

Appendix D
Focal Species Evaluation

Table D-1. Yolo RCIS Potential Focal Species

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Ancient Ant <i>Pryamica reliquia</i>	-	-	N	N	Y	N	N	N	N	N	N/A	Only one occurrence found within the RCIS area; no near term mitigation needs.	
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	-	FT	Y	N	Y	Y	N	Y	N	Y	Vernal pool ecosystem health and function	Found within CIS area; species of conservation need.	
Vernal pool tadpole shrimp <i>Lepidurus packardi</i>	-	FE	Y	N	Y	Y	N	Y	N	Y	Vernal pool ecosystem health and function	Found within RCIS area; species of conservation need.	
California linderiella <i>Linderiella occidentalis</i>	-	-	N	N	Y	N	N	Y	N	Y	Vernal pool ecosystem health and function	Found within RCIS area; species of conservation need.	
Conservancy fairy shrimp <i>Branchinecta conservatio</i>		FE	Y	N	N	Y	N	Y	N	Y	Vernal pool ecosystem health and function	Found within RCIS area; species of conservation need.	
Midvalley Fairy Shrimp <i>Branchinecta mesovallensis</i>	-	-	N	N	N	Y	N	Y	N	Y	Vernal pool ecosystem health and function	Found within RCIS area; in need of mitigation.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Molestan beetle <i>Lytta molesta</i>	SSC	-	N	N	Y	N	N	N	N	N	N/A	No recent occurrences in RCIS area. This species may benefit from the implementation of the conservation strategy for vernal pools.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Valley elderberry long- horn beetle <i>Desmocerus californicus dimorphus</i>	-	FT	Y	N	Y	Y	Y	Y	Y	Y	Riparian floodplain ecosystem health and function; sensitive to fragmentatio n	Found within RCIS area; species of conservation need; occurs in floodplain.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation	Indicator	Wide- Ranging	Recommend as Focal	Indicator of	Evaluation Notes
					Area	Data	Needs	Species	Species	Species ^e		
Delta smelt <i>Hypomesus transpacificus</i>	SE	FT	Y	Y	N	Y	N	Y	Y	Y	Stream health and function, including in- stream habitat	Found within RCIS area; in need of mitigation; considered species of conservation need.
Longfin smelt <i>Spirinchus thaleichthys</i>	ST	FC	Y	Y	Y	Y	N	Y	Y	N	Stream and estuarine health and function, including in- stream habitat	This species may benefit from the implementation of conservation strategies developed for ecological processes and conditions, the riverine and riparian natural community, and focal fish species, but there are no near term mitigation needs.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term	Indicator	Wide-	Recommend	Indicator of	Evaluation Notes
					Area	Data	Needs	Species	Ranging Species	as Focal Species ^e		
Hardhead <i>Mylopharodon conocephalus</i>	-	-	Y	Y	N	N	N	N	Y	N	Stream health and function, including in- stream habitat and connectivity	Not found in RCIS area; no near-term mitigation needs.
Pacific lamprey <i>Entosphenus tridentatus</i>	SCC	-	-	Y	Y	Y	N	Y	Y	N	Stream health and function, including in- stream habitat and connectivity	This species may benefit from the implementation of conservation strategies developed for ecological processes and conditions, the riverine and riparian natural community, and focal fish species, but there are no near term mitigation needs.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes
					Area	Data						
River lamprey <i>Lampetra ayresii</i>	SCC	-	-	Y	Y	Y	N	Y	Y	N	Stream health and function, including in- stream habitat and connectivity	This species may benefit from the implementation of conservation strategies developed for ecological processes and conditions, the riverine and riparian natural community, and focal fish species, but there are no near term mitigation needs.
White sturgeon <i>Acipenser transmontanus</i>	SCC	-	-	Y	Y	Y	N	Y	Y	Y	Stream health and function, including in- stream habitat and connectivity	Found within RCIS area; in need of mitigation; considered species of conservation need.
