

Table 3-8. Natural Communities Supporting Modeled¹ Covered Species' Habitats

<i>Covered Species</i>	<i>Natural Communities Supporting Species Habitat</i>
San Joaquin kit fox	
<i>Breeding, foraging, and dispersal habitat</i>	Grassland
<i>Foraging and dispersal habitat</i>	Agricultural Habitats
Riparian woodrat	Valley/Foothill Riparian
Salt marsh harvest mouse	
<i>Wetland habitat</i>	Tidal Brackish Emergent Wetland, Alkali Seasonal Wetland Complex, Managed Wetland
<i>Upland habitat</i>	Grassland
Riparian brush rabbit	Valley/Foothill Riparian
Townsend's big-eared bat	
<i>Roosting and primary foraging habitat</i>	Valley/Foothill Riparian
<i>Primary foraging habitat</i>	Valley/Foothill Riparian
<i>Secondary foraging habitat</i>	Tidal Perennial Aquatic, Tidal Mudflat, Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Grassland, Alkali Seasonal Wetland Complex, Vernal Pool Complex, Other Natural Seasonal Wetland, Nontidal Freshwater Perennial Emergent Wetland, Nontidal Perennial Aquatic, Managed Wetland, Other Natural Seasonal Wetland, Grassland, Agricultural Habitats
Suisun shrew	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Alkali Seasonal Wetland Complex, Nontidal Freshwater Perennial Emergent Wetland, , Managed Wetland
Tricolored blackbird	
<i>Nesting habitat</i>	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Valley/Foothill Riparian, Nontidal Freshwater Perennial Emergent Wetland, Managed Wetland
<i>Foraging habitat: non-agriculture</i>	Grassland, Alkali Seasonal Wetland Complex, Other Natural Seasonal Wetland, Managed Wetland
<i>Foraging habitat: agriculture</i>	Agricultural Habitats
Suisun song sparrow	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Alkali Seasonal Wetland Complex, Nontidal Freshwater Perennial Emergent Wetland, Managed Wetland
Yellow-breasted Chat	
<i>Primary nesting and migratory habitat²</i>	Valley/Foothill Riparian
<i>Secondary nesting and migratory habitat</i>	Valley/Foothill Riparian
Least Bell's vireo	Valley/Foothill Riparian
Western burrowing owl	
<i>High-value habitat</i>	Grassland
<i>Moderate-value habitat</i>	Grassland, Alkali Seasonal Wetland Complex

Table 3-8. Natural Communities Supporting Modeled¹ Covered Species' Habitats (continued)

<i>Covered Species</i>	<i>Natural Communities Supporting Species Habitat</i>
<i>Low-value habitat</i>	Alkali Seasonal Wetland Complex, Vernal Pool Complex, Other Natural Seasonal Wetland, Managed Wetland, Agricultural Habitats
Western yellow-billed cuckoo	Valley/Foothill Riparian
California least tern	Tidal Perennial Aquatic
Greater sandhill crane	Alkali Seasonal Wetland Complex, Vernal Pool Complex, Other Natural Seasonal Wetland, Managed Wetland, Grassland, Agricultural Habitats
California black rail	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Alkali Seasonal Wetland Complex, Nontidal Freshwater Perennial Emergent Wetland, , Managed Wetland
California clapper rail	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland,
Swainson's hawk	
<i>Nesting habitat</i>	Valley/Foothill Riparian
<i>Foraging habitat</i>	Grassland, Alkali Seasonal Wetland Complex, Other Natural Seasonal Wetland, Managed Wetland, Agricultural Habitats
White-tailed kite	
<i>Breeding habitat</i>	Valley/Foothill Riparian
<i>Foraging habitat</i>	Grassland, Alkali Seasonal Wetland Complex, Other Natural Seasonal Wetland, Managed Wetland, Agricultural Habitats
Giant garter snake	
<i>Primary Zone: Aquatic breeding, foraging, and movement</i>	Tidal Perennial Aquatic, Tidal Freshwater Emergent Wetland, Other Natural Seasonal Wetland, Nontidal Freshwater Perennial Emergent Wetland
<i>Primary zone: Upland aestivation and movement</i>	Grassland, Alkali Seasonal Wetland Complex, Vernal Pool Complex, Other Natural Seasonal Wetland, Managed Wetland, Agricultural Habitats
Western pond turtle	
<i>Aquatic habitat</i>	Tidal Perennial Aquatic, Tidal Freshwater Emergent Wetland
<i>Dispersal habitat</i>	Managed Wetland, Other Natural Seasonal Wetland, Agricultural Habitats
<i>Upland nesting and overwintering</i>	Valley/Foothill Riparian, Grassland
California red-legged frog	
<i>Aquatic habitat</i>	Tidal Freshwater Emergent Wetland, Nontidal Freshwater Perennial Emergent Wetland, Managed Wetland
<i>Upland cover and dispersal habitat</i>	Valley/Foothill Riparian, Grassland
<i>Dispersal habitat</i>	Agricultural Habitats
Western spadefoot toad	
<i>Aquatic breeding habitat</i>	Vernal Pool Complex, Other Natural Seasonal Wetland, Nontidal Perennial Aquatic,
<i>Terrestrial cover and aestivation habitat</i>	Grassland, Alkali Seasonal Wetland Complex
California tiger salamander	
<i>Aquatic breeding habitat</i>	Vernal Pool Complex, Other Natural Seasonal Wetland

