

## **APPENDIX E**

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### **Biological Resources: Special-status Species Documented or with Potential to Occur on the Project Site**

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**U.S. Fish & Wildlife Service**  
**Sacramento Fish & Wildlife Office**  
**Federal Endangered and Threatened Species that Occur in**  
**or may be Affected by Projects in the Counties and/or**  
**U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 130122125239

Database Last Updated: September 18, 2011

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Quad Lists

Listed Species

Invertebrates

- Euphydryas editha bayensis*  
bay checkerspot butterfly (T)  
Critical habitat, bay checkerspot butterfly (X)
- Haliotes cracherodii*  
black abalone (E) (NMFS)
- Haliotes sorenseni*  
white abalone (E) (NMFS)
- Icaricia icarioides missionensis*  
mission blue butterfly (E)
- Speyeria callippe callippe*  
callippe silverspot butterfly (E)
- Speyeria zerene myrtleae*  
Myrtle's silverspot butterfly (E)

Fish

- Acipenser medirostris*  
green sturgeon (T) (NMFS)
- Eucyclogobius newberryi*  
tidewater goby (E)
- Hypomesus transpacificus*  
delta smelt (T)
- Oncorhynchus kisutch*  
coho salmon - central CA coast (E) (NMFS)
- Oncorhynchus mykiss*  
Central California Coastal steelhead (T) (NMFS)  
Central Valley steelhead (T) (NMFS)
- Oncorhynchus tshawytscha*  
Central Valley spring-run chinook salmon (T) (NMFS)  
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- Rana draytonii*  
California red-legged frog (T)  
Critical habitat, California red-legged frog (X)

## Reptiles

- Caretta caretta*  
loggerhead turtle (T) (NMFS)
- Chelonia mydas (incl. agassizi)*  
green turtle (T) (NMFS)
- Dermochelys coriacea*  
leatherback turtle (E) (NMFS)
- Lepidochelys olivacea*  
olive (=Pacific) ridley sea turtle (T) (NMFS)
- Thamnophis sirtalis tetrataenia*  
San Francisco garter snake (E)

## Birds

- Brachyramphus marmoratus*  
marbled murrelet (T)
- Charadrius alexandrinus nivosus*  
western snowy plover (T)
- Diomedea albatrus*  
short-tailed albatross (E)
- Pelecanus occidentalis californicus*  
California brown pelican (E)
- Rallus longirostris obsoletus*  
California clapper rail (E)
- Sternula antillarum (=Sterna, =albifrons) browni*  
California least tern (E)

## Mammals

- Arctocephalus townsendi*  
Guadalupe fur seal (T) (NMFS)
- Balaenoptera borealis*  
sei whale (E) (NMFS)
- Balaenoptera musculus*  
blue whale (E) (NMFS)
- Balaenoptera physalus*  
finback (=fin) whale (E) (NMFS)
- Enhydra lutris nereis*  
southern sea otter (T)
- Eubalaena (=Balaena) glacialis*  
right whale (E) (NMFS)
- Eumetopias jubatus*  
Steller (=northern) sea-lion (T) (NMFS)
- Physeter catodon (=macrocephalus)*  
sperm whale (E) (NMFS)
- Reithrodontomys raviventris*  
salt marsh harvest mouse (E)

## Plants

*Arctostaphylos hookeri ssp. ravenii*  
Presidio (=Raven's) manzanita (E)

*Chorizanthe robusta var. robusta*  
robust spineflower (E)

*Layia carnosa*  
beach layia (E)

*Lessingia germanorum*  
San Francisco lessingia (E)

*Pentachaeta bellidiflora*  
white-rayed pentachaeta (E)

*Trifolium amoenum*  
showy Indian clover (E)

## Proposed Species

### Plants

*Arctostaphylos Franciscana*  
Critical Habitat, Franciscan Manzanita (X)

## Quads Containing Listed, Proposed or Candidate Species:

SAN FRANCISCO SOUTH (448B)

## County Lists

No county species lists requested.

## Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.

*Critical Habitat* - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

## Important Information About Your Species List

### How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.

- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

## Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

## Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

## Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

## Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential

to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

## Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

## Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

## Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

## Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be April 22, 2013.

