

**APPENDIX D**  
**HCWA FAUNAL INVENTORY**



**APPENDIX D**  
**Inventory of Invertebrates Detected within the Hollenbeck Canyon Wildlife Area**

Scientific Name	Common Name	Status <sup>1</sup>	Covered by MSCP <sup>2</sup>
<b>ATHROPODA</b>			
<b>ARACHNIDA</b>			
<i>Aphonopelma</i> sp.		--/--	No
Unidentified scorpion species	Scorpion	--/--	No
<b>CRUSTACEA</b>			
* <i>Procambarus clarkii</i>	Swamp Crayfish	--/--	No
<b>INSECTA</b>			
HYMENOPTERA (Ants, Bees, Wasps)			
Family Formicidae (Ants)			
Subfamily Dolichoderinae			
<i>Dorymyrmex insanus</i>	Pyramid Ant	--/--	No
<i>Forelius foetidus</i>		--/--	No
<i>Liometopum occidentale</i>	Velvety Tree Ant	--/--	No
<i>Tapinoma sessile</i>	Malodorous House Ant	--/--	No
Subfamily Formicinae			
<i>Camponotus essigi</i>	Carpenter Ant	--/--	No
<i>Camponotus semitestaceus</i>	Carpenter Ant	--/--	No
<i>Camponotus</i> sp.	Carpenter Ant	--/--	No
<i>Formica moki</i>	Wood Ant	--/--	No
<i>Myrmecocystus mimicus</i>	Honey Pot Ant	--/--	No
<i>Myrmecocystus wheeleri</i>	Honey Pot Ant	--/--	No
<i>Prenolepis imparis</i>	Honey Pot Ant	--/--	No
Subfamily Myrmecinae			
<i>Crematogaster californica</i>	Acrobat Ant	--/--	No
<i>Crematogaster coarcata</i>	Acrobat Ant	--/--	No
<i>Crematogaster hespera</i>	Acrobat Ant	--/--	No
<i>Messor andrei</i>	Harvester Ant	--/--	No

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<i>Messor stoddardii</i>	Harvester Ant	--/--	No
<i>Myrmecina americana</i>	Harvester Ant	--/--	No
<i>Pheidole barbata</i>		--/--	No
<i>Pheidole cerebrosior</i>		--/--	No
<i>Pheidole clementensi</i>		--/--	No
<i>Pheidole hyatti</i>		--/--	No
<i>Pheidole vistana</i>		--/--	No
<i>Pogonomyrmex rugosus</i>	Harvester Ant	--/--	No
<i>Solenopsis amblychila</i>	Native Fire Ant	--/--	No
<i>Solenopsis molesta</i>	Thief Ant	--/--	No
<i>Solenopsis xyloni</i>	Native Southern Fire Ant	--/--	No
<i>Stenamma diecki</i>		--/--	No
<i>Tetramorium spinosum</i>		--/--	No
Family Pompilidae (Spider Wasps)			
<i>Pepsis formosa</i>	Tarantula Wasp	--/--	No
<b>LEPIDOPTERA</b>			
Family Hesperidae (Skippers)			
<i>Erynnis funerealis</i>	Funereal Duskywing	--/--	No
Family Lycaenidae (Blues, Hairstreaks, Coppers)			
<i>Brephidium exilis</i>	Pygmy Blue	--/--	No
<i>Callophrys dumetorum perplexa</i>	Perplexing Hairstreak	--/--	No
<i>Glaucopsyche lygdamus</i>	Southern Blue	--/--	No
<i>Icaricia acmon</i>	Acmon Blue	--/--	No
Family Nymphalidae (Brushfoots)			
<i>Ceononympha tullia</i>	California Ringlet	--/--	No
<i>Chlosyne gabbii</i>	Gabb's checkerspot	--/--	No
<b><i>Euphydryas editha quino</i></b>	<b>Quino Checkerspot Butterfly</b>	FE	NE
<i>Junonia coenia</i>	Buckeye	--/--	No
<i>Vanessa annabella</i>	Painted Lady	--/--	No
<i>Vanessa atalanta</i>	Red Admiral	--/--	No
<i>Vanessa cardui</i>	Painted Lady	--/--	No

