Appendix C - Sensitive Species Maps

The following maps present known occurrences of 24 sensitive species assessed in this report across 25 watershed units (source: California Natural Diversity Database, downloaded March 2018). These occurrences are mapped in relation to mapped *Arundo* stands and are divided into three sets of 13 maps. Each set covers the following taxonomic groups:

- **Set 1:** Plant and mammal occurrences (C1-13)
- **Set 2:** Insect, bird and herp occurrences (C14-26)
- **Set 3:** Fish occurrences (C27-39)

The series of maps within each set are arranged from north to south. Each map covers one or more watershed units per map as follows:

- **Map 1** - Sac River Headwaters: Castle-Stillwater Creeks Watershed Unit
- **Map 2** - Cottonwood Creek, Elder Creek, Thames Creek & Antelope-Mill Creek Watershed Units
- **Map 3** - Stony Creek Watershed Unit
- **Map 4** - Feather River-Chico-Butte Creeks Watershed Unit
- **Map 5** - Cache-Putah Creeks, Colusa Trough-Stone Corral-Freshwater Creeks & Ulatis Creek Watershed Units
- **Map 6** – Bear-Yuba River & American-Mokelumne Rivers-Deer Creek Watershed Units
- **Map 7** - Los Banos-Panoche-Salado Creeks-San Joaquin River Watershed Unit
- **Map 8** - Chowchilla-Fresno Rivers, San Joaquin River & Kings River Watershed Units
- **Map 9** - Sac River Middle: Stony to Cache Creeks Sacramento Main Stem Reach
- **Map 10** - Tulare Lake-Los Gatos Creek, Kaweah-Tule River & Kern River Watershed Units
- **Map 11** - Sac River Upper: Cottonwood to Thames Creeks - Sacramento Main Stem Reach
- **Map 12** - Sac River Middle: Stony to Cache Creeks - Sacramento Main Stem Reach
- **Map 13** - Sac River Lower: Cache to Putah Creeks - Sacramento Main Stem Reach
APPENDIX C

Sensitive Species Maps – Plants and Mammals

Map prepared in March 2020 by California Invasive Plant Council (www.ciplc.org) for the California Wildlife Conservation Board, Agreement No. WC-3551-MM.

Arundo donax
Major Rivers / Streams
Central Valley Watershed Units
Sensitive species occurrences (CNVDD March, 2018)
Buena Vista Lake ornate shrew

Delta tule pea
Mason’s Blaeberry
San Joaquin kit fox
Sanford’s arrowhead
Suisun Marsh aster

riparian (San Joaquin Valley)
woodrat
riparian brush rabbit
salt-marsh harvest mouse
woolly rose-mallow

Sensitive Plant and Mammal Occurrences
Map 10 of 13
Central Valley Arundo: Distribution, Impacts and Management
APPENDIX C
Sensitive Species Maps – Plants and Mammals

Map prepared in March 2020 by California Invasive Plant Council (www.cal-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-3563-MM.

Sensitive species occurrences (CNDDB March 2018)
Central Valley Watershed Units
Major Rivers/Streams
Buena Vista Lake ornate thistle
Delta tule pea
Mason's blakeopsis
San Joaquin kit fox
Sanford's arrowhead
Suwannee arrowhead
woolly rose mallow
Delta tule peapod
woolly rose mallow
woolly rose mallow
woolly rose mallow
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APPENDIX C
Sensitive Species Maps – Insects, Birds, and Herps

Map prepared in March 2020 by California Invasive Plant Council (www.cal-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC19512MM.

Source: Esri, HERE, Garmin, Intermap, Terrestris, USGS, FAO, NPS, NRCAN, GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, EstiMap, Getymap, Esri Japan, METI, Esri China (Hong Kong) Ltd. (c) OpenStreetMap contributors and the GIS User Community.

Sensitive insects, birds & herp occurrences
Map 10 of 13
Central Valley Arundo: distribution, impacts and management

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APPENDIX C

Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.ca-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-15801MM.

Aruna donax
Major Rivers / Streams
Central Valley Watershed

Sensitive species occurrences (CNDDB March, 2018)

Delta smelt

Chinook salmon - Central Valley spring-run ESU
Chinook salmon - Sacramento River winter-run ESU
Longfin smelt
Steinhef - Central Valley DPS

Sensitive Fish Occurrences
Map 1 of 13
Central Valley Arundo:
Distribution, Impacts and Management
APPENDIX C

Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.cailpc.org) for the California Wildlife Conservation Board, Agreement No. WC-1593-MM.

- Anunci dionax
- Major Rivers / Streams
- Central Valley Watershed Units
- Sensitive species occurrences (CNDDB, March, 2018)
- Delta smelt

Sensitive Fish Occurrences
Map 2 of 13
Central Valley Arundas: Distribution, Impacts and Management
APPENDIX C
Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.cal-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-1582/MM.

Sensitive Fish Occurrences
Map 5 of 13
Central Valley Arundo: Distribution, Impacts and Management
APPENDIX C

Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.cal-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-1500-MM.

Sensitive Fish Occurrences

Map 7 of 13
Central Valley Arundo:
Distribution, Impacts and Management

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APPENDIX C

Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.ca-invasive.org) for the California Wildlife Conservation Board, Agreement No. WC-150315M.

Sensitive Fish Occurrences

Map 8 of 13
Central Valley Arundo: Distribution, Impacts and Management

Map legend:
- Delta smelt
- Chinook salmon - Central Valley spring-run ESU
- Chinook salmon - Sacramento River winter - run ESU
- Longfin smelt
- Steelhead - Central Valley DPS
- Steelhead - Central Valley DPS
Sensitivity Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.cal-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-1561-MM.

Sensitive Fish
Occurrences
Map 10 of 13
Central Valley Acridans: Distribution, Impacts and Management
APPENDIX C

Sensitive Species Maps – Fish

Map prepared in March 2020 by California Invasive Plant Council (www.ca-ipc.org) for the California Wildlife Conservation Board, Agreement No. WC-15001MM.

Legend:
- Anurca donax
- Major Rivers / Streams
- Central Valley Watershed Units
- Sensitive species occurrences (CNDD March, 2019)
- Delta smelt
- Chinook salmon - Central Valley spring-run ESU
- Chinook salmon - Sacramento River winter-run ESU
- Longfin smelt
- Steelhead - Central Valley DPS

Sensitive Fish Occurrences
Map 12 of 13
Central Valley Arundo: Distribution, Impacts and Management

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