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	SSC	FD	Y	N	Y	Y	N	Y	Y	Y	Stream health and function, including in- stream habitat	Found within RCIS area; in need of mitigation; considered species of conservation need.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes
					Area	Data						
Sacramento perch	-	-	Y	Y	N	N	N	N	N	N	Stream health and function, including in-stream habitat and connectivity	Not found in RCIS area; no recent occurrences; no near-term mitigation needs.
Green sturgeon <i>Acipenser medirostris</i>	-	FT	Y	Y	Y	Y	Y	Y	Y	Y	Stream health and function, including in-stream habitat and connectivity	Found within RCIS area; in need of mitigation; considered species of great conservation need.
Central Valley steelhead <i>Oncorhynchus mykiss</i>	-	FT	Y	Y	Y	Y	Y	Y	Y	Y	Stream health and function, including in-stream habitat and connectivity	Found within RCIS area; in need of mitigation; indicator species.
Sacramento River winter-run Chinook salmon <i>Onchorhynchus tshawytscha</i>	SE	FE	N	Y	Y	Y	Y	Y	Y	Y	Stream health and function, including in-stream habitat and connectivity	Found within RCIS area; in need of mitigation; indicator species.
Central Valley spring-run Chinook salmon <i>Onchorhynchus tshawytscha</i>	ST	FT	Y	Y	Y	Y	Y	Y	Y	Y	Stream health and function, including in-stream habitat and connectivity	Found within RCIS area; in need of mitigation; indicator species.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation	Indicator	Wide- Ranging	Recommend as Focal	Indicator of	Evaluation Notes
					Area	Data	Needs	Species	Species	Species ^e		
Central Valley fall/late fall-run Chinook salmon <i>Onchorhynchus tshawytscha</i>	SSC	SOC	N	Y	Y	Y	Y	Y	Y	Y	Stream health and function, including in- stream habitat and connectivity	Found within RCIS area; in need of mitigation; indicator species.
California tiger salamander <i>Ambystoma californiense</i>	ST	FT	Y	Y	Y	Y	N	Y	Y	Y	Wetland, pond, and vernal pool complex ecosystem health and function	Found within RCIS area; in need of mitigation; indicator species.
Foothill yellow- legged frog <i>Rana boylei</i>	CT	-	Y	Y	Y	Y	N	N	Y	N	Stream health and function	Found within RCIS area but western area where no development proposed; indicator species.
Western spadefoot <i>Spea hammondi</i>	SSC	UR	Y	N	Y	Y	N	Y	Y	Y	Wetland and vernal pool complex ecosystem health and function	Found within RCIS area; in need of mitigation; indicator species.
California red- legged frog <i>Rana (aurora) draytonii</i>	ST	FT	Y	N	N	Y	N	Y	Y	N	Wetland and pond ecosystem health and function	No occurrences within the RCIS area.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Giant garter snake <i>Thamnophis gigas</i>	ST	FT	Y	N	Y	Y	Y	Y	Y	Y	Water availability in wetlands, canals, ditches, and ricelands.	Found within RCIS area; in need of mitigation.	
Western pond turtle <i>Emys marmorata</i>	SSC	UR	Y	N	Y	Y	Y	Y	Y	Y	Wetland and pond ecosystem health and function	In need of mitigation; indicator species.	
San Joaquin Whipsnake <i>Masticophis flagellum ruddocki</i>	-	-	N	N	N	Y	N	N	N	N	N/A	No occurrence documented in the RCIS area; no near term mitigation needs	
Coast Horned Lizard	SSC	-	N	N	N	Y	N	N	N	N	N/A	RCIS Area in known range of species; no known occurrences; no near term mitigation needs.	
Burrowing owl <i>Athene cunicularia</i>	SSC	-	Y	N	Y	Y	N	Y	N	Y	Grassland communities with ground squirrel populations	Known to occur in RCIS Area; species of conservation concern: mitigation needs.	
Greater sandhill crane <i>Grus canadensis tabida</i>	ST	-	Y	N	Y	Y	N	N	Y	Y	N/A	State threatened species.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation	Indicator	Wide- Ranging	Recommend as Focal	Indicator of	Evaluation Notes	
					Area	Data	Needs	Species	Species	Species ^e			
Bald eagle <i>Haliaeetus leucocephalus</i>	SE/FP	FD, BGPA	Y	N	Y	Y	N	N	N	N	N/A	Fully protected species; no near term mitigation needs.	
Snowy egret <i>Egretta thula</i>	-	-	N	-	Y	Y	N	Y	N	N	N/A	Not State or Federally listed species. No near term mitigation needs.	
Osprey <i>Pandion haliaetus</i>	-	-	N	-	Y	Y	N	N	N	N	N/A	Occurrences within RCIS, however, not a species of great conservation need or immediate mitigation need.	