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Family Papilionidae			
<i>Papilo eurymedon</i>	Pale Swallowtail	--/--	No
<i>Papilo rutulus rutulus</i>	Western Tiger Swallowtail	--/--	No
<i>Papilio zelicaon</i>	Anise Swallowtail	--/--	No
Family Pieridae (Whites and Sulphurs)			
<i>Anthocaris sara</i>	Sara Orangetip	--/--	No
<i>Anthocaris cethura</i>	Felder's Orangetip	--/--	No
<i>Colias philodice eriphyle</i>	Clouded Sulphur	--/--	No
<i>Pieris rapae</i>	Cabbage White	--/--	No
<i>Pontia sisymbrii</i>	Spring White	--/--	No
<i>Pontia protodice</i>	Checkered White	--/--	No
<i>Nathalis iole</i>	Dainty Sulphur	--/--	No
Family Riodinidae (Metalmarks)			
<i>Apodemia virgulti</i>	Behr's Metalmark	--/--	No

\* Introduced Species

<sup>1</sup> Status: Federal: FE – endangered

<sup>2</sup> MSCP Coverage: C- Covered, NE- Narrow Endemic

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## Inventory of Vertebrate Species Detected within the Hollenbeck Canyon Wildlife Area

Common Name	Scientific Name	Habitat <sup>1</sup>	Status <sup>2</sup>	MSCP Coverage <sup>3</sup>	Detection Method <sup>4</sup>
CLASS: OSTEICHTHYES (Bony Fish)					
ATHERINIFORMES					
POECILIDAE (Livebearers)					
*Mosquito fish	<i>Gambusia affinis</i>		–	No	AS
CLASS: AMPHIBIA (Amphibians)					
CAUDATA (Salamanders)					
PLETHODONTIDAE (Lungless Salamanders)					
Garden Slender Salamander	<i>Batrachoseps major</i>	C, S, W		No	PF
ANURA (Frogs and Toads)					
HYLIDAE (Treefrogs and relatives)					
California Tree Frog	<i>Pseudacris (Hyla) cadaverina</i>	W		No	AS
Pacific Tree Frog	<i>Pseudacris (Hyla) regilla</i>	All except F		No	OD
BUFONIDAE (True Toads)					
Western Toad	<i>Bufo boreas</i>	G, P, W		No	OD
CLASS: REPTILIA (Reptiles)					
SQUAMATA (Lizards and Snakes)					
PHRYNOSOMATIDAE					
San Diego Coast Horned Lizard	<i>Phrynosoma coronatum blainvilli</i>	C, G, S	CSC	C	PF, OD
Western Fence Lizard	<i>Sceloporus occidentalis</i>	C, G, S, W		No	PF, OD
Granite Spiny Lizard	<i>Sceloporus orcutti</i>	C, S		No	PF, OD
Common Side-blotched Lizard	<i>Uta stansburiana</i>	C, G, S		No	PF, OD
EUBLEPHARIDAE (Eyelid Geckos)					
Western Banded Gecko	<i>Coleonyx variegatus</i> <sup>4</sup>		CSC	No	OD
SCINCIDAE (Skinks)					
Gilbert's Skink	<i>Eumeces gilberti</i>			No	PF
Western Skink	<i>Eumeces skiltonianus</i>	C, G, S, W	CSC	No	PF
TEIIDAE (Whiptails and relatives)					
Orange-throated Whiptail	<i>Cnemidophorus hyperythrus</i>	C, S, W	CSC	C	PF, OD
Western Whiptail	<i>Cnemidophorus tigris</i>	C, G, S, W			PF, OD

