

APPENDIX E

Species Scientific/Common Names
(Including CNDDDB, CNPS, and USFWS Lists of
Special Status Species)



Selected Elements by Scientific Name

California Department of Fish and Game

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	None	G2G3	S2	SSC
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020	None	None	G1	S1	
<i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010	None	None	G1	S1	
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Ardea alba</i> great egret	ABNGA04040	None	None	G5	S4	
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3	None	None	G1T1	S1	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S2	SSC
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered	None	G1	S1	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S2S3	
<i>Brasenia schreberi</i> watershield	PDCAB01010	None	None	G5	S2	2.3
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S2	
<i>California macrophylla</i> round-leaved filaree	PDGER01070	None	None	G2	S2	1B.1
<i>Campylopodiella stenocarpa</i> flagella-like atractylocarpus	NBMUS84010	None	None	G5	S1?	2.2
<i>Castilleja rubicundula ssp. rubicundula</i> pink creamsacs	PDSCR0D482	None	None	G5T2	S2	1B.2
<i>Chamaesyce hooveri</i> Hoover's spurge	PDEUP0D150	Threatened	None	G2	S2	1B.2
<i>Clarkia gracilis ssp. albicaulis</i> white-stemmed clarkia	PDONA050J1	None	None	G5T2	S2.2?	1B.2
<i>Coastal and Valley Freshwater Marsh</i> Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
<i>Delphinium recurvatum</i> recurved larkspur	PDRAN0B1J0	None	None	G3	S3	1B.2
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Didymodon norrisii</i> Norris' beard moss	NBMUS2C0H0	None	None	G3G4	S3S4	2.2
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3?	SSC
<i>Fritillaria eastwoodiae</i> Butte County fritillary	PMLIL0V060	None	None	G3Q	S3	3.2
<i>Fritillaria pluriflora</i> adobe-lily	PMLIL0V0F0	None	None	G3	S3	1B.2
Great Valley Cottonwood Riparian Forest Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
Great Valley Mixed Riparian Forest Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	S2.2	
Great Valley Valley Oak Riparian Forest Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
Great Valley Willow Scrub Great Valley Willow Scrub	CTT63410CA	None	None	G3	S3.2	
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S2	FP
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G4	S2.2	1B.2
<i>Imperata brevifolia</i> California satintail	PMPOA3D020	None	None	G2	S2.1	2.1
<i>Juncus leiospermus var. leiospermus</i> Red Bluff dwarf rush	PMJUN011L2	None	None	G2T2	S2.2	1B.1
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3?	SSC
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4?	
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G4T1	S1	FP
<i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G3	S2S3	
<i>Limnanthes floccosa ssp. californica</i> Butte County meadowfoam	PDLIM02042	Endangered	Endangered	G4T1	S1	1B.1
<i>Limnanthes floccosa ssp. floccosa</i> woolly meadowfoam	PDLIM02043	None	None	G4T4	S3.2	4.2
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G3	S2S3	



Selected Elements by Scientific Name

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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4?	
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Northern Volcanic Mud Flow Vernal Pool Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	G1	S1.1	
<i>Oncorhynchus tshawytscha</i> chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	G5	S1	
<i>Pandion haliaetus</i> osprey	ABNKC01010	None	None	G5	S3	WL
<i>Paronychia ahartii</i> Ahart's paronychia	PDCAR0L0V0	None	None	G2	S2	1B.1
<i>Rhynchospora californica</i> California beaked-rush	PMCYP0N060	None	None	G1	S1.1	1B.1
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2S3	
<i>Sidalcea robusta</i> Butte County checkerbloom	PDMAL110P0	None	None	G2	S2	1B.2
<i>Spea hammondi</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Stuckenia filiformis</i> slender-leaved pondweed	PM POT03090	None	None	G5	S1S2	2.2
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S4	SSC
<i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
<i>Tuctoria greenei</i> Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
<i>Vulpes vulpes necator</i> Sierra Nevada red fox	AMAJA03012	None	Threatened	G5T3	S1	
<i>Wolffia brasiliensis</i> Brazilian watermeal	PMLEM03020	None	None	G5	S1.3	2.3

Record Count: 58

CNPS *California Native Plant Society* Inventory of Rare and Endangered Plants

Plant List

27 matches found. [Click on scientific name for details](#)