Swainson's hawk <i>Buteo swainsoni</i>	ST	-	Y	Y	Y	Y	Y	N	Y	Y	N/A	Found within RCIS area; in need of mitigation.	
Northern harrier <i>Circus cyaneus</i>	SSC	-	Y	N	Y	Y	N	N	Y	Y	N/A	Found within RCIS area; in need of mitigation.	
Tricolored blackbird <i>Agelaius tricolor</i>	ST	UR	Y	N	Y	Y	Y	Y	Y	Y	Freshwater wetland and pond health and function	Found within RCIS area; in need of mitigation.	
California black rail <i>Laterallus jamaicensis coturniculus</i>	ST/FP	-	Y	Y	N	Y	Y	Y	N	Y	Tidal marsh and perennial emergent wetland health and function	State threatened; has near term mitigation needs.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Mountain plover <i>Charadrius montanus</i>	SSC	-	Y	N	Y	Y	N	N	Y	N	N/A	Does not nest in the RCIS area; not State or Federally listed species.	
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	ST	FT	N	Y	N	Y	N	Y	Y	N	Coastal dune ecosystem health and function	Does not nest within RCIS area.	
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	SE	FT	Y	Y	Y	Y	Y	Y	Y	Y	Riparian ecosystem health and function; sensitive to fragmentation	State and Federally listed; considered species of conservation need; near term mitigation requirements.	
Bank swallow <i>Riparia riparia</i>	ST	-	Y	N	Y	Y	Y	Y	N	Y	River health, process, and function	State listed; considered species of conservation need; near term mitigation requirements.	
Least Bell's vireo <i>Vireo bellii pusillus</i>	SE	FE	Y	Y	N	Y	Y	Y	N	Y	Riparian ecosystem health and function	State and Federally listed; considered species of conservation need; near term mitigation requirements.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Grasshopper sparrow <i>Ammodramus savannarum</i>	-	-	Y	N	Y	Y	Y	Y	N	Y	Grassland ecosystem health and function	Occurs in RCIS Area; indicator species; species of great conservation need.	
Black tern <i>Chlidonias niger</i>	SSC	-	Y	Y	N	Y	Y	N	Y	Y	N/A	The species continues to occupy most of its historical range in northeastern California; stability of population over long-term; species of conservation need; climate vulnerable.	
Loggerhead shrike	-	-	Y	N	Y	Y	Y	N	Y	Y	N/A	Thought to occur in the RCIS Area; species of great conservation need.	
Yellow-breasted chat	-	-	Y	N	Y	Y	Y	Y	N	Y	Riparian ecosystem health and function	This species occurs in riparian habitat and has been reported from upper Putah Creek; species of conservation need.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Golden eagle <i>Aquila chrysaetos</i>	SE/FP	FD, BGPA	N	N	Y	Y	N	N	Y	N	N/A	The golden eagle is a state Fully Protected species. It is also protected under the federal Bald and Golden Eagle Protection Act. No near-term mitigation needs.	
Bell's sparrow <i>Artemisiospiza belli</i>	-	-	N	N	N	Y	N	N	N	N	N/A	No known occurrences in RCIS Area; no near-term mitigation needs.	
Short-eared owl <i>Asio flammeus</i>	-	-	Y	N	N	Y	N	N	Y	N	N/A	No known occurrences in RCIS Area; no near-term mitigation needs.	
Redhead <i>Aythya americana</i>	-	-	Y	N	N	Y	N	N	N	N	N/A	No known occurrences in RCIS Area; no near-term mitigation needs.	
American peregrine falcon <i>Falco peregrinus anatum</i>	FP	BCC	N	N	N	Y	N	N	Y	N	N/A	No known occurrences in RCIS Area; no near-term mitigation needs.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Prairie falcon <i>Falco mexicanus</i>	-	-	N	N	Y	Y	N	N	Y	N	N/A	Not Species of Special Concern or SWAP Species of Conservation Need; no near-term mitigation needs.	
Yellow-billed magpie <i>Pica nuttalli</i>	-	-	N	N	Y	Y	N	N	Y	N	N/A	Not Species of Special Concern or SWAP Species of Conservation Need; no near-term mitigation needs.	
Purple martin <i>Progne subis</i>	-	-	Y	N	N	N	N	N	Y	N	N/A	Not known to occur in RCIS Area; no near-term mitigation needs.	
Yellow-headed blackbird <i>Xanthocephalus xanthocephalus</i>	-	-	Y	N	Y	Y	N	N	Y	N	N/A	Not federally or state listed species; no near-term mitigation needs.	
Long-eared owl <i>Asio otus</i>	-	-	Y	N	N	N	N	N	Y	N	N/A	Not known to occur in RCIS Area; no near-term mitigation needs.	
