

Table 6–2. Survey Area and Timing of Preconstruction Surveys for Permanent Development Projects

Covered Species	Pre-construction Surveys are Required	Survey Purpose	Land Cover Types and Site Conditions Requiring Preconstruction Surveys ¹	Additional Survey Area - Distance from the Project Boundary (feet)	Survey Period for Determining Species Presence/Absence	Survey Method ²
<i>Bird Species</i>						
Tricolored blackbird	Yes ³	Determine if active nesting colonies are present	Suitable nesting habitat	1,300	March 15 to June 15	Kelsey 2008
Yellow-breasted chat	Yes	Determine if nest sites are present	Suitable nesting habitat	None	April 1 to July 30	Call surveys to locate nesting territories and nest sites
Bank swallow	Yes ³	Determine if active nesting colonies are present	Suitable channel bank nesting substrate	200	April 1 to August 15	Visual surveys for individuals and recent burrows (fresh scrape marks, clean and well maintained burrows)
Western burrowing owl	Yes	Determine if occupied burrows are present	Suitable burrow substrate in modeled habitat	500	February 15 to July 15 (breeding season) September 1 through January 31 (non-breeding season)	DFG 2012

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Western yellow-billed cuckoo	Yes ³	Determine if occupied nest site is present	Patches of cottonwood-willow riparian greater than 25 acres that are entirely or partially within the project site	1,300	June 15 to August 10	Laymon 1998
Greater sandhill crane	Yes ³	Determine if active roost site is present	Suitable roosting habitat in modeled habitat	2,600	October 15 to February 15	Visual surveys from 1 hour before sunrise to 1 hour after sunrise
California black rail	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
American peregrine falcon	Yes ³	Determine if occupied nest site is present	Suitable rock face nesting habitat in modeled habitat	500	March 15 to August 15	Visual surveys
Swainson’s hawk White-tailed kite	Yes	Determine if occupied nest site is present	Suitable nesting trees	1,300	March 15 to August 15	SWHTAC 2000
Bald eagle	Yes ³	Determine if occupied nest site is present Determine if active roost site is present	Suitable nesting trees in modeled habitat Suitable roosting trees in modeled habitat	1,300	March 1 to June 30	Jackman and Jenkins 2004

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Reptile Species						
Giant garter snake	Yes	Determine if suitable habitat is present	Modeled habitat	None	Year long	Presence of habitat requirements as defined in Appendix A, <i>Covered Species Accounts</i>
Blainville’s horned lizard	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Western pond turtle	No ⁵	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Amphibian Species						
Foothill yellow-legged frog	No ⁵	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Western spadefoot toad	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Fish Species						
Central Valley steelhead Central Valley spring-run Chinook salmon Central Valley fall/late fall-run Chinook salmon Green sturgeon	No ⁵	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Invertebrate Species						
Valley elderberry longhorn beetle	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Vernal pool tadpole shrimp Vernal pool fairy shrimp	No ⁵	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Conservancy fairy shrimp	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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<i>Plant Species</i>						
Ferris’ milkvetch Lesser saltscale Hoover’s spurge Ahart’s dwarf rush Red Bluff dwarf rush Butte County meadowfoam Veiny Monardella Hairy Orcutt grass Slender Orcutt grass Ahart’s paronychia California beaked-rush Butte County checkerbloom Butte County golden clover Greene’s tuctoria	No ⁴	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

¹Suitable habitat for the covered species is described for each species in Appendix A, *Covered Species Accounts*.

²See Appendix E, *Survey Protocols*. Survey methods as dated are the methods that will be used under the BRCP. Any future changes in these survey methods must be approved by BCAG.

³Preconstruction surveys are not required if habitat is not located during planning surveys (AMM1) or planning surveys were conducted during the survey period immediately preceding the initiation of project construction activities.

⁴Planning surveys are required for this species (see Table 6–1). Consequently, preconstruction surveys are not required.

⁵Presence of this species in its modeled habitat is assumed and, therefore, surveys are not required.