Search Criteria

Found in 9 Quads around 39121F8

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Astragalus pauperculus	depauperate milk-vetch	Fabaceae	annual herb	4.3	S3.3	G3
Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	annual herb	1B.1	S1	G1T1
Azolla microphylla	Mexican mosquito fern	Azollaceae	annual / perennial herb	4.2	S3.2?	G5
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb	2.3	S2	G5
California macrophylla	round-leaved filaree	Geraniaceae	annual herb	1B.1	S2	G2
Campylopodia stenocarpa	flagella-like atractylocarpus	Dicranaceae	moss	2.2	S1?	G5
Castilleja rubicundula ssp. rubicundula	pink creamsacs	Orobanchaceae	annual herb	1B.2	S2	G5T2
Centromadia parryi ssp. rudis	Parry's rough tarplant	Asteraceae	annual herb	4.2	S3.2	G4T3
Chamaesyce hooveri	Hoover's spurge	Euphorbiaceae	annual herb	1B.2	S2	G2
Clarkia gracilis ssp. albicaulis	white-stemmed clarkia	Onagraceae	annual herb	1B.2	S2.2?	G5T2
Delphinium recurvatum	recurved larkspur	Ranunculaceae	perennial herb	1B.2	S3	G3
Didymodon norrisii	Norris' beard moss	Pottiaceae	moss	2.2	S3S4	G3G4
Fritillaria eastwoodiae	Butte County fritillary	Liliaceae	perennial bulbiferous herb	3.2	S3	G3Q
Fritillaria pluriflora	adobe-lily	Liliaceae	perennial bulbiferous herb	1B.2	S3	G3
Hibiscus lasiocarpus var. occidentalis	woolly rose-mallow	Malvaceae	perennial rhizomatous herb	1B.2	S2.2	G4
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	2.1	S2.1	G2
Juncus leiospermus var. leiospermus	Red Bluff dwarf rush	Juncaceae	annual herb	1B.1	S2.2	G2T2
Limnanthes floccosa ssp. californica	Butte County meadowfoam	Limnanthaceae	annual herb	1B.1	S1	G4T1
Limnanthes floccosa ssp. floccosa	woolly meadowfoam	Limnanthaceae	annual herb	4.2	S3.2	G4T4
Monardella venosa	veiny monardella	Lamiaceae	annual herb	1B.1	S1.1	G1
Navarretia nigelliformis ssp. nigelliformis	adobe navarretia	Polemoniaceae	annual herb	4.2	S3.2	G4T3
Paronychia ahartii	Ahart's paronychia	Caryophyllaceae	annual herb	1B.1	S2	G2

Rhynchospora californica	California beaked-rush	Cyperaceae	perennial rhizomatous herb	1B.1	S1.1	G1
Sidalcea robusta	Butte County checkerbloom	Malvaceae	perennial rhizomatous herb	1B.2	S2	G2
Stuckenia filiformis	slender-leaved pondweed	Potamogetonaceae	perennial rhizomatous herb	2.2	S1S2	G5
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	1B.1	S1	G1
Wolffia brasiliensis	Brazilian watermeal	Araceae	perennial herb	2.3	S1.3	G5

Suggested Citation

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U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office

**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 121030043034

Database Last Updated: September 18, 2011

Quad Lists

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Critical habitat, Conservancy fairy shrimp (X)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

valley elderberry longhorn beetle (T)

Lepidurus packardii

Critical habitat, vernal pool tadpole shrimp (X)

vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

Critical Habitat, Central Valley spring-run chinook (X) (NMFS)

Critical habitat, winter-run chinook salmon (X) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

Plants

Chamaesyce hooveri

Hoover's spurge (T)

Limnanthes floccosa ssp. californica

Butte County (Shippee) meadowfoam (E)

Critical habitat, Butte County (Shippee) meadowfoam (X)

Orcuttia tenuis

slender Orcutt grass (T)

Tuctoria greenei

Greene's tuctoria (=Orcutt grass) (E)

Candidate Species

Birds

Coccyzus americanus occidentalis

Western yellow-billed cuckoo (C)

Quads Containing Listed, Proposed or Candidate Species:

CHICO (577A)

ORD FERRY (577B)

LLANO SECO (577C)

NELSON (577D)

HAMILTON CITY (578A)

GLENN (578D)

NORD (593C)

RICHARDSON SPRINGS (593D)

FOSTER ISLAND (594D)

County Lists

No county species lists requested.

Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) *Vacated* by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to

listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts.

[More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 28, 2013.