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ANGUIDAE (Alligator Lizards and relatives)					
Southern Alligator Lizard	<i>Elgaria multicarinata</i>	C, G, S, W		No	PF
LEPTOTYPHLOPIDAE (Slender Blind Snakes)					
Western Blind Snake	<i>Leptotyphlops humilis</i>			No	PF, OD
BOIDAE (Boas)		C, S			
Coastal Rosy Boa	<i>Charina trivirgata</i> <sup>4</sup>		, CSC	C	OD
COLUBRIDAE (Colubrids)					
Ringneck Snake	<i>Diadophis punctatus</i>	C, S, W		No	PF
Common Kingsnake	<i>Lampropeltis getula</i>	C, G, S, W		No	PF
Striped Racer (California Whipsnake)	<i>Masticophis lateralis</i>	C, G, S		No	PF
San Diego Gopher Snake	<i>Pituophis catenifer annectans</i>	C, G, S, W		No	
California Black-headed Snake	<i>Tantilla planiceps</i>			No	PF
Common Garter Snake	<i>Thamnophis sirtalis</i>	all		No	OD
VIPERIDAE (Vipers)					
Red Diamond Rattlesnake	<i>Crotalus ruber ruber</i>	C, S	CSC	No	PF
Western Rattlesnake	<i>Crotalus viridis</i>	C, G, S, W		No	PF, OD
CLASS: AVES (Birds)					
CICONIIFORMES (Hérons, Storks, Ibises, and relatives)					
CATHARTIDAE (New World Vultures)					
Turkey Vulture	<i>Cathartes aura</i>	F		No	IN, OD
FALCONIFORMES (Vultures, Hawks, and Falcons)					
ACCIPITRIDAE (Hawks, Old World Vultures, and Harriers)					
Cooper's Hawk	<i>Accipiter cooperi</i>	C, S, W	CSC	C	OD
Golden Eagle	<i>Aquila chrysaetos</i>	all except S	BEPA/SFP	C, NE	BP, OD
Red-tailed Hawk	<i>Buteo jamaicensis</i>	C, G, S, W		No	BP, OD
Red-shouldered Hawk	<i>Buteo lineatus</i>	W		No	BP
Northern Harrier	<i>Circus cyaneus</i>	C, F, G, M, S	CSC	C	IN, OD
White-tailed Kite	<i>Elanus leucurus</i>	C, G	SFP	No	BP, OD
Bald Eagle	<i>Haliaeetus leucocephalus</i>	F, M, W	FT, SE, BEPA	No	OD



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FALCONIDAE (Caracaras and Falcons) American Kestrel	<i>Falco sparverius</i>	G, S, W		No	BP, OD
GALLIFORMES (Megapodes, Curassows, Pheasants, and relatives) ODONTOPHORIDAE (New World Quail) California Quail	<i>Callipepla californica</i>	C, G, S, W		No	BP, OD
CHARADRIIFORMES (Shorebirds, Gulls, and relatives) CHARADRIIDAE (Plovers and relatives) Killdeer	<i>Charadrius vociferus</i>			No	BP, OD
COLUMBIFORMES (Pigeons and Doves) COLUMBIDAE (Pigeons and Doves) Mourning Dove	<i>Zenaida macroura</i>	all		No	BP, OD
CUCULIFORMES (Cuckoos and relatives) CUCULIDAE (Typical Cuckoos) Greater Roadrunner	<i>Geococcyx californianus</i>	C, G, S, W		No	BP, RC
STRIGIFORMES (Owls) TYTONIDAE (Barn Owls) Barn Owl	<i>Tyto alba</i>	W		No	NT, OD
APODIFORMES (Swifts and Hummingbirds) APODIDAE (Swifts) White-throated Swift	<i>Aeronautes saxatalis</i>	F		No	PO
TROCHILIDAE (Hummingbirds) Black-chinned Hummingbird Anna's Hummingbird Costa's Hummingbird Allen's Hummingbird	<i>Archilochus alexandri</i> <i>Calypte anna</i> <i>Calypte costae</i> <i>Selasphorus sasin</i>	W C, S, W C, S, W C, S, W C, S, W		No No No No	<u>IN</u> BP BP BP
PICIFORMES (Woodpeckers and relatives) PICIDAE (Woodpeckers and Wrynecks) Northern Flicker	<i>Colaptes auratus</i>	C, S, W		No	IN