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Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Adela oplerella</i></b> Opler's longhorn moth	IILEE0G040	None	None	G2G3	S2S3	
<b><i>Amsinckia lunaris</i></b> bent-flowered fiddleneck	PDBOR01070	None	None	G2?	S2?	1B.2
<b><i>Arctostaphylos franciscana</i></b> Franciscan manzanita	PDERI040J3	None	None	G1	S1	1B.1
<b><i>Arctostaphylos imbricata</i></b> San Bruno Mountain manzanita	PDERI040L0	None	Endangered	G1	S1	1B.1
<b><i>Arctostaphylos montana ssp. ravenii</i></b> Presidio manzanita	PDERI040J2	Endangered	Endangered	G3T1	S1	1B.1
<b><i>Arctostaphylos montaraensis</i></b> Montara manzanita	PDERI042W0	None	None	G2	S2.2	1B.2
<b><i>Arctostaphylos pacifica</i></b> Pacific manzanita	PDERI040Z0	None	Endangered	G1	S1	1B.2
<b><i>Astragalus tener var. tener</i></b> alkali milk-vetch	PDFAB0F8R1	None	None	G2T2	S2	1B.2
<b><i>Banksula incredula</i></b> incredible harvestman	ILARA14100	None	None	G1	S1	
<b><i>Caecidotea tomalensis</i></b> Tomales isopod	ICMAL01220	None	None	G2	S2	
<b><i>Callophrys mossii bayensis</i></b> San Bruno elfin butterfly	IILEPE2202	Endangered	None	G4T1	S1	
<b><i>Carex comosa</i></b> bristly sedge	PMCYP032Y0	None	None	G5	S2	2.1
<b><i>Chorizanthe cuspidata var. cuspidata</i></b> San Francisco Bay spineflower	PDPGN04081	None	None	G2T2	S2.2	1B.2
<b><i>Chorizanthe robusta var. robusta</i></b> robust spineflower	PDPGN040Q2	Endangered	None	G2T1	S1	1B.1
<b><i>Cicindela hirticollis gravida</i></b> sandy beach tiger beetle	IICOL02101	None	None	G5T2	S1	
<b><i>Cirsium andrewsii</i></b> Franciscan thistle	PDAST2E050	None	None	G2	S2.2	1B.2
<b><i>Cirsium occidentale var. compactum</i></b> compact cobwebby thistle	PDAST2E1Z1	None	None	G3G4T2	S2.1	1B.2
<b><i>Collinsia multicolor</i></b> San Francisco collinsia	PDSCR0H0B0	None	None	G2	S2.2	1B.2
<b><i>Dufourea stagei</i></b> Stage's dufourine bee	IIHYM22010	None	None	G1?	S1?	
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Eucyclogobius newberryi</i></b> tidewater goby	AFCQN04010	Endangered	None	G3	S2S3	SSC