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
Special-Status Plant Species Known to Occur in the Project Area.					
There are no known occurrences of special-status species in the Project area.					
Special-Status Plant Species Potentially Occurring in the Project Area.					
<i>Astragalus tener</i> var. <i>ferrisiae</i> Ferris' milk-vetch	—	1B.1	Vernally mesic wetlands or grasslands <150 feet.	This plant may occur in areas receiving spring moisture within the following vegetation communities: <ul style="list-style-type: none"> perennial grasslands (purple needle grass grasslands); open, grassy areas in the understory of valley foothill riparian habitats (blue elderberry stands, California sycamore woodlands, or box-elder forest) and valley oak woodland habitats (valley oak woodlands). 	The closest record for this species is approximately 5 miles north of the Project area (CNDDDB 2012).
<i>Centromadia parryi</i> ssp. <i>rudis</i> Parry's rough tarplant	—	4.2	Vernally mesic areas in valley and foothill grassland <400 feet	This plant may occur in areas receiving spring moisture within the following vegetation communities: <ul style="list-style-type: none"> perennial grasslands (purple needle grass grasslands); open, grassy areas in the understory of valley foothill riparian habitats (blue elderberry stands, California sycamore woodlands, or box-elder forest) and valley oak woodland habitats (valley oak woodlands). 	Populations presumed extant in the following USGS 7.5-minute quads in the vicinity of the Project area: Llano Seco and Glenn (CNPS 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Delphinium recurvatum</i> recurved larkspur	—	1B.2	Poorly drained, fine, alkaline soils in grasslands <2,000 feet.	This plant may occur in fine alkaline soils within the following vegetation communities: <ul style="list-style-type: none"> perennial grasslands (purple needle grass grasslands); open, grassy areas in the understory of valley foothill riparian habitats (blue elderberry stands, California sycamore woodlands, or box-elder forest) and valley oak woodland habitats (valley oak woodlands). 	The closest record for this species is approximately 16 miles southeast of the Project area (CNDDDB 2012).
<i>Fritillaria eastwoodiae</i> Butte County fritillary	—	3.2	Chaparral, cismontane woodland, lower montane coniferous forest. Usually on dry slopes but also found in wet places; soils can be serpentine, red clay, or sandy loam. <5,100 feet.	This plant may occur in sandy loam soils within the following vegetation communities: <ul style="list-style-type: none"> valley foothill riparian habitats (blue elderberry stands); valley oak woodland habitats (valley oak woodlands). 	The closest record for this species is approximately 8 miles southeast of the Project area (CNDDDB 2012).
<i>Fritillaria pluriflora</i> adobe-lily	—	1B.2	Chaparral, cismontane woodland, and valley/ foothill grassland <1,500 feet.	This plant may occur in the following vegetation communities: <ul style="list-style-type: none"> perennial grasslands (purple needle grass grasslands); valley foothill riparian habitats (blue elderberry stands); valley oak woodland habitats (valley oak woodlands). 	The closest record for this species is approximately 6 miles northeast of the Project area (CNDDDB 2012).
<i>Imperata brevifolia</i> California satintail	—	2.1	Chaparral, coastal scrub, meadows and seeps (often alkali), and riparian scrub <1,650 feet.	This plant may occur in valley foothill riparian habitats (blue elderberry stands).	The closest record for this species is approximately 12 miles northeast of the Project area (CNDDDB 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
Special-Status Plant Species Unlikely to Occur in the Project Area.					
<i>Astragalus pauperculus</i> depauperate milk-vetch	—	4.3	Open, vernal mesic areas, with volcanic soils in chaparral, cismontane woodland, valley and foothill grassland between 450 and 2,050 feet.	—	Unlikely to occur. Project area is below the elevation range of this species and no volcanic soils are present. Populations presumed extant in the following USGS 7.5-minute quads in the vicinity of the Project area: Nord, Richardson Spring, and Chico (CNPS 2012).
<i>Azolla microphylla</i> Mexican mosquito fern	—	4.2	Slow moving water in wetlands, marshes, and ponds <3,900 feet.	—	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in moist areas along Big Chico Creek, just outside of Project area. Populations presumed extant in the following USGS 7.5-minute quads in the vicinity of the Project area: Llano Seco and Nelson (CNPS 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Brasenia schreberi</i> watershield	—	2.3	Slow moving water in wetlands, marshes, and ponds <7,000 feet.	—	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in moist areas along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 11 miles south of the Project area (CNDDDB 2012).
<i>California macrophylla</i> round-leaved filaree	—	1B.1	Clay soils in cismontane woodland and valley/foothill grassland <4,000 feet.	—	Unlikely to occur. No clay soils present in the Project area. The closest record for this species is approximately 16 miles southeast of the Project area (CNDDDB 2012).
<i>Campylopodiella stenocarpa</i> flagella-like atractylocarpus	—	2.2	Cismontane woodland between 300-1,700 feet.	—	Unlikely to occur. Project area is below the elevation range of this species. The closest record for this species is approximately 11 miles northeast of the Project area (CNDDDB 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Castilleja rubicundula</i> <i>ssp. rubicundula</i> pink creamsacs	—	1B.2	Open areas with serpentine soils <3,000 feet.	—	Unlikely to occur. No serpentine soils are present in the Project area The closest record for this species is approximately 8 miles northeast of the Project area (CNDDDB 2012).
<i>Chamaesyce hooveri</i> Hoover's spurge	FT	1B.2	Vernal pools <900 feet.	—	Unlikely to occur. There are no vernal pools in the Project area. The closest record for this species is approximately 9 miles north of the Project area (CNDDDB 2012).
<i>Clarkia gracilis</i> <i>ssp. Albicaulis</i> white-stemmed clarkia	—	1B.2	Chaparral, foothill woodland 800-4,000 feet.	—	Unlikely to occur. Project area is below the elevation range of this species. The closest record for this species is approximately 13 miles northeast of the Project area (CNDDDB 2012).
<i>Didymodon norrisii</i> Norris' beard moss	—	2.2	Cismontane woodland and lower montane coniferous forest between 1,500 and 6,000 feet.	—	Unlikely to occur. Project area is below the elevation range of this species. The closest record for this species is approximately 11 miles northeast of the Project area (CNDDDB 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i> woolly rose-mallow	—	1B.2	Freshwater wetlands, wet banks, and marshes <400 feet.	—	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in moist areas along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 2 miles southwest of the Project area (CNDDDB 2012).
<i>Juncus leiospermus</i> var. <i>leiospermus</i> Red Bluff dwarf rush	—	1B.1	Vernal pool margins, as well as mesic areas in chaparral, woodlands, grasslands, and wetlands between 900-1,650 feet.	—	Unlikely to occur. Project area is below the elevation range of this species. The closest record for this species is approximately 14 miles northeast of the Project area (CNDDDB 2012).
<i>Limnanthes floccosa</i> ssp. <i>californica</i> Butte County meadowfoam	FE	CE/ 1B.1	Vernal pool margins < 350 feet.	—	Unlikely to occur. There are no vernal pools in the Project area. USFWS critical habitat (Unit 7H) for this species and CNDDDB records (CNDDDB 2012) are located approximately 8 miles northeast of the Project area.