Least bittern	-	-	Y	N	N	N	N	N	Y	N	N/A	Not known to occur in RCIS Area; no near-term mitigation needs.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term	Indicator	Wide-	Recommend	Indicator of	Evaluation Notes	
					Area	Data	Needs	Species	Ranging Species	as Focal Species ^e			
River otter <i>Lontra canadensis</i>	-	-	N	N	Y	Y	N	Y	N	N	Riverine health and function	Not Species of Special Concern or SWAP Species of Conservation Need; salmonids, green sturgeon, and bank swallow selected as riverine indicator species; no near-term mitigation needs.	
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	SSC	-	Y	N	Y	Y	N	N	N	Y	N/A	State species of special concern; known to occur in RCIS Area; species of great conservation need.	
San Joaquin pocket mouse <i>Perognathus inornatus</i>	-	-	Y	N	Y	N	N	N	N	N	N/A	No recent occurrence records from the RCIS area.	
Yuma myotis <i>Myotis yumanensis</i>	-	-	N	--	Y	N	N	N	Y	N	N/A	Not State or Federally listed species; no recent occurrence records from RCIS area.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data	Needs						
Pallid bat <i>Antrozous pallidus</i>	SSC	-	Y	N	N	N	N	N	Y	N	N/A	No occurrences within RCIS area; flood management activities not likely to impact species.	
Western red bat <i>Lasiurus blossevillii</i>	SSC	-	N	-	Y	N	N	N	Y	N	N/A	Not State or Federally listed species; no recent occurrence records from the RCIS area.	
American badger <i>Taxidea taxus</i>	SSC	-	Y	N	Y	Y	N	N	Y	N	N/A	Not State or Federally listed species. No near-term mitigation needs.	
Ringtail <i>Bassariscus astutus</i>	FP	-	Y	N	N	Y	N	N	Y	N	N/A	Fully Protected; no near-term mitigation needs	
Plants													
Adobe-lily <i>Fritillaria pluriflora</i>	1B	-	N	N/E	Y	Y	N	N	N	N	N	This species is broadly distributed on gently sloping hillsides with clay soils from Yolo County; no near-term mitigation needs.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation	Indicator	Wide- Ranging	Recommend as Focal	Indicator of	Evaluation Notes
					Area	Data	Needs	Species	Species	Species ^e		
Alkali milk- vetch <i>Astragalus tener</i> var. <i>tener</i>	1B	-	N	N/E	Y	Y	N	Y	N	Y	Wetland and vernal pool health and function	Found throughout RCIS Area; indicator species.
Brittlescale <i>Atriplex</i> <i>depressa</i>	1B	-	N	N/E	Y	Y	Y	N	N	Y	N	Known to occur in RCIS Area; declining due to loss of habitat through current and future development; in need of near- term mitigation
Baker's navarretia <i>Navarretia</i> <i>leucocephala</i> <i>ssp. bakeri</i>	1B	-	Y	N/E	Y	Y	Y	N	N	Y	N	Known to occur in RCIS Area; declining due to loss of habitat through current and future development; in need of near- term mitigation; species of conservation need.
Bent-flowered fiddleneck <i>Amsinckia</i> <i>lunaris</i>	1B	-	N	N/E	Y	Y	Y	N	N	Y	N	Not a federally or state listed species; no recent records from the RCIS Area; no need for near-term mitigation.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)							
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term	Indicator	Wide-	Recommend	Indicator of	Evaluation Notes
					Area	Data	Needs	Species	Ranging Species	as Focal Species ^e		
Colusa grass <i>Neostapfia colusana</i>	SE/1B	FT	Y	N/E	Y	Y	N	Y	N	Y	Wetland and vernal pool health and function	Federal and State listed species; SWAP species of conservation need; indicator species.
Colusa layia <i>Layia septentrionalis</i>	1B	-	N	N/E	N	N	N	N	N	N	N	Historic occurrence (1938) in the RCIS area; likely no longer occurs in the RCIS area.
Coulter's goldfields <i>Lasthenia glabrata ssp. coulteri</i>	1B	-	Y	N/E	N	N	N	N	N	N	N	One historic occurrence (1917) in the RCIS area; likely no longer occurs in the RCIS area.
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	1B	-	N	N/E	N	Y	Y	N	N	Y	N	Not a federally or state listed species; no recent records from the RCIS Area; no need for near-term mitigation.
Drymaria-like Western flax <i>Hesperolinon drymarioides</i>	1B	-	N	N/E	N	Y	Y	N	N	Y	N	Not a federally or state listed species; no recent records from the RCIS Area; no need for near-term mitigation.

