

Appendix B
Biological Resources

Appendix ", CNDDDB Records for Special-status Plants and Wildlife within a 5-mile buffer of the Project Area

Scientific Name	Common Name	Fed	State	CDFG	CNPS	Habitat Characteristics	Potential for Occurrence
Amphibians							
<i>Rana draytonii</i>	California red-legged frog	T	-	SCC	-	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent vegetation	No suitable habitat along any alternative to support this species.
Birds							
<i>Laterallus jamaicensis coturniculus</i>	California black rail	-	T/FP	-	-	Inhabits the margins of salt, brackish and freshwater marshes	No suitable breeding habitat along any alternative to support this species.
<i>Phalacrocorax auritus</i>	Double-crested cormorant	-	-	-	-	Colonial nester on coastal cliffs, offshore islands & along lake margins in the interior of the state	No suitable breeding habitat along any alternative to support this species, though cormorant forage in the area.
Invertebrates							
<i>Callophrys mossii bayensis</i>	San Bruno elfin butterfly	E	-	-	-	Coastal mountainous areas with grassy ground cover, mainly in the vicinity of San Bruno Mountain	No suitable habitat along any alternative to support this species.
<i>Cicindela hirticollis gravid</i>	Sandy beach tiger beetle	-	-	-	-	Inhabits areas adjacent to non-brackish water along the coast of California	No suitable habitat along any alternative to support this species.
<i>Danaus plexippus</i>	Monarch butterfly	-	-	-	-	Winter roosts in Eucalyptus, pine and Monterey Cypress trees	No suitable habitat along any alternative to support this species.
<i>Dufuorea stagei</i>	Stage's dufourine bee	-	-	-	-	Species is a ground-nesting bee	No suitable habitat along any alternative to support this species.
<i>Euphydryas editha bayensis</i>	Bay checkerspot butterfly	T	-	-	-	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay	No suitable habitat along any alternative to support this species.
<i>Ischnura gemina</i>	San Francisco forktail damselfly	-	-	-	-	Endemic to the San Francisco Bay Area	No suitable habitat along any alternative to support this species.
<i>Plebejus icarioides missionensis</i>	Mission blue butterfly	E	-	-	-	Inhabits grasslands of the San Francisco peninsula	No suitable habitat along any alternative to support this species.
<i>Speyeria callippe callippe</i>	Callippe silverspot butterfly	E	-	-	-	Restricted to the northern coastal scrub of the San Francisco peninsula	No suitable habitat along any alternative to support this species.

Scientific Name	Common Name	Fed	State	CDFG	CNPS	Habitat Characteristics	Potential for Occurrence
Mammals							
<i>Lasiurus blossevillii</i>	Western red bat	-	-	SCC	-	Roosts primarily in trees, 2-40ft above ground	Suitable habitat for this species may exist along project alternatives in abandoned buildings or trees
<i>Lasiurus cinereus</i>	Hoary bat	-	-	-	-	Prefers open habitats or habitat mosaics, with access to trees for cover & open areas or habitat edges for feeding	Suitable habitat for this species may exist along project alternatives in abandoned buildings or trees
<i>Taxidea Taxus</i>	American Badger	-	-	SCC	-	Most abundant in drier open stages of moist shrub, forest and herbaceous habitats with friable soils	No suitable habitat along any alternative to support this species.
Plants							
<i>Arctostaphylos franciscana</i>	Franciscan manzanita	-	-	-	1B.1	Chaparral	No suitable habitat along any alternative to support this species.
<i>Arctostaphylos imbricate</i>	San Bruno Mountain Manzanita	-	E	-	1B.1	Chaparral, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Arctostaphylos mantana ssp. Ravenii</i>	Presidio Manzanita	E	E	-	1B.1	Chaparral, coastal prairie, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Arenaria paludicola</i>	Marsh sandwort	E	E	-	1B.1	Marshes and swamps	No suitable habitat along any alternative to support this species.
<i>Astragalus tener var. tener</i>	Alkali milk-vetch	-	-	-	1B.2	Alkali playa, valley and foothill grassland, vernal pools	No suitable habitat along any alternative to support this species.
<i>Carex comosa</i>	Bristly sedge	-	-	-	S2	Marshes and swamps	No suitable habitat along any alternative to support this species.
<i>Chloropyron maritimum ssp. Palustre</i>	Point Reyes bird's-beak	-	-	-	1B.2	Coastal Salt Marsh	No suitable habitat along any alternative to support this species.
<i>Chorizanthe cuspidate var. cuspidate</i>	San Francisco Bay spineflower	-	-	-	1B.2	Coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Chorizanthe robusta var. robusta</i>	Robust spineflower	E	-	-	1B.1	Cismontane woodland, coastal dunes, coastal scrub	No suitable habitat along any alternative to support this species.