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Limnanthes floccosa ssp. floccose</i> woolly meadowfoam	—	4.2	Vernal pool margins < 2,000 feet.	—	Unlikely to occur. There are no vernal pools in the Project area. The closest record for this species is approximately 9 miles northeast of the Project area (CNDDDB 2012).
<i>Monardella venosa</i> veiny monardella	—	1B.1	Clay soils in cismontane woodland and valley/foothill grassland between 100-1,350 feet.	—	Unlikely to occur. No clay soils present in the Project area. There are historical records for this species within the following 7.5-minute quads in the vicinity of the Project area: Richardson Spring, and Chico. However, these populations are presumed extirpated, or the status is unknown (CNPS 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Navarretia nigelliformis</i> <i>ssp. nigelliformis</i> adobe navarretia	—	4.2	Vernally mesic areas, including vernal pools and clay depressions, in valley and foothill grassland between 300 and 3,300 feet	—	Unlikely to occur. Project area is below the elevation range of this species. Populations presumed extant in the following Chico USGS 7.5-minute quads in the vicinity of the Project area. There are historical records for the species within the Nord USGS 7.5-minute quad. However, these populations are presumed extirpated, or the status is unknown (CNPS 2012).
<i>Orcuttia tenuis</i> slender Orcutt grass	FT	CE/ 1B.1	Vernal pools between 600-3,700 feet.	—	Unlikely to occur. There are no vernal pools in the Project area. The closest USFWS critical habitat for this species (Unit 7c) is approximately 19 miles northeast of the Project area.
<i>Paronychia ahartii</i> Ahart's paronychia	—	1B.1	Well-drained, rocky outcrops, often vernal pool edges and volcanic upland below 1,650 feet.	—	Unlikely to occur. There are no vernal pools or volcanic uplands in the Project area. The closest record for this species is approximately 8 miles northeast of the Project area (CNDDB 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Rhynchospora californica</i> California beaked-rush	—	1B.1	Marshes, seeps, and wet meadows <700 feet.	—	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in moist areas along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 10 miles northeast of the Project area (CNDDDB 2012).
<i>Sidalcea robusta</i> Butte County checkerbloom	—	1B.2	Dry banks in chaparral/blue-oak woodland transition between 300-1,350 feet.	—	Unlikely to occur. Project area is below the elevation range of this species. The closest record for this species is approximately 9 miles northeast of the Project area (CNDDDB 2012).
<i>Stuckenia filiformis</i> slender-leaved pondweed	—	2.2	Shallow water in wetlands and drainages between 900-7,100 feet.	—	Unlikely to occur. Project area is below the elevation range of this species, and no appropriate habitat is present. The closest record for this species is approximately 10 miles east of the Project area (CNDDDB 2012).

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
<i>Tuctoria greenei</i> Greene's tuctoria (=Orcutt grass)	FE	CR/ 1B.1	Vernal pools <3,450 feet.	—	Unlikely to occur. There are no vernal pools in the Project area. The closest USFWS critical habitat for this species is approximately 13 miles southeast of the Project area. The closest record for this species is approximately 8 miles northeast of the Project area (USFWS 2012).
<i>Wolffia brasiliensis</i> Brazilian watermeal	—	2.3	Shallow water in wetlands and drainages <350 feet.	—	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in moist areas along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 1 mile north of the Project area (CNDDDB 2012).