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Dwarf downingia <i>Downingia pusilla</i>	2B	–	N	N/E	N	Y	N	Y	N	N	Vernal pool health and function	This species is not known to occur in the RCIS Area; current status uncertain. This species may benefit from the implementation of the conservation strategy for vernal pools.	
Ferris milk- vetch <i>Astragalus tener var. ferrisiae</i>	1B	–	Y	N/E	Y	N	N	N	N	N	N	No Federal or State listing; no near-term mitigation needs.	
Hall's harmonia <i>Harmonia hallii</i>	1B	–	N	N/E	Y	N	N	N	N	N	N	No Federal or State listing; no near-term mitigation needs.	
Heartscale <i>Atriplex cordulata</i> var. <i>cordulata</i>	1B	–	N	N/E	Y	N	N	N	N	N	N	No recent occurrence in RCIS Area, and likely will not need mitigation.	
Heckard's pepper-grass <i>Lepidium latipes var. heckardii</i>	1B	–	N	N/E	Y	N	N	N	N	Y	N	Occurs in RCIS Area, in need of near-term mitigation.	
Jepson's Milk- Vetch <i>Astragalus rattanii</i>	1B	–	N	N/E	Y	N	N	N	N	N	N	No Federal or State listing; no near-term mitigation needs.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS		Near Term	Indicator	Wide-	Recommend	Indicator of	Evaluation Notes	
					Area	Data	Needs	Species	Ranging Species	as Focal Species ^e			
Palmete bracted bird's-beak <i>Chloropyron palmatum</i>	SE/1B	FE	Y	N/E	Y	Y	Y	Y	N	Y	Alkali wetland and grassland ecosystem health and function.	Federal and State listed species; occurs in RCIS Area; SWAP species of conservation need.	
Mason's lilaeopsis <i>Lilaeopsis masonii</i>	R/1B	-	Y	N/E	Y	Y	N	N	Y	N	N	Occurs in RCIS Area; no near term mitigation needs.	
Morrison's jewelflower <i>Streptanthus morrisonii</i> ssp. <i>Morrisonii</i>	1B	-	N	N/E	N	N	N	N	N	N	N	No Federal or State listing; no occurrences in RCIS Area; no near-term mitigation needs.	
Rose mallow	1B	-	N	N/E	N	N	N	N	N	N	N	No Federal or State listing; no occurrences in RCIS Area; no near-term mitigation needs.	
Round-leaved filaree <i>California macrophylla</i>	1B	-	Y	N/E	N	N	N	N	N	N	N	Historic occurrences of this species in the RCIS area; likely no longer occurs in the RCIS area.	
San Joaquin spearscale <i>Extriplex joaquinana</i>	1B	-	N	N/E	Y	Y	Y	N	N	Y	N	Occurs in RCIS Area, in need of near-term mitigation.	

