

APPENDIX D – SPECIAL-STATUS PLANTS AND WILDLIFE WITH THE POTENTIAL TO OCCUR IN THE BSA

Scientific Name	Common Name	Status		Likelihood of Occurrence in BSA	Comment
		Fed/State	CNPS		
PLANTS					
<i>Amsinckia grandiflora</i>	Large-flowered fiddleneck	FE/SE	1B.1	Low likelihood to occur; habitat present but outside species range.	Species occurs in cismontane woodland, valley and foothill grassland (CNPS, 2007). There are no CNDDDB occurrences in the project quads. The species is only known from three natural occurrences (CDFG 2008). Species is not discussed further.
<i>Amsinckia lunaris</i>	Bent-flowered fiddleneck	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in coastal bluff scrub, cismontane woodland, valley and foothill grassland (CNPS, 2007). Closest known population is 4 km (2.5 mi) from the BSA (CDFG, 2008). Species is not discussed further.
<i>Arctostaphylos pallida</i>	Pallid Manzanita	FT/SE	1B.1	Not likely to occur; suitable habitat not in BSA	Species occurs in broadleafed upland forest, closed cone coniferous forest, chaparral, cismontane woodland, and coastal scrub (CNPS, 2007). This species does not occur in the project quads and there is no suitable habitat in the BSA. Species is not discussed further.
<i>Astragalus tener</i> var. <i>tener</i>	Alkali milk-vetch	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in playas, valley and foothill grassland alkaline, vernal pools (CNPS, 2007). The one CNDDDB occurrence adjacent to the BSA is historic (1938) and listed as possibly extirpated (2002) due to development. Other occurrences on the project quads are also presumed to be extirpated (CDFG, 2008). Species is not discussed further.
<i>Atriplex cordulata</i>	Heartscale	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in chenopod scrub, meadows and seeps, valley and foothill grassland sandy saline or alkaline soils (CNPS, 2007). Known occurrences are located adjacent to BSA in the Frick Lake/Springtown Alkali Sink area, but habitat in BSA is likely to be highly disturbed (CDFG, 2008). Species is not discussed further.
<i>Atriplex depressa</i>	Brittlescale	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in chenopod scrub, meadows and seeps, playas, valley and foothill grassland, vernal pools and alkaline or clay soils (CNPS, 2007). Known occurrences are located within one mile of the BSA in the Frick Lake/Springtown Alkali Sink area, but habitat in BSA is likely to be highly disturbed (CDFG, 2008). Species is not discussed further.
<i>Atriplex joaquiniana</i>	San Joaquin spearscale	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in chenopod scrub, meadows and seeps, playas, valley and foothill grassland, and alkaline soils (CNPS, 2007). Known occurrences are located adjacent to BSA in the Frick Lake/Springtown Alkali Sink area, but habitat in BSA is likely to be highly disturbed (CDFG, 2008). Species is not discussed further.