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Euphydryas editha bayensis</i></b> Bay checkerspot butterfly	IILEPK4055	Threatened	None	G5T1	S1	
<b><i>Fritillaria liliacea</i></b> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<b><i>Geothlypis trichas sinuosa</i></b> saltmarsh common yellowthroat	ABPBX1201A	None	None	G5T2	S2	SSC
<b><i>Gilia capitata ssp. chamissonis</i></b> blue coast gilia	PDPLM040B3	None	None	G5T2	S2.1	1B.1
<b><i>Grindelia hirsutula var. maritima</i></b> San Francisco gumplant	PDAST470D3	None	None	G5T1Q	S1	3.2
<b><i>Helianthella castanea</i></b> Diablo helianthella	PDAST4M020	None	None	G2	S2	1B.2
<b><i>Hemizonia congesta ssp. congesta</i></b> white seaside tarplant	PDAST4R065	None	None	G5T2T3	S2S3	1B.2
<b><i>Hesperevax sparsiflora var. brevifolia</i></b> short-leaved evax	PDASTE5011	None	None	G4T2T3	S2S3	1B.2
<b><i>Horkelia cuneata var. sericea</i></b> Kellogg's horkelia	PDR0S0W043	None	None	G4T2	S2?	1B.1
<b><i>Hydroporus leechi</i></b> Leech's skyline diving beetle	IICOL55040	None	None	G1?	S1?	
<b><i>Ischnura gemina</i></b> San Francisco forktail damselfly	IIOD072010	None	None	G2	S2	
<b><i>Lasiurus cinereus</i></b> hoary bat	AMACC05030	None	None	G5	S4?	
<b><i>Laterallus jamaicensis coturniculus</i></b> California black rail	ABNME03041	None	Threatened	G4T1	S1	FP
<b><i>Layia carnosa</i></b> beach layia	PDAST5N010	Endangered	Endangered	G2	S2	1B.1
<b><i>Leptosiphon rosaceus</i></b> rose leptosiphon	PDPLM09180	None	None	G1	S1	1B.1
<b><i>Lessingia germanorum</i></b> San Francisco lessingia	PDAST5S010	Endangered	Endangered	G1	S1	1B.1
<b><i>Lichnanthe ursina</i></b> bumblebee scarab beetle	IICOL67020	None	None	G2	S2	
<b><i>Malacothamnus arcuatus</i></b> arcuate bush-mallow	PDMAL0Q0E0	None	None	G2Q	S2.2	1B.2
<b><i>Melospiza melodia pusillula</i></b> Alameda song sparrow	ABPBXA301S	None	None	G5T2?	S2?	SSC
<b><i>Mylopharodon conocephalus</i></b> hardhead	AFCJB25010	None	None	G3	S3	SSC
<b><i>Pentachaeta bellidiflora</i></b> white-rayed pentachaeta	PDAST6X030	Endangered	Endangered	G1	S1	1B.1



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Phalacrocorax auritus</i></b> double-crested cormorant	ABNFD01020	None	None	G5	S3	WL
<b><i>Plebejus icarioides missionensis</i></b> Mission blue butterfly	IILEPG801A	Endangered	None	G5T1	S1	
<b><i>Rallus longirostris obsoletus</i></b> California clapper rail	ABNME05016	Endangered	Endangered	G5T1	S1	FP
<b><i>Rana draytonii</i></b> California red-legged frog	AAABH01022	Threatened	None	G4T2T3	S2S3	SSC
<b><i>Riparia riparia</i></b> bank swallow	ABPAU08010	None	Threatened	G5	S2S3	
<b><i>Sanicula maritima</i></b> adobe sanicle	PDAPI1Z0D0	None	Rare	G2	S2.2	1B.1
<b><i>Silene verecunda ssp. verecunda</i></b> San Francisco campion	PDCAR0U213	None	None	G5T2	S2.2	1B.2
<b><i>Speyeria callippe callippe</i></b> callippe silverspot butterfly	IILEPJ6091	Endangered	None	G5T1	S1	
<b><i>Thamnophis sirtalis tetrataenia</i></b> San Francisco garter snake	ARADB3613B	Endangered	Endangered	G5T2	S2	FP
<b><i>Trachusa gummifera</i></b> San Francisco Bay Area leaf-cutter bee	IIHYM80010	None	None	G1	S1	
<b><i>Trifolium amoenum</i></b> showy rancheria clover	PDFAB40040	Endangered	None	G1	S1	1B.1
<b><i>Triphysaria floribunda</i></b> San Francisco owl's-clover	PDSCR2T010	None	None	G2	S2.2	1B.2
<b><i>Triquetrella californica</i></b> coastal triquetrella	NBMUS7S010	None	None	G1	S1	1B.2

Record Count: 55

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## CNPS Inventory of Rare and Endangered Plants