¹ Federal and state status for plant species based on CDFG's Special Vascular Plants, Bryophytes, and Lichens List (October 2012) [<http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/SPPlants.pdf>]

² California Native Plant Society (CNPS) ratings obtained from the CNPS Inventory of Rare and Endangered Plants (8th Edition) [<http://www.rareplants.cnps.org>]

Table 1. Special-Status Plant Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State ¹ / CNPS Status ²	Plant Habitat Requirements	Potential for Occurrence within Vegetation Communities in the Project Area	Occurrence Notes
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Federal Status

FT = Federal Threatened
 FE = Federal Endangered
 FC = Federal Candidate
 FPD = Federal Proposed for Delisting
 FD = Delisted Species

State Status

SR = California Rare
 ST = California Threatened
 SE = California Endangered
 SCT = Candidate for listing as California Threatened
 SCE = Candidate for listing as California Endangered
 CFP = California Fully Protected
 CSC = California Species of Special Concern
 WL=Watch List

CNPS = California Native Plant Society Rating

1B = rare, threatened or endangered in California and elsewhere.
 2 = rare in California but more common elsewhere.
 3 = need more information
 4 = plants of limited distribution; a watch list.

_.1 = Seriously endangered in California (over 80% of records threatened/high degree and immediacy of threat)
 _.2 = Fairly endangered in California (20-80% records threatened)
 _.3 = Not very endangered in California (<20% of records threatened or no current threats known)

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
Invertebrates				
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	FE	—	Vernal pools.	Unlikely to occur. There are no vernal pools in the Project area. USFWS critical habitat (Units 7H and 7I) for this species and CNDDDB records (CNDDDB 2012) are located approximately 7 miles northeast of the Project area.
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	FT	—	Endemic to the grasslands of the Central Valley, Central Coast Mountains, and South Coast Mountains, in astatic rain-filled pools. Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	Unlikely to occur. There are no vernal pools in the Project area. USFWS critical habitat (Units 7H and 7I) for this species and CNDDDB records (CNDDDB 2012) are located approximately 7 miles northeast of the Project area.
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	FE	—	Vernal pools.	Unlikely to occur. There are no vernal pools in the Project area. USFWS critical habitat (Units 7H and 7I) for this species and CNDDDB records (CNDDDB 2012) are located approximately 7 miles northeast of the Project area.
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle (VELB)	FT	—	Occurs only in the Central Valley of California, in association with blue elderberry (<i>Sambucus nigra</i> ssp. <i>caerulea</i>). Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries. USFWS defines habitat for VELB as elderberry shrubs located below 3,000 feet in elevation.	Potential for occurrence in Project Area. A total of 274 elderberry shrubs were documented in the Project area during surveys in 2012, two of which showed signs of past VELB occupation (exit holes).

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
Amphibians				
<i>Spea hammondi</i> western spadefoot	—	CSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Unlikely to occur. There are no vernal pools in the Project area. The closest record for this species is approximately 9 miles northeast of the Project area (CNDDDB 2012).
<i>Rana draytonii</i> California red-legged frog	FT	CSC	Breeds in aquatic areas with dense, shrubby, or emergent riparian vegetation and a permanent source of deep (greater than 2 1/3 feet deep) still or slow-moving water below 4,000 feet elevation. Upland dispersal within 1 mile of aquatic breeding habitat with no impassable dispersal barriers (suburban areas, suburban developments, wide or fast flowing rivers or streams, lakes greater than 50 acres, and heavily traveled roads without underpasses or culverts).	Unlikely to occur. No appropriate habitat is present in the Project area. Potential habitat may be present along Big Chico Creek, just outside of Project area. USFWS critical habitat (Unit BUT-1) for this species is located approximately 28 miles east of the Project area, near Lake Oroville.
Reptiles				
<i>Emys marmorata</i> western pond turtle	—	CSC	Perennial wetlands and slow moving creeks and ponds, from sea level to 6,000 feet in elevation, with overhanging vegetation and suitable basking sites such as logs and rocks above the waterline.	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 2 miles southeast of the Project area in a drainage ditch near the Chico Water Pollution Control Plant (CNDDDB 2012).

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
<i>Thamnophis gigas</i> giant garter snake	FT	ST	Uses a wide variety of habitats including forests, mixed woodlands, grasslands, chaparral, and agricultural lands. The species often occurs near aquatic habitat including ponds, marshes, and streams where it freely enters and retreats to when alarmed.	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in and along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 2 miles southeast of the Project area at the Chico Water Pollution Control Plant Wetland Restoration Area (CNDDDB 2012).
Birds				
<i>Pandion haliaetus</i> osprey	—	WL	Uncommon migratory raptor that builds large perennial nests in dead trees or other prominent supports near open water. Foraging areas include regulated and unregulated rivers, reservoirs, lakes, estuaries, and coastal marine ecosystems.	Known to nest and forage in the Project area. An active nest was observed on top of telephone pole along River Road adjacent to the Project area during 2012 surveys.
<i>Buteo swainsoni</i> Swainson's hawk	BCC	ST	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Potential summer breeding resident in grassland, riparian, and forest habitats in the Project area. Several CNDDDB records for this species, the closest of which is approximately 1 mile south of the Project area (CNDDDB 2012). Observed foraging in the Project area during 2012 surveys.
<i>Elanus leucurus</i> white-tailed kite	—	CFP	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Potential year-round breeding resident in grassland and riparian habitats in the Project area. There are no records for this species in the vicinity of the Project area.
<i>Circus cyaneus</i> northern harrier	—	CSC	Grasslands, seasonal wetlands, and agricultural habitats.	Potential year-round resident in grassland habitats in the Project area. There are no records for this species in the vicinity of the Project area.

