Adolphia
- OG: California Orcutt Grass
- GF: Coulter's Goldfields
- DM: Del Mar Manzanita
- EB: Encinitas Baccharis
- JM: Jaeger's Milk-Vetch
- LS: Long-Spined Spineflower
- MD: Many-Stemmed Dudleya
- MO: Munz's Onion
- OB: Orcutt's Brodiaea
- OS: Orcutt's Spineflower
- BC: San Diego Barrel Cactus
- SB: San Diego Button-Celery
- SG: San Diego Goldenstar
- MM: San Diego Mesa Mint
- TM: San Diego Thorn-Mint
- SS: Slender-Horned Spineflower
- ST: Smooth Tarplant
- OT: Southern Tarplant
- SN: Spreading Navarretia
- SH: Summer Holly
- VD: Varigated Dudleya
- WC: Wart-Stemmed Ceanothus
- WM: Willowy Monardella
- WL: Woven-Spored Lichen

NATURAL VEGETATION COMMUNITIES

- MHVP: San Diego Mesa Hardpan Vernal Pool
- ACSS: Southern California Arroyo Chub/Santa Ana Sucker Stream
- LORF: Southern Coast Live Oak Riparian Forest
- CWRF: Southern Cottonwood Willow Riparian Forest
- SORF: Southern Riparian Forest
- SORS: Southern Riparian Scrub
- SARF: Southern Sycamore Alder Riparian Woodland
- SOWS: Southern Willow Scrub
- Proposed Ontario to San Diego Route

Sources: California Natural Diversity Database (CNDDDB)/Rarefind 2, commercial version dated 03/01/01, California Department of Fish and Game. USGS 1:100,000 scale Oceanside and Santa Ana digital topographic quads.



Source: North State Resources, Inc.

Proposed Ontario to San Diego Route  
Known Special Status Species and Natural Vegetation Communities

FIGURE | 4 c