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<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	Big-scale balsamroot	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in chaparral, cismontane woodland, valley and foothill grassland sometimes serpentine soils (CNPS, 2007). Closest known occurrence has been extirpated (1993). The nearest extant population is approximately 16 km (10 mi) from the study area (CDFG, 2008). Species is not discussed further.
<i>Blepharizonia plumosa</i>	Big tarplant	--/--	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in valley and foothill grasslands (CNPS, 2007). Closest known occurrence is approximately 8 km (5 mi) from the BSA (CDFG, 2008). Species is not discussed further.
<i>California macrophylla</i>	Round-leaved filaree	--/--	1B.1	Likely to occur; suitable habitat present in BSA	Species occurs in cismontane woodland, valley and foothill grassland with clay soils (CNPS, 2007). Closest known occurrence is 3.2 km (2 mi) from the BSA (CDFG, 2008). See 4.4.8 for species discussion and analysis.
<i>Centromadia parryi</i> ssp. <i>Congdonii</i>	Congdon's tarplant	--/--	1B.2	Likely to occur; suitable habitat is present in BSA	Several individuals of this species were observed in the BSA during reconnaissance-level botanical surveys. See Section 4.4.8 for species discussion and analysis.
<i>Clarkia franciscana</i>	Presidio clarkia	FE/SE	1B.1	Not likely to occur; suitable habitat not in BSA	There is only one known occurrence of this species in Alameda county and this species does not occur on the project quads. This species requires serpentine soils, which do not occur in the BSA (CDFG, 2008). Species is not discussed further.
<i>Cordylanthus mollis</i> ssp. <i>Hispidus</i>	Hispid bird's-beak	--/--	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in meadows and seeps, playas, valley and foothill grassland with alkaline soils (CNPS, 2007). Known occurrences are located adjacent to BSA in the Frick Lake/ Springtown Alkali Sink area, but habitat in BSA is likely to be highly disturbed (CDFG, 2008). Species is not discussed further.
<i>Cordylanthus palmatus</i>	Palmate-bracted bird's-beak	FE/SE	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in chenopod scrub, valley and foothill grassland with alkaline soils (CNPS, 2007). Closest known occurrence occurs within 1.5 km (1 mi) of the BSA in the Frick Lake/Springtown Alkali Sink Area, but any habitat in BSA is likely to be highly disturbed (CDFG, 2008). Species is not discussed further.
<i>Deinandra bacigalupii</i>	Livermore tarplant	--/--	1B.2	Not likely to occur; suitable habitat not in BSA	Species prefers meadows and seeps with alkaline soils (CNPS, 2007). There are only four known occurrences of this species and it is not known to occur in the BSA (Chris Thayer, pers. comm.). Species is not discussed further.
<i>Delphinium californicum</i> ssp. <i>Interius</i>	Hospital Canyon larkspur	--/--	1B.2	Not likely to occur; suitable habitat not in BSA	Species occurs in chaparral and cismontane woodland (CNPS, 2007). Closest known occurrence is approximately 8 km (5 mi) from the BSA (CDFG, 2008). Species is not discussed further.

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<i>Eschscholzia rhombipetala</i>	Diamond-petaled California poppy	--/--	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in valley and foothill grassland (CNPS, 2007). Closest known occurrence is approximately 3 km (2 mi) from the BSA and is listed as possibly extirpated (CDFG, 2008). Species is not discussed further.
<i>Helianthella castanea</i>	Diablo helianthella	--/--	1B.2	Low likelihood to occur; habitat present but outside species range	Species occurs in broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland valley and foothill grassland (CNPS, 2007). Closest known occurrence is approximately 8 km (5 mi) from the BSA (CDFG, 2008). Species is not discussed further.
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE/--	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in valley and foothill grassland, vernal pools, and cismontane woodland. There are no CNDDDB occurrences in the project quads (CDFG, 2008). Species is not discussed further.
	Contra Costa goldfields (Critical Habitat)	X			
<i>Plagiobothrys glaber</i>	Hairless popcorn-flower	--/--	1A	Not likely to occur; suitable habitat not in BSA	Species occurs in meadows and seeps with alkaline soils, coastal salt marshes and swamps (CNPS, 2007). Species is presumed extinct (CNPS, 2007; CDFG, 2008). Species is not discussed further.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	Saline clover	--/--	1B.2	Not likely to occur; suitable habitat not in BSA	Species occurs in marshes and swamps, valley and foothill grassland and vernal pools (CDFG, 2008). Closest known occurrence is extirpated (CDFG, 2008). Species is not discussed further.
<i>Tropidocarpum capparideum</i>	Caper-fruited tropidocarpum	--/--	1B.1	Low likelihood to occur; habitat present but outside species range	Species occurs in valley and foothill grassland (CNPS, 2007). Known occurrence on project quads is historic (1897), but presumed extant. All other occurrences in the region are historic (1930's) or extirpated (CDFG, 2008). Species is not discussed further.
	Sycamore Alluvial Woodland	X			
	Valley Sink Scrub	X			