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Acorn Woodpecker	<i>Melanerpes formicivorus</i>	W		No	BP
Nuttall's Woodpecker	<i>Picoides nuttallii</i>	W		No	BP, OD
PASSERIFORMES (Perching Birds)					
TYRANNIDAE (Tyrant Flycatchers)					
Western Wood Pewee	<i>Contopus sordidulus</i>	W		No	OD
Pacific-Slope Flycatcher	<i>Empidonax difficilis</i>	W		No	IN, OD
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	C, S, W		No	BP
Black Phoebe	<i>Sayornis nigricans</i>	all		No	BP
Say's Phoebe	<i>Sayornis saya</i>	G, S		No	IN
Western Kingbird	<i>Tyrannus verticalis</i>	G, S, W		No	BP, OD
Cassin's Kingbird	<i>Tyrannus vociferans</i>			No	BP, OD
VIREONIDAE (Typical Vireos)					
Hutton's Vireo	<i>Vireo huttoni</i>	W		No	BP, OD
CORVIDAE (Jays, Magpies, and Crows)					
Western Scrub-Jay	<i>Aphelocoma californica</i>	C, S, W		No	BP, OD
American Crow	<i>Corvus brachyrhynchos</i>	C, F, G, S, W		No	BP, OD
Common Raven	<i>Corvus corax</i>	C, F, G, S, W		No	BP, OD
BOMBYCILLIDAE (Waxwings)					
Cedar Waxwing	<i>Bombycilla cedrorum</i>	C, S		No	
PTILOGONATIDAE (Silky Flycatchers)					
Phainopepla	<i>Phainopepla nitens</i>	C, S, W		No	BP, OD
TURDIDAE (Thrushes)					
Hermit Thrush	<i>Catharus guttatus</i>	C, S, W		No	
Swainson's Thrush	<i>Catharus ustulatus</i>			No	OD
Western Bluebird	<i>Sialia mexicana</i>	G/W		C	IN, OD
STURNIDAE (Starlings & Allies)					
*European Starling	<i>Sturnus vulgaris</i>	F, G, W		No	BP

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MIMIDAE (Mockingbirds and Thrashers)					
California Thrasher	<i>Toxostoma redivivum</i>	C, S		No	BP
TROGLODYTIDAE (Wrens)					
Canyon Wren	<i>Catherpes mexicanus</i>	C, S		No	
Rock Wren	<i>Salpinctes obsoletus</i>	C, S		No	
Bewick's Wren	<i>Thryomanes bewickii</i>	C, S, W		No	BP
House Wren	<i>Troglodytes aedon</i>	C, S, W		No	IN, OD
SYLVIIDAE (Old World Warblers and Gnatcatcher)					
Blue Gray Gnatcatcher	<i>Polioptila caerulea</i>	C, W			BP
Coastal California Gnatcatcher	<i>Polioptila californica californica</i>		FT, CSC	C	BP, OD
PARIDAE (Titmice and relatives)					
Oak Titmouse	<i>Baeolophus inornatus</i>	W		No	BP
AEGITHALIDAE (Bushtit)					
Bushtit	<i>Psaltiriparus minimus</i>	all		No	BP, OD
HIRUNDINIDAE (Swallows)					
Barn Swallow	<i>Hirundo rustica</i>	F, P		No	
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	C, F, P		No	BP, OD
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	F, P		No	BP
Violet-green Swallow	<i>Tachycineta thalassina</i>	F, P, W		No	BP
REGULIDAE (Kinglets)					
Ruby-crowned Kinglet	<i>Regulus calendula</i>	C, S, W		No	PO
TIMALIIDAE (Babblers)					
Wrentit	<i>Chamaea fasciata</i>	C, S, W		No	BP, OD
FRINGILLIDAE (Finches)					
Lawrence's Goldfinch	<i>Carduelis lawrencei</i>	C, W		No	BP
Lesser Goldfinch	<i>Carduelis psaltria</i>	all		No	BP