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
<i>Haliaeetus leucocephalus</i> bald eagle	BCC	CFP	Ocean shore, lake margins, & rivers for both nesting & wintering. Most nests within 1 mile of water. Nests in large, old-growth, or dominant live tree w/open branches, especially ponderosa pine. Roosts communally in winter.	Potential year-round breeding and/or wintering resident in the Project area. There are several CNDDDB records for wintering bald eagles approximately 10 miles northeast of the Project area (CNDDDB 2012).
<i>Laterallus jamaicensis coturniculus</i> California black rail	BCC	ST CFP	Inhabits freshwater marshes, wet meadows & shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that does not fluctuate during the year & dense vegetation for nesting habitat.	Unlikely to occur. No appropriate habitat is present in the Project area. Potential for occurrence in wet meadows and marshes along Big Chico Creek, just outside of Project area. The closest record for this species is approximately 12 miles northeast of the Project area (CNDDDB 2012).
<i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo	FC BCC	—	Breeds and forages in riparian areas with low woody vegetation in lowland California, especially willow-cottonwood habitat.	Potential summer breeding resident in densely vegetated riparian areas in the Project area. There are several CNDDDB records from the 1970s–1980s for this species at the mouth of Big Chico Creek in the Sacramento River (CNDDDB 2012).
<i>Athene cunicularia</i> burrowing owl	BCC	CSC	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Potential year-round breeding resident in grasslands in the Project area. The closest record for this species is approximately 7 miles northeast of the Project area (CNDDDB 2012).
<i>Lanius ludovicianus</i> loggerhead shrike	—	CSC	Breeds and forages in open grasslands, riparian, and agricultural habitats.	Potential year-round resident in grasslands and riparian habitats in the Project area. There are no records for this species in the vicinity of the Project area.

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
<i>Riparia riparia</i> bank swallow	—	ST	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, or the ocean to dig nesting hole.	This species may forage in the Sacramento River and Big Chico Creek adjacent to the Project area. However, no nesting habitat is present in the Project area. A nesting colony for this species is located approximately ½ mile south of the Project area.
<i>Icteria virens</i> yellow-breasted chat	—	CSC	Breeds and forages in dense, shrubby riparian habitats.	Potential summer breeding resident in densely vegetated riparian areas in the Project area. There are no records for this species in the vicinity of the Project area.
<i>Dendroica petechia</i> California yellow warbler	—	CSC	Breeds and forages in riparian areas with low woody vegetation in lowland California, especially willow-cottonwood habitat.	Potential summer breeding resident in densely vegetated riparian areas in the Project area. There are no records for this species in the vicinity of the Project area.
<i>Agelaius tricolor</i> tricolored blackbird	BCC	CSC	Highly colonial species, most numerous in the Central Valley & vicinity. Largely endemic to California. Requires open water, protected nesting substrate, & a foraging area with insect prey within a few kilometers of the colony.	Potential for occurrence in Project Area. Appropriate foraging and nesting habitat is present in Project area. Closest occurrence for this species is a 1986 record for a large colony approximately 8 miles south of the Project area (CNDDDB 2012).

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
Mammals				
<i>Plecotus</i> [=Corynorhinus] <i>townsendii</i> Townsend's big-eared bat	—	CSC	Found in all but alpine and subalpine habitats; most abundant in mesic habitats up to 6,000 feet in elevation. Requires caves, mines, tunnels, buildings, or other man-made structures for roosting. Extremely sensitive to disturbance and may abandon a roost if disturbed.	Potential for occurrence in Project Area. Rocky areas and structures in the Project area may provide roosting habitat for this species. The Sacramento River represents aquatic foraging habitat for this species. There are no records for this species in the vicinity of the Project area.
<i>Lasiurus blossevillii</i> western red bat	—	CSC	Occurs from British Columbia to South America. In California, occurs from Shasta County to the Mexican border west of the Sierra crest. Roosts solitarily in foliage in forests and woodlands from sea level through mixed coniferous forest. In California known to roost in cottonwood and willow.	Potential for occurrence in Project Area. May roost in trees or shrubs in Project area. The Sacramento River represents aquatic foraging habitat for this species. Closest occurrence for this species is approximately ½ mile north of the Project area along the Sacramento River (CNDDDB 2012).
<i>Antrozous pallidus</i> pallid bat	—	CSC	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Also roosts in caves, crevices, or mines. Very sensitive to disturbance of roosting sites.	Potential for occurrence in Project Area. Rocky areas and structures in the Project area may provide roosting habitat for this species. The Sacramento River represents aquatic foraging habitat for this species. The closest record for this species is approximately 6 miles northeast of the Project area (CNDDDB 2012).