Status ^a					Criteria ^b (columns shaded gray are required screening criteria)								
Species	State/ CNPS	Federal	SWAP Species of Conservation Need ^c	Climate Vulnerable ^d	Occurs in RCIS Area		Near Term Mitigation Needs	Indicator Species	Wide- Ranging Species	Recommend as Focal Species ^e	Indicator of	Evaluation Notes	
					Area	Data							
Serpentine cryptantha <i>Cryptantha dissita</i>	1B	-	N	N/E	N	Y	N	N	N	N	N	Is not known to occur in RCIS Area.	
Snow Mountain buckwheat <i>Eriogonum nervulosum</i>	1B	-	Y	N/E	Y	N	N	N	N	N	N	No Federal or State listing; not known to occur in RCIS Area.	
Solano grass <i>Tuctoria mucronata</i>	E	E	Y	N/E	Y	Y	Y	Y	N	Y	Vernal pool ecosystem health and function	Federal and State listed species; SWAP species of conservation need; indicator species.	
Vernal pool smallscale <i>Atriplex persistens</i>	1B	-	N	N/E	N	Y	N	Y	N	N	Vernal pool ecosystem health and function	Not known to occur in RCIS Area; not likely to need near- term mitigation.	

Notes

^a Status

State Status

FP = Fully Protected.

SE = State listed as endangered.

ST = State listed as threatened.

SC = listed as a candidate species. A candidate species is one that the California Fish and Game Commission has formally declared a candidate species.

SR = State listed as rare.

SSC = California special concern species (July 2005 list).

Federal Status

BGPA = Bald Eagle and Golden Eagle Protection Act.

FE = Federally endangered.

FT = Federally threatened.

State Wildlife Action Plan (SWAP) Species of Great Conservation Need

Y = Listed as species of great conservation need in SWAP.

N = Not listed as species of great conservation need in SWAP.

^b Criteria

Occurs in RCIS Area: The species is known or likely to occur in the strategy area. Occurrence data should be based on credible evidence.

Data: Drawing on best available science and emerging data, sufficient data on the species' life history, habitat requirements, and occurrence within the strategy area are available to set conservation goals and objectives, assess stressors and pressures, and propose viable conservation actions.

Near Term Mitigation Needs: Species anticipated to need mitigation by potential projects in the RCIS area in the near-term.

Indicator Species: A species whose presence or absence is indicative of a particular habitat, community, or set of environmental conditions.