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American Goldfinch	<i>Carduelis tristis</i>	W		No	BP
House Finch	<i>Carpodacus mexicanus</i>	all		No	BP
EMBERIZIDAE (Emberizines)					
Southern California Rufous-crowned Sparrow	<i>Aimophila ruficeps canescens</i>	C, S	CSC	C	BP, OD
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	G, S		No	BP, OD
Bell's Sage Sparrow	<i>Amphispiza belli belli</i>	C, S	, CSC	No	BP, OD
Lark Sparrow	<i>Chondestes grammacus</i>	C, G, S, W		No	BP, OD
Song Sparrow	<i>Melospiza melodia</i>	M, W		No	BP
Savannah Sparrow	<i>Passerculus sandwichensis</i>			No	BP
Spotted Towhee	<i>Pipilo maculatus</i>	C, S		No	BP
California Towhee	<i>Pipilo crissalis</i>	C, S, W		No	BP
Vesper Sparrow	<i>Pooecetes gramineus</i>	G		No	OD
Black-chinned Sparrow	<i>Spizella atrogularis</i>	C, S		No	
Chipping Sparrow	<i>Spizella passerina</i>			No	IN
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	all		No	BP
PARULIDAE (Wood Warblers and relatives)					
Yellow-rumped Warbler	<i>Dendroica coronata</i>	all		No	BP
Hermit Warbler	<i>Dendroica occidentalis</i>			No	
Yellow Warbler	<i>Dendroica petechia</i>	W	CSC	No	BP, OD
Common Yellowthroat	<i>Geothlypis trichas</i>	M, W		No	BP
Orange-crowned Warbler	<i>Vermivora celata</i>	C, W		No	BP
Wilson's Warbler	<i>Wilsonia pusilla</i>	C, S, W		No	OD
THRAUPIDAE (Tanagers)					
Western Tanager	<i>Piranga ludoviciana</i>	W		No	BP
CARDINALIDAE (Cardinals, Grosbeaks & Allies)					
Blue Grosbeak	<i>Passerina caerulea</i>	C, S		No	BP
Lazuli Bunting	<i>Passerina amoena</i>	C, S		No	BP, RC
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>			No	IN

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ICTERIDAE (Blackbirds, Orioles & Allies)					
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	G, M, P, W		No	BP
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>			No	BP
Bullocks Oriole	<i>Icterus bullockii</i>	C, S, W		No	BP
Hooded Oriole	<i>Icterus cucullatus</i>	C, S, W		No	BP
*Brown-headed Cowbird	<i>Molothrus ater</i>	C, M, S, W		No	IN
Western Meadowlark	<i>Sturnella neglecta</i>	G, S		No	BP
CLASS: MAMMALIA (Mammals)					
INSECTIVORA (Insectivores)					
SORICIDAE (Shrews)					
Desert Shrew	<i>Notiosorex crawfordi</i>			No	PF
Ornate Shrew	<i>Sorex ornatus</i>			No	PF
CHIROPTERA (Bats)					
VESPERTILIONIDAE (Evening Bats)					
Pallid Bat	<i>Antrozous pallidus</i>	F	CSC	No	BS
Big Brown Bat	<i>Eptesicus fuscus</i>	F		No	BS
Western Red Bat	<i>Lasiurus blossevillei</i>	F		No	PO
Hoary Bat	<i>Lasiurus cinereus</i>	F		No	BS
California Myotis	<i>Myotis californicus</i>	F		No	BS
Western Small-footed Myotis	<i>Myotis ciliolabrum</i>	F		No	BS
Long-eared Myotis	<i>Myotis evotis</i> <sup>4</sup>	F		No	IN
Yuma Myotis	<i>Myotis yumanensis</i>	F		No	BS
Western Pipistrelle	<i>Pipistrellus hesperus</i>	F			BS
MOLOSSIDAE (Free-tailed Bats)					
Western Mastiff Bat	<i>Eumops perotis</i>	F	CSC	No	BS
Pocketed Free-tailed Bat	<i>Nyctinomops femorosacca</i>	F	CSC	No	BS
Big Free-tailed Bat	<i>Nyctinomops macrotis</i>	F	CSC	No	OD
Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>	F			BS
LAGOMORPHA (Rabbits, Hares, and Pikas)					
LEPORIDAE (Rabbits and Hares)					
Black-tailed Jackrabbit	<i>Lepus californicus</i>	C, G, S	CSC	No	RC