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

<i>Scientific Name</i> Common Name	Federal Status ¹	State Status ₁	Habitat	Occurrence Notes
<i>Eumops perotis californicus</i> western mastiff bat	—	CSC	Occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, chaparral, desert scrub, and urban area. Typically roosts in caves, crevices, or other rock formations. Found mostly below 4,000 feet in elevation.	Potential for occurrence in Project Area. Rocky areas and structures in the Project area may provide roosting habitat for this species. The Sacramento River represents aquatic foraging habitat for this species. Closest occurrence for this species is approximately ½ mile north of the Project area along the Sacramento River (CNDDDB 2012).
<i>Vulpes vulpes necator</i> Sierra Nevada red fox	—	ST	While <i>V. vulpes</i> (red fox) has a fairly broad distribution in California, the listed <i>V.v. necator</i> subspecies is rarely seen, and occurs throughout the Sierra Nevada at elevations above 7,000 feet in forests interspersed with meadows or alpine forests. Open areas are used for hunting, forested habitats for cover and reproduction.	Unlikely to occur. Project area is outside of the geographic and elevation range of this subspecies. The closest record for this subspecies is a 1906 collection specimen found approximately 4 miles north of the Project area (CNDDDB 2012).
<i>Bassariscus astutus</i> ringtail	—	CFP	Found in most forest and shrub habitats in close association with rock and/or riparian areas, usually not more than .6 miles from water. Dens in hollow trees, snags, or other cavities.	Potential for occurrence within riparian habitats in the Project area. There are no records for this species in the vicinity of the Project area.
<i>Taxidea taxus</i> American badger	—	CSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils & open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Potential for occurrence in Project area. The closest record for this species is approximately 14 miles south of the Project area along Butte Creek (CNDDDB 2012).

Table 2. Special-Status Wildlife Species Potentially Occurring in the M & T Chico Ranch / Llano Seco Rancho Fish Screen Facility Short-Term Protection Project Area.

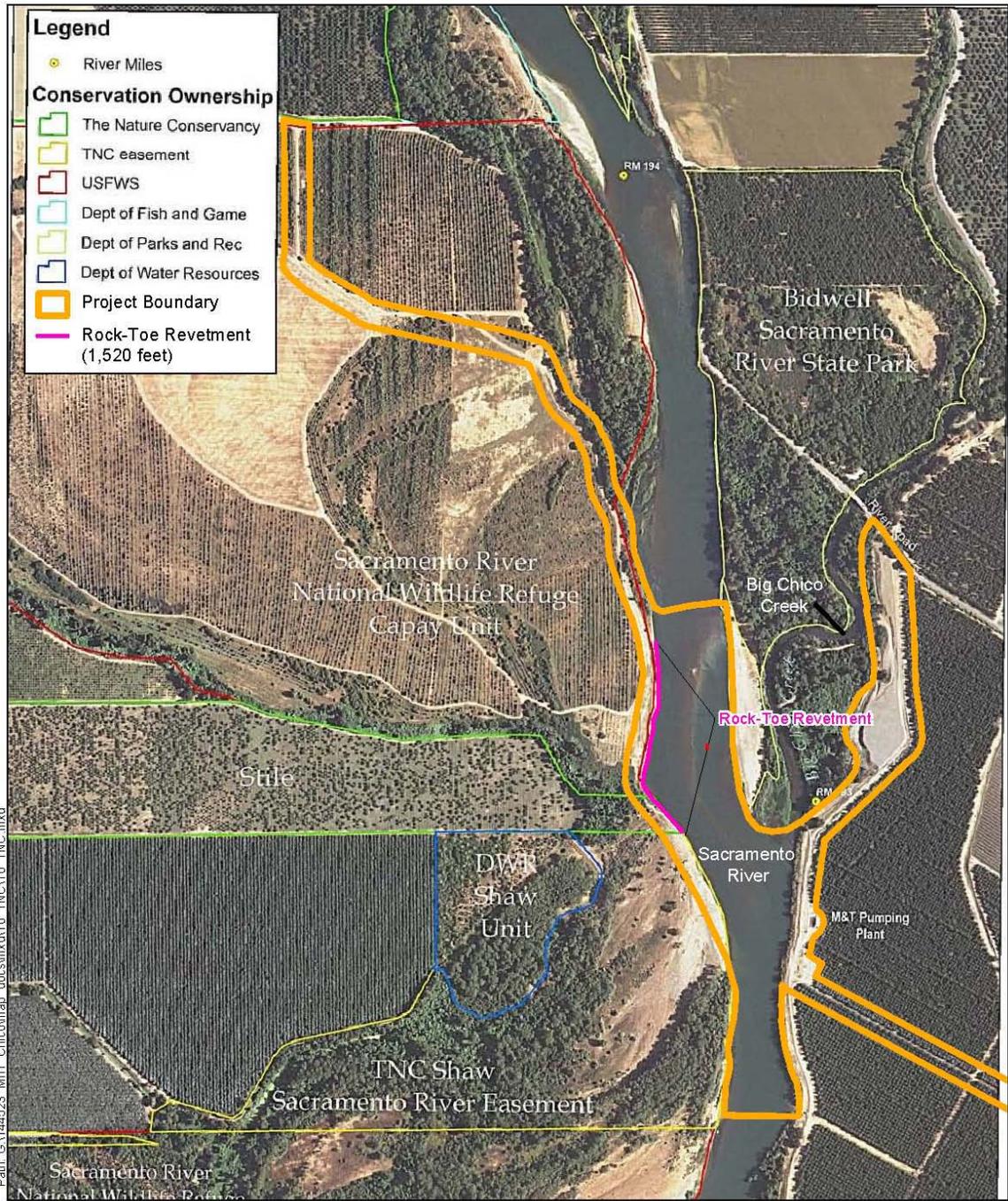
¹ Federal and state status for wildlife species obtained from CDFG's Special Animals List (January 2011)
[\[http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/spanimals.pdf\]](http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/spanimals.pdf)