Status: Plant Press Manager window with 27 items - Tue, Jan. 22, 2013 15:09 c

Standard List - with Plant Press controls

### ECOLOGICAL REPORT

scientific	family	life form	blooming	communities	elevation	CNPS
<u><a href="#">Amsinckia lunaris</a></u>	Boraginaceae	annual herb	Mar-Jun	<ul style="list-style-type: none"> <li>•Coastal bluff scrub (CBScr)</li> <li>•Cismontane woodland (CmWld)</li> <li>•Valley and foothill grassland (VFGrs)</li> </ul>	3 - 500 meters	List 1B.2
<u><a href="#">Arctostaphylos franciscana</a></u>	Ericaceae	perennial evergreen shrub	Feb-Apr	<ul style="list-style-type: none"> <li>•Coastal scrub (CoScr)(serpentinite)</li> </ul>	60 - 300 meters	List 1B.1
<u><a href="#">Arctostaphylos imbricata</a></u>	Ericaceae	perennial evergreen shrub	Feb-May	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Coastal scrub (CoScr)/rocky</li> </ul>	275 - 370 meters	List 1B.1
<u><a href="#">Arctostaphylos montana</a></u> ssp. <u><a href="#">ravenii</a></u>	Ericaceae	perennial evergreen shrub	Feb-Mar	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Coastal scrub (CoScr)/serpentinite outcrop</li> </ul>	45 - 215 meters	List 1B.1
<u><a href="#">Arctostaphylos montaraensis</a></u>	Ericaceae	perennial evergreen shrub	Jan-Mar	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)(maritime)</li> <li>•Coastal scrub (CoScr)</li> </ul>	150 - 500 meters	List 1B.2
<u><a href="#">Arctostaphylos pacifica</a></u>	Ericaceae	evergreen shrub	Feb-Apr	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Coastal scrub (CoScr)</li> </ul>	330 - 330 meters	List 1B.2
<u><a href="#">Astragalus tener</a></u> var. <u><a href="#">tener</a></u>	Fabaceae	annual herb	Mar-Jun	<ul style="list-style-type: none"> <li>•Playas (Plyas)</li> <li>•Valley and foothill grassland (VFGrs)(adobe clay)</li> <li>•Vernal pools (VnPls)/alkaline</li> </ul>	1 - 60 meters	List 1B.2
<u><a href="#">Centromadia parryi</a></u> ssp. <u><a href="#">parryi</a></u>	Asteraceae	annual herb	May-Nov	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Meadows and seeps (Medws)</li> <li>•Marshes and swamps (MshSw)(coastal salt)</li> <li>•Valley and foothill grassland (VFGrs)(vernally mesic)/often alkaline</li> </ul>	2 - 420 meters	List 1B.2
<u><a href="#">Chorizanthe cuspidata</a></u> var. <u><a href="#">cuspidata</a></u>	Polygonaceae	annual herb	Apr-Jul(Aug), Months in parentheses are uncommon.	<ul style="list-style-type: none"> <li>•Coastal bluff scrub (CBScr)</li> <li>•Coastal dunes (CoDns)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Coastal scrub (CoScr)/sandy</li> </ul>	3 - 215 meters	List 1B.2
				<ul style="list-style-type: none"> <li>•Chaparral (Chprl)(maritime)</li> </ul>		