Scientific Name	Common Name	Fed	State	CDFG	CNPS	Habitat Characteristics	Potential for Occurrence
<i>Cirsium andrewsii</i>	Franciscan thistle	-	-	-	1B.2	Coastal bluff scrub, broadleaved upland forest, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Cirsium occidentale</i> var. <i>compactum</i>	Compact cobwebby thistle	-	-	-	1B.2	Chaparral coastal dunes coastal prairie coastal	No suitable habitat along any alternative to support this species.
<i>Clarkia franciscana</i>	Presidio clarkia	E	E	-	1B.1	Coastal scrub, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Collinsia corymbosa</i>	Round-headed Chinese-houses	-	-	-	1B.2	Coastal dunes, coastal prairie	No suitable habitat along any alternative to support this species.
<i>Collinsia multicolor</i>	San Francisco collinsia	-	-	-	1B.2	Closed-cone coniferous forest, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Fritillaria liliacea</i>	Fragrant fritillary	-	-	-	1B.2	Coastal scrub, valley and foothill grassland, coastal prairie	No suitable habitat along any alternative to support this species.
<i>Gilia capitata</i> spp. <i>chamissonis</i>	Blue coast gilia	-	-	-	1B.1	Coastal dunes, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Gilia millefoliata</i>	Dark-eyed gilia	-	-	-	1B.2	Coastal dunes	No suitable habitat along any alternative to support this species.
<i>Grindelia hirsutula</i> var. <i>maritime</i>	San Francisco gumplant	-	-	-	S1	Coastal scrub, coastal bluff scrub, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Helianthella castanea</i>	Diablo helianthella	-	-	-	1B.2	Chaparral/oak woodland interface in rocky azonal soils, broadleaved upland forest, coastal scrub, riparian woodland, valley and foothill grassland.	No suitable habitat along any alternative to support this species.
<i>Hemizonia congesta</i> ssp. <i>Congesta</i>	Seaside tarplant	-	-	-	1B.2	Coastal scrub, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Hespererax sparsiflora</i> var. <i>brevifolia</i>	Short-leaved evax	-	-	-	1B.2	Coastal bluff scrub, coastal dunes	No suitable habitat along any alternative to support this species.
<i>Hesperolinon congestum</i>	Marin western flax	T	T	-	1B.1	Chaparral, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Horkelia cuneata</i> ssp. <i>Sericea</i>	Kellogg's horkelia	-	-	-	1B.1	Closed-cone coniferous forest, coastal scrub, chaparral	No suitable habitat along any alternative to support this species.
<i>Layia carnosa</i>	Beach layia	E	E	-	1B.1	Coastal Dunes	No suitable habitat along any alternative to support this species.

APPENDIX
 CNDBB RECORDS FOR SPECIAL-STATUS PLANTS AND WILDLIFE WITHIN A 5-MILE BUFFER OF THE PROJECT AREA

Scientific Name	Common Name	Fed	State	CDFG	CNPS	Habitat Characteristics	Potential for Occurrence
<i>Leptosiphon rosaceus</i>	Rose leptosiphon	-	-	-	1B.1	Coastal bluff scrub	No suitable habitat along any alternative to support this species.
<i>Lessingia germanorum</i>	San Francisco lessingia	E	E	-	1B.1	Coastal Scrub	No suitable habitat along any alternative to support this species.
<i>Microseris paludosa</i>	Marsh microseris	-	-	-	1B.2	Closed-cone coniferous forest, cismontaine woodland, coastal scrub, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Choris' popcorn-flower	-	-	-	1B.2	Chaparral, Coastal Scrub, Coastal Prairie	No suitable habitat along any alternative to support this species.
<i>Plagiobothrys diffusus</i>	San Francisco popcorn-flower	-	E	-	1B.1	Coastal prairie, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Sanicula maritime</i>	Adobe sanicle	-	R	-	1B.1	Meadows and seeps, valley and foothill grassland, chaparral, coastal prairie	No suitable habitat along any alternative to support this species.
<i>Silene verecunda</i> ssp. <i>verecunda</i>	San Francisco campion	-	-	-	1B.2	Coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub	No suitable habitat along any alternative to support this species.
<i>Suaeda californica</i>	California seablite	E	-	-	1B.1	Marshes and Swamps	No suitable habitat along any alternative to support this species.
<i>Trifolium amoenum</i>	Showy rancheria clover	E	-	-	1B.1	Valley and foothill grassland, coastal bluff scrub	No suitable habitat along any alternative to support this species.
<i>Triphysaria floribunda</i>	San Francisco owl's clover	-	-	-	1B.2	Coastal prairie, valley and foothill grassland	No suitable habitat along any alternative to support this species.
<i>Triquetrella californica</i>	Coastal triquetrella	-	-	-	1B.2	Coastal bluff scrub, coastal scrub, valley and foothill grasslands	No suitable habitat along any alternative to support this species.

(E) Federally Endangered, (T) Federally Threatened

State Designations:

(E) State Endangered, (T) State Threatened, (R) State Rare,
 California Department of Fish and Game (CDFG) Designations:

(SC) Species of Special Concern, (CFP) Fully Protected Species

California Native Plant Society (CNPS) California Rare Plant Rank:

(1A) Presumed extinct in California; (1B) Rare, threatened, or endangered in California and elsewhere; (2) Rare, threatened, or endangered in California, but more common elsewhere; (3) More information is needed; (4) Limited distribution, watch list

Threat Rank:

- 0.1 Seriously threatened in California (more than 80% of occurrences threatened / high degree and immediacy of threat)
- 0.2 Fairly threatened in California (20 to 80% occurrences threatened / moderate degree and immediacy of threat)
- 0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)