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WILDLIFE					
Invertebrates					
<i>Branchinecta conservatio</i>	Conservancy fairy shrimp	FE/--	N/A	Not likely to occur; suitable habitat not in BSA	Nearest known occurrence is in Stanislaus County, approximately 40 km (25 mi) from the BSA (CDFG 2008). Species is not discussed further.
<i>Branchinecta longiantenna</i>	Longhorn fairy shrimp	FE/--	N/A...	Not likely to occur; suitable habitat not in BSA	Nearest known occurrence is 4 km (2.5 mi) from the BSA. Critical Habitat is not located in the BSA (CDFG 2008). Species is not discussed further.
	Longhorn fairy shrimp (Critical Habitat)	X			
<i>Branchinecta lynchi</i>	Vernal Pool Fairy Shrimp	FT/--	N/A	Likely to occur; suitable habitat present in BSA	Vernal Pool Fairy Shrimp Critical Habitat located adjacent to the BSA. See Section 4.4.9.1. for species discussion and analysis.
	Vernal Pool Fairy Shrimp (Critical Habitat)	X	N/A		
<i>Euphydrya editha bayensis</i>	Bay checkerspot butterfly	FT/--	N/A	Not likely to occur; suitable habitat not in BSA	There are no CNDDDB occurrences in the project quads and the two occurrences in the county are extirpated (CDFG, 2008). Species is not discussed further.
<i>Lepidurus packardii</i>	Vernal pool tadpole shrimp	FE/--	N/A	Not likely to occur; suitable habitat not in BSA	There are no CNDDDB occurrences in the project quads (CDFG, 2008). Habitat in the BSA is highly degraded. Species is not discussed further.
	Vernal pool tadpole shrimp (Critical Habitat)	X			
<i>Speyeria callippe callippe</i>	Callippe silverspot butterfly	FE/	N/A	Not likely to occur; suitable habitat not in BSA	Restricted to the Northern coastal scrub of the San Francisco Peninsula. Species is not discussed further.
Fish					
<i>Acipenser medirostris</i>	Green sturgeon	FT/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur in the San Francisco Bay estuary and in the Sacramento River watershed (NMFS, 2007). There is no estuary habitat within the BSA. Species is not discussed further.

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<i>Eucyclogobius newberryi</i>	Tidewater goby	FE/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur in brackish waters in the San Francisco Bay (CDFG, 2008). There is no saltwater habitat within the BSA. Species is not discussed further.
<i>Hypomesus transpacificus</i>	Delta smelt	FT/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur in tidal water of the San Joaquin-Sacramento Delta. There is no tidal habitat within the BSA. Species is not discussed further.
	Delta Smelt (Critical Habitat)	X			
<i>Oncorhynchus kisutch</i>	Coho salmon	FE/	N/A	Not likely to occur; suitable habitat not in BSA	Coho salmon were last documented from an San Francisco estuary stream during the 1980's and the Alameda Creek watershed is not likely to have historically supported Coho salmon (Leidy, 2007). Species is not discussed further.
<i>Oncorhynchus mykiss irideus</i>	Central California Coast Steelhead ESU	FT/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is not known to occur in creeks within the BSA; there is no suitable spawning or rearing habitat present in Arroyo Las Positas or Cayetano Creek (Leidy et. al. 2005).
	CCC Steelhead (Critical Habitat)	X	N/A	Not present in BSA	
<i>Oncorhynchus mykiss irideus</i>	Central Valley steelhead	FT/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur in the San Joaquin and Sacramento Rivers and their tributaries. Species is not discussed further.
<i>Oncorhynchus tshawytscha</i>	Chinook salmon – Central Valley (spring-run)	FT/SSC	N/A	Not likely to occur; suitable habitat not in BSA	This species is not known to occur in the creeks within the BSA. Species is not discussed further.
<i>Oncorhynchus tshawytscha</i>	Chinook salmon – Sacramento River (winter-run)	FE/SE	N/A	Not likely to occur; suitable habitat not in BSA	This species is not known to occur in the creeks within the BSA. Species is not discussed further.
	Chinook Salmon (winter-run) (Critical Habitat)	X	N/A	Not present in BSA	
Amphibians					
<i>Ambystoma californiense</i>	California tiger salamander	FE/SSC	N/A	Likely to occur; suitable habitat present in BSA	Known to occur in the immediate proximity of the BSA. See Section 4.4.9.3 for species discussion and analysis.
	California tiger salamander (Critical Habitat – Central Population)	X			