Wide-Ranging Species: Species that require large, contiguous, or connected blocks of habitat, whereby these species could effectively inform habitat enhancement actions

Status ^a		Criteria ^b (columns shaded gray are required screening criteria)				
Species	SWAP	Near Term Mitigation Needs	Indicator Species	Wide-Ranging Species	Recommend as Focal Species ^e	Evaluation Indicator of Notes
	FC = Candidate for federal listing.					
FPT = Federally proposed for threatened listing.						
FPD = Federally proposed for delisting.						^c State Wildlife Action Plan Criteria
FD = Federally delisted.						Criterion 1 – Listed species.
UR = Under review. Species that have been petitioned for listing and for which a 90 day finding has not been published or for which a 90 day substantial has been published but a 12 Month finding have not yet been published in the Federal Register. Also includes species that are being reviewed through the candidate process, but the Candidate Notice of Review has not yet been signed.						Criterion 2 – Species with a conservation concern (similar to CDFW’s species of concern).
						Criterion 3 – Climate vulnerable species.
						For additional information on SWAP criteria for species, see Chapter 1, Introduction, Section 1.6.3.1, Focal Species Selection.
SOC = Species of Concern (National Marine Fisheries Service designation).						^d Climate Vulnerable (as identified in the SWAP).
						Y = listed as climate vulnerable by SWAP.
						N = not listed as climate vulnerable by SWAP.
						-- = not included as a SWAP species of greatest conservation need
						N/E = plants were not evaluated for climate vulnerability in SWAP.
<i>California Native Plant Society (CNPS) Ranking</i>						^e Recommended Focal Species Status.
1A = Presumed extinct in California.						Y = recommended as focal species in RCIS.
1B = Rare or endangered in California and elsewhere.						N = not recommended as focal species in RCIS.
2 = Rare or endangered in California, more common elsewhere.						
3 = Plants about which more information is needed.						
4 = Plants of limited distribution.						

State Wildlife Action Plan Species of Greatest Conservation Need

The SWAP identifies species of greatest conservation needs based on the following three criteria.

Criterion 1 – Listed species

Criterion 1 requires that the species is listed as threatened, endangered or a candidate species in California under the ESA or CESA.

Criterion 2 – Species with a conservation concern

Criterion 2 is defined as species with a conservation concern, which is similar to California Species of Special Concern. Although this designation carries no legal protection, it is intended to focus attention on the species and stimulate research on those species in an effort to address the declining trends before the species meeting the criteria for state or federal listing. Species where take or harvest is prohibited by CDFW or NMFS are included under Criterion 2 (e.g., marine plants, fish), as well as plants with a California Rare Plant Rank of 1B.2. Invertebrates with a NatureServe Ranking of S1, which designates those species as critically imperiled.

Criterion 3 – Climate vulnerable species

Criterion 3 includes species CDFW considered in the SWAP to be highly vulnerable to climate change. Plants were not addressed under Criterion 3.

The SWAP, which encompasses these three criterion, is addressed in the species evaluation table (Appendix D, Table D-1) in the SWAP column. If a species is included in SWAP, it received a yes (Y) in the SWAP column, and if it is not included in SWAP they received a no (N). Species identified in the SWAP as climate vulnerable received a yes (Y) in the climate vulnerable column. In the status column, if a species is not federally or state listed but is considered a SWAP Species of Greatest Conservation Need, the species could be included as a focal species (if it met the optional criteria) because the SWAP listing indicates the species is seriously imperiled in California and may be state or federally listed in the next 10 years.

The SWAP was also used to inform those species included as indicator species. Indicator species are species that occur in specialized habitats, are sensitive to habitat modification, and occur in habitats that have declined and may continue to decline in the future. Many of the indicator species that occur in the RCIS area are associated with aquatic habitat, such as fish and amphibians. In addition species that occur in specialized grassland habitat, such as alkali plants, mountain plover, and American badger are also included as indicator species. Most of the indicator species are also expected to be affected by climate change. The SWAP includes a climate change vulnerability assessment, which determined the climate vulnerability evaluation in Appendix D, Table D-1.