Federal Status

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FC = Federal Candidate
FPD = Federal Proposed for Delisting
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BCC = USFWS Birds of Conservation Concern

State Status

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SCE = Candidate for listing as California Endangered
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CSC = California Species of Special Concern
WL=Watch List



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Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

 Very Stony Spot

 Wet Spot

 Other

Special Line Features

-  Gully
-  Short Steep Slope
-  Other

Political Features

 Cities

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads

MAP INFORMATION

Map Scale: 1:35,400 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at scales ranging from 1:20,000 to 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 10N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Butte Area, California, Parts of Butte and Plumas Counties
 Survey Area Data: Version 9, Jun 2, 2009

Soil Survey Area: Glenn County, California
 Survey Area Data: Version 7, Dec 19, 2011

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Date(s) aerial images were photographed: 6/29/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (M and T Chico Ranch)

Butte Area, California, Parts of Butte and Plumas Counties (CA612)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
104	BOSQUEJO CLAY, 0 TO 1 PERCENT SLOPES	535.9	11.5%
105	BUSACCA CLAY LOAM, 0 TO 1 PERCENT SLOPES	46.1	1.0%
152	GIANELLA FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED	207.8	4.5%
154	GIANELLA SILT LOAM, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED	0.0	0.0%
158	GIANELLA FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	425.1	9.1%
160	GIANELLA LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	45.0	1.0%
175	FARWELL CLAY LOAM, 0 TO 1 PERCENT SLOPES	222.5	4.8%
200	PARROTT SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	193.2	4.1%
201	PARROTT SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED	26.3	0.6%
203	KUSALSLOUGH SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES, OCCASIONALLY FLOODED	124.0	2.7%
280	COLUMBIA TAXADJUNCT VERY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES, FREQUENTLY FLOODED	16.7	0.4%
415	IGNORD FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	354.7	7.6%
418	ALMENDRA LOAM, 0 TO 1 PERCENT SLOPES	46.3	1.0%
420	CONEJO CLAY LOAM, 0 TO 1 PERCENT SLOPES	453.7	9.7%
990	RIVERWASH, 0 TO 2 PERCENT SLOPES FREQUENTLY FLOODED	180.4	3.9%
991	XEROFLUENTS, 0 TO 4 PERCENT SLOPES FREQUENTLY FLOODED	37.4	0.8%
999	WATER	118.4	2.5%
Subtotals for Soil Survey Area		3,033.6	65.0%
Totals for Area of Interest		4,664.3	100.0%

Glenn County, California (CA021)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Columbia fine sandy loam, 0 to 2 percent slopes	139.6	3.0%
CgA	Columbia loamy fine sand, coarse variant, 0 to 2 percent slopes	25.4	0.5%
CgB	Columbia loamy fine sand, coarse variant, 2 to 8 percent slopes	16.8	0.4%

Custom Soil Resource Report

Glenn County, California (CA021)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Columbia silt loam, 0 to 2 percent slopes	789.5	16.9%
ChB	Columbia silt loam, 2 to 8 percent slopes	220.1	4.7%
Cm	Columbia silt loam, moderately deep over gravel, 0 to 1 percent slopes	80.4	1.7%
CpB	Columbia silt loam, water table, 1 to 8 percent slopes	8.2	0.2%
CrB	Columbia soils, channeled, 0 to 10 percent slopes	45.0	1.0%
Rh	Riverwash	200.9	4.3%
W	Water	104.7	2.2%
Subtotals for Soil Survey Area		1,630.7	35.0%
Totals for Area of Interest		4,664.3	100.0%