Table 3-8. Natural Communities Supporting Modeled¹ Covered Species' Habitats (continued)

<i>Covered Species</i>	<i>Natural Communities Supporting Species Habitat</i>
<i>Terrestrial cover and aestivation habitat</i>	Grassland, Alkali Seasonal Wetland Complex
Lange's metalmark butterfly	Inland Dune Scrub
Valley elderberry longhorn beetle	
<i>Riparian vegetation</i>	Valley/Foothill Riparian
<i>Non-riparian channels and grasslands</i>	Grassland
Vernal pool shrimp species (vernal pool tadpole shrimp, conservancy fairy shrimp, longhorn fairy shrimp, vernal pool fairy shrimp, midvalley fairy shrimp, California linderiella)	Vernal Pool Complex
Vernal pool plant species (Alkali milk-vetch, San Joaquin spearscale, Boggs Lake hedge-hyssop, Heckard's peppergrass, legenera)	Vernal Pool Complex
Heartscale and brittlescale	Alkali Seasonal Wetland Complex, Vernal Pool Complex, Grassland
Slough thistle	Valley/Foothill Riparian
Suisun thistle and soft bird's-beak	Tidal Brackish Emergent Wetland
Delta button-celery	Valley/Foothill Riparian, Alkali Seasonal Wetland Complex, Vernal Pool Complex
Dwarf downingia	Vernal Pool Complex
Contra Costa wallflower	Inland Dune Scrub
Carquinez goldenbush	Grassland, Alkali Seasonal Wetland Complex, Vernal Pool Complex
Delta tule pea and Suisun marsh aster	Tidal Brackish Emergent Wetland, Tidal Freshwater Emergent Wetland, Valley/Foothill Riparian
Mason's lilaeopsis and delta mudwort	Tidal Mudflat
Antioch Dunes evening-primrose	Inland Dune Scrub
Side-flowering skullcap	Valley/Foothill Riparian
Caper-fruited tropidocarpum	Grassland

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2 The tidal perennial aquatic natural community is an important link between upstream and

3 downstream ecosystems. Much of the productivity, organic matter, and inorganic sediment from

4 upstream waterways and marshes eventually moves into the tidal perennial aquatic community and

5 subsequently moves downstream to the Pacific Ocean. In the Plan Area, saline oceanic water mixes

6 with freshwater from rivers in the western region of the tidal perennial aquatic natural community.

7 This mixing establishes a salinity gradient, which varies by area and location with seasonal variations

8 in freshwater outflow and tidal action and which drives the location of species that require specific

9 salinity ranges. Historically, in most seasons, the salinity gradient was generally farther

10 downstream than it now occurs under similar precipitation and unimpaired flow conditions