

**TABLE Z
AVOIDANCE AND MINIMIZATION MEASURES AND
BEST MANAGEMENT PRACTICES
FOR SPECIAL STATUS SPECIES POTENTIALLY OCCURRING
WITHIN THE PROJECT ACTION AREA OF FLOOD CONTROL DISTRICTS**

	Riparian/Freshwater Marsh	Tidal Wetland/Mudflat	Riverine (Aquatic)	Upland Areas	Special Management Areas (SMA)
Species	<p><i>Federal Listed Species.</i> California red-legged frog Valley elderberry longhorn beetle Kenwood marsh checkermallow</p> <p><i>Federal Proposed Species.</i> California tiger salamander</p>	<p><i>Federal Listed Species.</i> California clapper rail California least tern Western snowy plover Saltmarsh harvest mouse Palmate-bracted bird's beak Soft bird's beak Suisun thistle</p> <p><i>State Listed Species.</i> California black rail</p> <p><i>Species That May Become Listed.</i> Suisun song sparrow Suisun orate shrew Saltmarsh wandering shrew</p>	<p><i>Federal Listed Species.</i> California freshwater shrimp Delta smelt³ Steelhead-Central California coast ESU</p>	<p><i>Federal Listed Species.</i> Vernal pool fairy shrimp Vernal pool tadpole shrimp Valley elderberry longhorn beetle California tiger salamander (Sonoma County) Burke's goldfields Contra Costa goldfields Contra Costa wallflower Palmate-bracted bird's beak Showy Indian clover White-rayed pentachaeta Yellow larkspur</p> <p><i>Federal Proposed Species.</i> California tiger salamander</p> <p><i>State Listed Species.</i> Swainson's hawk</p> <p><i>Species That May Become Listed.</i> Western burrowing owl</p>	<p><i>SMA 1: Vernal pool tadpole shrimp and Contra Costa goldfields.</i> Defined as the City of Fremont (see Figure 1).</p> <p><i>SMA 2: Vernal pool fairy shrimp, Palmate-bracted bird's beak.</i> Defined as Springtown (see Figure2).</p> <p><i>SMA 3: Vernal pool fairy shrimp, Vernal pool tadpole shrimp, Valley elderberry longhorn beetle, Swainson's hawk and Contra Costa goldfields.</i> Defined generally east of a line drawn between Fairfield in Solano County and Cedar Mountain in Alameda County (see Figure 3).</p> <p><i>SMA 4: California freshwater shrimp.</i> Defined as Sonoma Creek (see Figure 4).</p> <p><i>SMA 5: California tigers/Salamander.</i> Defined as that area within SCWA's Zone 2A (see Figure 5).</p> <p><i>SMA 6: Western snowy plover.</i> Defined as known plover nesting areas (see Figure 6).</p> <p><i>SMA 7: Salt marsh harvest mouse.</i> Defined as known presence and suitable habitats adjacent to the Bay (see Figure 7).</p>
Avoidance & Minimization Measures¹	GEN-1 through GEN-5; AMP-1, AMP-2; FIS-1, INV-3, PLA-1.	GEN-1 through GEN-5; BIR-3, BIR-4; MAM-1; PLA-1, PLA-2.	GEN-1 through GEN-5; FIS-1; INV-2.	GEN-1 through GEN-5; AMP-2; BIR-1, BIR-2; INV-1, INV-3; PLA-1, PLA-2	GEN-1 through GEN-5; BIR-1, BIR-4; INV-1 through INV-3; MAM-1, PLA-2.
BMPs²	CU-1 through CU-8; EV-1, EV-2; NR-1 through NR-3; SC-1 through SC-4; SS-1 through SS-4; VDM-1 through VDM-4; VR-4a, VR-4b.	CU-1 through CU-8; EV-1, EV-2; NR-3; SC-1 through SC-4; SS-1 through SS-4; VDM-1 through VDM-4.	CU-1 through CU-8; EV-1, EV-2; NR-1 through NR-3; SC-1 through SC-6; SS-1 through SS-4; VDM-1 through VDM-4; VR-1, VR-2; WD-4, WD-5.	CU-1 through CU-7; EV-1, EV-2; SC-1 through SC-6; NR-3; SS-1, SS-2, SS-4; VDM-1 through VDM-4.	CU-1 through CU-8; EV-1, EV-2; NR-1 through NR-3; SC-1 through SC-6; SS-1 through SS-4; VDM-1 through VDM-4; VR-1, VR-2; WD-4, WD-5.

1. Specific avoidance and minimization measures (AMMs) are described in detail in the *Avoidance and Minimization Measures for Federal or State Listed Species, Federal Candidate or Proposed Species, and Species that may become Listed.*

2. Best management practices (BMPs) are from the *BASMAA Operational Permits Committee Flood Control Facility Maintenance Best Management Practices: A Manual for Minimizing Environmental Impacts from Stream and Channel Maintenance Activities*, June 2000.

3. Delta smelt are not known to occur within the maintenance activity areas. BMPs listed for this habitat would avoid indirect impacts on delta smelt potentially occurring downstream of the maintenance activity area.

Key to Abbreviations:

Best Management Practices

CU = Chemical Use
EV = Equipment and Vehicles
NR = Natural Resource Protection and Restoration
SC = Sediment Control
SS = Soil Stabilization
VDM = Vegetation and Debris Management
VR = Velocity Reduction
WD = Water Diversion

Avoidance and Minimization Measures

GEN = General
AMP = Amphibian
BIR = Bird
FIS = Fish
INV = Invertebrate
MAM = Mammal
PLA = Plant