<u>Chorizanthe robusta</u> var. <u>robusta</u>	Polygonaceae	annual herb	Apr-Sep	<ul style="list-style-type: none"> <li>•Cismontane woodland (CmWld)(openings)</li> <li>•Coastal dunes (CoDns)</li> <li>•Coastal scrub (CoScr)/sandy or gravelly</li> </ul>	3 - 300 meters	List 1B.1
<u>Cirsium andrewsii</u>	Asteraceae	perennial herb	Mar-Jul	<ul style="list-style-type: none"> <li>•Broadleafed upland forest (BUFRs)</li> <li>•Coastal bluff scrub (CBScr)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Coastal scrub (CoScr)/mesic, sometimes serpentinite</li> </ul>	0 - 150 meters	List 1B.2
<u>Cirsium occidentale</u> var. <u>compactum</u>	Asteraceae	perennial herb	Apr-Jun	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Coastal dunes (CoDns)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Coastal scrub (CoScr)</li> </ul>	5 - 150 meters	List 1B.2
<u>Collinsia multicolor</u>	Plantaginaceae	annual herb	Mar-May	<ul style="list-style-type: none"> <li>•Closed-cone coniferous forest (CCFRs)</li> <li>•Coastal scrub (CoScr)/sometimes serpentinite</li> </ul>	30 - 250 meters	List 1B.2
<u>Equisetum palustre</u>	Equisetaceae	perennial rhizomatous herb	unk	<ul style="list-style-type: none"> <li>•Marshes and swamps (MshSw)</li> </ul>	45 - 1000 meters	List 3
<u>Fritillaria liliacea</u>	Liliaceae	perennial bulbiferous herb	Feb-Apr	<ul style="list-style-type: none"> <li>•Cismontane woodland (CmWld)</li> <li>•Coastal prairie (CoPrr)</li> <li>•Coastal scrub (CoScr)</li> <li>•Valley and foothill grassland (VFGrs)/Often serpentinite</li> </ul>	3 - 410 meters	List 1B.2
<u>Gilia capitata</u> ssp. <u>chamissonis</u>	Polemoniaceae	annual herb	Apr-Jul	<ul style="list-style-type: none"> <li>•Coastal dunes (CoDns)</li> <li>•Coastal scrub (CoScr)</li> </ul>	2 - 200 meters	List 1B.1
<u>Grindelia hirsutula</u> var. <u>maritima</u>	Asteraceae	perennial herb	Jun-Sep	<ul style="list-style-type: none"> <li>•Coastal bluff scrub (CBScr)</li> <li>•Coastal scrub (CoScr)</li> <li>•Valley and foothill grassland (VFGrs)/sandy or serpentinite</li> </ul>	15 - 400 meters	List 3.2
<u>Helianthella castanea</u>	Asteraceae	perennial herb	Mar-Jun	<ul style="list-style-type: none"> <li>•Broadleafed upland forest (BUFRs)</li> <li>•Chaparral (Chprl)</li> <li>•Cismontane woodland (CmWld)</li> <li>•Coastal scrub (CoScr)</li> <li>•Riparian woodland (RpWld)</li> </ul>	60 - 1300 meters	List 1B.2

					•Valley and foothill grassland (VFGrs)		
<u>Hemizonia congesta</u> ssp. <u>congesta</u>	Asteraceae	annual herb	Apr-Nov		•Valley and foothill grassland (VFGrs)/sometimes roadsides	20 - 560 meters	List 1B.2
<u>Hesperevax sparsiflora</u> var. <u>brevifolia</u>	Asteraceae	annual herb	Mar-Jun		•Coastal bluff scrub (CBScr)(sandy) •Coastal dunes (CoDns) •Coastal prairie (CoPrr)	0 - 215 meters	List 1B.2
<u>Horkelia cuneata</u> var. <u>sericea</u>	Rosaceae	perennial herb	Apr-Sep		•Closed-cone coniferous forest (CCFr) •Chaparral (Chprl)(maritime) •Coastal dunes (CoDns) •Coastal scrub (CoScr)/sandy or gravelly, openings	10 - 200 meters	List 1B.1
<u>Lessingia germanorum</u>	Asteraceae	annual herb	(Jun), Jul-Nov Months in parentheses are uncommon.		•Coastal scrub (CoScr)(remnant dunes)	25 - 110 meters	List 1B.1
<u>Malacothamnus arcuatus</u>	Malvaceae	perennial evergreen shrub	Apr-Sep		•Chaparral (Chprl) •Cismontane woodland (CmWld)	15 - 355 meters	List 1B.2
<u>Pentachaeta bellidiflora</u>	Asteraceae	annual herb	Mar-May		•Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)(often serpentinite)	35 - 620 meters	List 1B.1
<u>Plagiobothrys chorisianus</u> var. <u>chorisianus</u>	Boraginaceae	annual herb	Mar-Jun		•Chaparral (Chprl) •Coastal prairie (CoPrr) •Coastal scrub (CoScr)/mesic	15 - 160 meters	List 1B.2
<u>Silene verecunda</u> ssp. <u>verecunda</u>	Caryophyllaceae	perennial herb	Mar-Jun(Aug), Months in parentheses are uncommon.		•Coastal bluff scrub (CBScr) •Chaparral (Chprl) •Coastal prairie (CoPrr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/sandy	30 - 645 meters	List 1B.2
<u>Trifolium amoenum</u>	Fabaceae	annual herb	Apr-Jun		•Coastal bluff scrub (CBScr) •Valley and foothill grassland (VFGrs)(sometimes serpentinite)	5 - 415 meters	List 1B.1