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<i>Rana aurora</i>	California red-legged frog	FT/SSC	N/A	Likely to occur; suitable habitat present in BSA	Known to occur in immediate proximity of the BSA. See Section 4.4.9.4 for species discussion and analysis.
	California red-legged frog (Critical habitat)	X			
<i>Spea hammondi</i>	Western spadefoot	--/SSC	N/A	Low likelihood to occur; habitat present but outside species range	Species requires vernal pools for breeding and egg-laying. Species occurs primarily in grasslands. Closest known population is 4 km (2.5 mi) from the BSA (CDFG, 2008). Species is not discussed further.
Reptiles					
<i>Emys (Clemmys) marmorata</i>	Western pond turtle	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Presumed to occur in riparian areas within the BSA (NRM, 2007). See Section 4.4.9.5. for species discussion and analysis.
<i>Masticophis flagellum ruddocki</i>	San Joaquin whipsnake	--/SSC	N/A	Low likelihood to occur; habitat present but outside species range	Species occurs in open, dry habitats with little or no tree cover found in valley grassland and saltbrush scrub in the San Joaquin Valley (CDFG, 2008). Closest known population is 3.8 km (3 mi) from the BSA (CDFG, 2008). Species is not discussed further.
<i>Masticophis lateralis</i>	Alameda whipsnake	FT/ST	N/A	Not likely to occur; suitable habitat not in BSA	Restricted to valley-foothill hardwood habitat of the coast ranges between Monterey and northern San Francisco Bay; inhabits south-facing slopes and ravines where shrubs form a vegetative mosaic with oak trees and grasses. No suitable habitat within the BSA. Species is not discussed further.
	Alameda whipsnake (Critical Habitat)	X			
Birds					
<i>Accipiter cooperii</i>	Cooper's hawk	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Riparian community associated with Arroyo Las Positas may provide nesting habitat (Parsons, 2006). Marginal foraging habitat may be present in the BSA. See Section 4.4.9.6 for species discussion and analysis.
<i>Agelaius tricolor</i>	Tricolored blackbird	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Known populations exist within 1.5 km (~1 mi) from the BSA (CDFG, 2008). Marginal foraging habitat may be present in the BSA. See Section 4.4.9.6 for species discussion and analysis.
<i>Athene cunicularia hypugaea</i>	Western burrowing owl	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Known populations exist adjacent to the BSA (CDFG, 2008). Individuals are not likely to live within the BSA due to highway noise and highly disturbed habitat. Marginal foraging habitat may be present in the BSA. See Section 4.4.9.6 for species discussion and analysis.

