

**Table 8-5: Summary of requested potential take/habitat loss for California red-legged frogs, callippe silverspot butterfly, giant garter snake, Swainson’s hawk and burrowing owl**

Individual Species	Maximum Potential Take/Habitat Loss Summary			Conservation Summary
	Urban Development (Zone 1)	Irrigation and Flood Control Operations and Maintenance (Zone 2)	Preserve Management and Implementation (Zone 3)	
California red-legged frog	1,100 acres within the California Red-legged Frog Conservation Area and up to 1,190 acres within the potential range of this species.	maximum 1 mile/1 acre of temporary impact to aquatic and associated upland and 180 acres within Recovery Area for remote facilities	Salvage, recovery, and relocation of all life stages of California red-legged frog and minor development and maintenance of dirt/gravel roads, trails, and day use facilities	<p>Preserve and/or actively manage a total of 3,300 acres of inner coast range upland, riparian and aquatic habitats in perpetuity for the benefit of California red-legged frogs within the California Red-legged Frog Conservation Area.</p> <p>Minimize activities that lead to expansion of predator (bullfrog, crayfish, and warm water fish) populations (range and numbers) into undeveloped areas in the remainder of the western portion of the County. Control populations of nonnative predators and competitors.</p>
callippe silverspot butterfly	Requested take is no more than 10% of any area supporting larval hosts plants with a density greater than 100 viola plants per 40 acres and approximately 1,210 acres of habitat within the Callippe Silverspot Butterfly Conservation Area..	No adverse effects are anticipated	No more than 10% of any area supporting larval hosts plants with a density greater than 100 viola plants per 40 acres	Preserve and actively manage 3,500 acres of inner coast range habitats in perpetuity for the benefit of Callippe silverspot butterfly within the Callippe Silverspot Butterfly Conservation Area. Unavoidable impacts for permanent or temporary activities to breeding habitat and adult feeding habitat require re-establishment of such habitats at a 3:1 ratio in areas known to support the butterfly.
giant garter snake	Maximum take from Zone 1 covered activities would be approximately 30 acres of open water and marsh habitat and 33 acres of associated uplands planned for development in Rio Vista.	Take request for Zone 2 covered activities would be temporary impacts to 170 acres of aquatic habitat and 22 acres of upland habitat (10% of the 220 acres total).	Temporary impacts to giant garter snake habitat may also occur as the result of restoring 175 acres of aquatic and 121 acres of associated upland habitat.	Acquire, enhance, and manage 175 acres of aquatic and 121 acres of associated upland habitat for the giant garter snake.

Individual Species	Maximum Potential Take/Habitat Loss Summary			Conservation Summary
	Urban Development (Zone 1)	Irrigation and Flood Control Operations and Maintenance (Zone 2)	Preserve Management and Implementation (Zone 3)	
Swainson's hawk	Take of 27 known Swainson's hawk nest trees and a maximum of 13,020 acres of potential foraging habitat.	No currently occupied nests would be taken. Potential conversion of 47,890 acres of foraging habitat from SID Potential Annexation Areas.	Activities associated with reserve and preserve management are not anticipated to result in take of this species.	Preserve and actively manage 5,770 acres of agricultural foraging habitat within the Swainson's Hawk Irrigated Agriculture Potential Reserve Areas, 4,390 acres of valley floor grassland habitat and up to 1,000 acres of foraging habitat within the Inner Coast Range. Preservation of up to 27 known nest trees within the Solano HCP reserve system.
burrowing owl	14 known burrow sites and 13,020 acres of potential foraging habitat and within Zone 1.	Potential loss or damage to an unknown number of burrow sites. No take of occupied burrows will be allowed.	Activities associated with reserve and preserve management are not anticipated to result in take of this species. If agencies can authorize active relocation of nesting owls, no more than five pairs will be relocated per Plan Participant per year.	Preserve and actively manage 5,700 acres of agricultural foraging habitat within the Swainson's Hawk Irrigated Agriculture Potential Reserve Areas, between 10,500 and 11,500 acres of valley floor grassland habitat and up to 3,300 acres of foraging habitat within the Inner Coast Range. Install and maintain artificial burrow complexes on agricultural preserves and provide sufficient burrow densities on grassland reserves.