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Desert Cottontail	<i>Sylvilagus audubonii</i>	C, G, S, W		No	RC, TS
RODENTIA (Rodents)					
SCIURIDAE (Squirrels, Chipmunks, and Marmots)					
California Ground Squirrel	<i>Spermophilus beecheyi</i>	C, G, S, W		No	TS
GEOMYIDAE (Pocket Gophers)					
Botta's Pocket Gopher	<i>Thomomys bottae</i>	G, S, W		No	PF
HETEROMYIDAE (Pocket Mice and Kangaroo Rats)					
California Pocket Mouse	<i>Chaetodipus californicus</i>	C, W	CSC	No	PO
San Diego Pocket Mouse	<i>Chaetodipus fallax fallax</i>	S, W	CSC	No	PF, ST
San Diego or San Bernardino Kangaroo Rat	<i>Dipodomys simulans</i>	C, S		No	PF, ST
MURIDAE (Mice, Rats, and Voles)					
California Vole	<i>Microtus californicus</i>	G, S		No	PF
*House Mouse	<i>Mus musculus</i>			No	ST
Dusky-footed Woodrat	<i>Neotoma fuscipes</i>	C, W		No	PO
Desert Woodrat	<i>Neotoma lepida</i>	C, S, W	CSC	No	PF, ST
Brush Mouse	<i>Peromyscus boylii</i>	C, S, W		No	PO
California Mouse	<i>Peromyscus californicus</i>	C, S, W		No	PF
Cactus Mouse	<i>Peromyscus eremicus</i>	S		No	PF, ST
Deer Mouse	<i>Peromyscus maniculatus</i>	C, G, S, W		No	PF, ST
Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	G, S, W		No	PF
CARNIVORA (Carnivores)					
CANIDAE (Foxes, Wolves, and relatives)					
*Domestic Dog	<i>Canis familiaris</i>	C, W		No	RC, TS
Coyote	<i>Canis latrans</i>	C		No	RC, TS
Gray Fox	<i>Urocyon cinereoargenteus</i>	C, G, S, W		No	TS

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PROCYONIDAE (Raccoons and relatives)					
Ringtail	<i>Bassariscus astutus</i>	C, W		No	PO
Raccoon	<i>Procyon lotor</i>	M, P, S, W		No	TS
MUSTELIDAE (Weasels and relatives)					
Long-tailed Weasel	<i>Mustela frenata</i>	G, W		No	OD
MEPHITIDAE (Skunks)					
Striped Skunk	<i>Mephitis mephitis</i>	S, W		No	RC, TS
FELIDAE (Cats)					
Bobcat	<i>Lynx rufus</i>	C, S, W		No	RC, TS
Mountain Lion	<i>Felis concolor</i>	all except F		C	RC
ARTIODACTYLA (Even-toed Ungulates)					
CERVIDAE (Deer, Elk, and relatives)					
Mule Deer	<i>Odocoileus hemionus</i>	all except F		C	RC, TS

<sup>1</sup> Habitat: C – chaparral and open, F – flyover, G – Grassland, M – Freshwater Marsh, P – Pond/Water, S – coastal sage scrub, W – Riparian and Oak woodlands

<sup>2</sup> Status: Federal: FE – endangered, FT – threatened, FFP – fully protected, BEPA – Bald Eagle Protection Act, FD – federally delisted. State: SE – endangered, ST – threatened, CSC – special concern, SFP – fully protected.

<sup>3</sup> MSCP Coverage: C – Covered, NE – Narrow Endemic

<sup>4</sup> Detection Method Codes

Methods used during 1998-2004 USGS baseline surveys: PO – Potentially Occurring; AS - Aquatic Survey, BP - Bird Point Count Survey, BS - Bat Survey,

IN - Incidental, NT - Night Time Bird Point Count Survey, PF - Pitfall Survey, RC - Remote Camera, ST - Sherman Trap, TS- Track Station.

Observations made before or after USGS baseline surveys: OD – Other Data Sources (incidental sightings or surveys conducted by CDFG, Wildland Inc, Dudeck & Associates, SDNHM Bird Atlas Project, and Lettieri-McIntyre and Associates)

\* Introduced species