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<i>Buteo regalis</i>	Ferruginous hawk	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	One occurrence from 1998 is presumed extant and is located within 1.5 km (~1 mi) from the BSA (CDFG, 2008). Marginal foraging habitat may be present in the BSA. See Section 4.4.9.6 for species discussion and analysis.
<i>Elanus leucurus</i>	White-tailed kite	--/SFP	N/A	Likely to occur; suitable habitat present in BSA	Riparian community associated with Arroyo Las Positas may provide nesting habitat (Parsons, 2006). See Section 4.4.9.6 for species discussion and analysis.
<i>Empidonax traillii brewsteri</i>	Little willow flycatcher	--/SE	N/A	Likely to occur; suitable habitat present in BSA	May occur as a migrant in riparian areas within and adjacent to the BSA (Parsons 2006). See Section 4.4.9.6 for species discussion and analysis.
<i>Eremophila alpestris actia</i>	California horned lark	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	One occurrence from 1992 is presumed extant and located within 3.2 km (2 mi) of the BSA (CDFG, 2008). Marginal foraging habitat may be present in the BSA. See Section 4.4.9.6 for species discussion and analysis.
<i>Lanius ludovicianus</i>	Loggerhead shrike	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Species may occur in riparian scrub, ornamental, and annual grassland communities within or adjacent to the BSA (Caltrans, 2006). See Section 4.4.9.6 for species discussion and analysis.
<i>Pelecanus occidentalis californicus</i>	California brown pelican	FE/--	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur near Monterey and further south along the Central Coast (CDFG, 2008). Species is not discussed further.
<i>Rallus longirostris obsoletus</i>	California clapper rail	FE/SE	N/A	Not likely to occur; suitable habitat not in BSA	This species is known to occur in brackish marshes (CDFG, 2008). There is no suitable habitat within the BSA. Species is not discussed further.
<i>Sterna antillarum</i> (=albifrons) browni (nesting colonies)	California least tern	FE/SE, CFP	N/A	Not likely to occur; suitable habitat not in BSA	Nests colonially on open, undisturbed, sandy or gravelly shores near shallow-water feeding areas in estuaries No suitable habitat within the BSA. Species is not discussed further.
Mammals					
<i>Antrozous pallidus</i>	Pallid bat	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	Two occurrences located within 8 km (5 mi) of the BSA (CDFG, 2008). Marginal foraging habitat may be present and bridge structures may provide roosting habitat in the BSA. See Section 4.4.9.7 for species discussion and analysis.
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	One occurrence is located 8 km (5 mi) from the BSA (CDFG, 2008). Marginal foraging habitat may be present in the BSA. See Section 4.4.9.7 for species discussion and analysis.

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<i>Lasiurus cinereus</i>	Hoary bat	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	One historic occurrence (1941) is presumed extant and located approximately 8 km (5 mi) from the BSA (CDFG, 2008). Marginal roosting and foraging habitat may be present in the BSA. See Section 4.4.9.7 for species discussion and analysis.
<i>Myotis yumanensis</i>	Yuma myotis	--/SSC	N/A	Likely to occur; suitable habitat present in BSA	One occurrence is located within 1.5 km (1 mi) of the BSA (CDFG, 2008). Marginal roosting and foraging habitat may be present in the BSA. See Section 4.4.9.7 for species discussion and analysis.
<i>Reithrodontomys raviventris</i>	Salt-marsh harvest mouse	FE/SE	N/A	Not likely to occur; suitable habitat not in BSA	Species occurs only in the saline emergent wetlands of San Francisco Bay and its tributaries. No suitable habitat within the BSA. Species is not discussed further.
<i>Taxidea taxus</i>	American badger	--/SSC	N/A	Not likely to occur; suitable habitat not in BSA	Several known occurrences are located within 4.8 (3 mi) of the BSA (CDFG, 2008). Individuals are not likely to live within the BSA due to proximity to I-580 and highly disturbed habitat. See Section 4.4.9.8 for species discussion and analysis.
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	FE/ST	N/A	Likely to occur; suitable habitat present in BSA	Marginally suitable foraging habitat may be present in the BSA. See Section 4.4.9.9 for species discussion and analysis.
NOTES <u>Status Codes:</u> Federal Status FE – Federally listed as endangered FT – Federally listed as threatened FC – Candidate for federal listing State Status SE – State listed as endangered ST – State listed as threatened SSC – State Species of Concern SR – State listed as rare SFP – Fully Protected				California Native Plant Society (CNPS) Status 1A – Plants presumed extinct in California 1B – Plants rare, threatened, or endangered in California and elsewhere 2 – Plants rare, threatened, or endangered in California, but more common elsewhere 3 – Plants about which we need more information – a review list 4 – Plants of limited distribution – a watch list CNPS threat code extensions .1 – Seriously endangered in California. .2 – Fairly endangered in California. .3 – Not very endangered in California. ? – Not determined. A - Absent - no habitat present and no further work needed. HP – Habitat is, or may be present. The species may be present. P – Present – the species is present.	
Sources: California Natural Diversity Database (CNDDDB). 2008. RareFind3. California Department of Fish and Game, Sacramento. California Native Plant Society (CNPS). 2007. Inventory of Rare and Endangered Plants of California. Online edition, v6-05a. California Native Plant Society. Sacramento, CA. U.S. Fish and Wildlife Service. 2005. "Endangered Species Lists." January 2008.					