

Appendix C Supporting Biological Resources Information



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CNDDB Quad Species List 43 records.

CNDDR	Quad Specie	es List 4	3 records.								
Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status		Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Ambystoma californiense	California tiger salamander	AAAAA01180	Threatened	Threatened	WL	-	3712183	STOCKTON WEST	Mapped	Animals - Amphibians - Ambystomatidae - Ambystoma californiense
Animals - Amphibians	Spea hammondii	western spadefoot	AAABF02020	None	None	SSC	-	3712183	STOCKTON WEST	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3712183	STOCKTON WEST	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3712183	STOCKTON WEST	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Pica nuttalli	yellow- billed magpie	ABPAV09020	None	None	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Corvidae - Pica nuttalli
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3712183	STOCKTON WEST	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Icteria virens	yellow- breasted chat	ABPBX24010	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Icteriidae - Icteria virens
Animals - Birds	Setophaga petechia	yellow warbler	ABPBX03010	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Parulidae - Setophaga petechia
Animals - Birds	Asio flammeus	short-eared owl	ABNSB13040	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Birds - Strigidae - Asio flammeus
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3712183	STOCKTON WEST	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cunicularia
Animals - Birds	Vireo bellii pusillus	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3712183	STOCKTON WEST	Mapped	Animals - Birds - Vireonidae - Vireo bellii pusillus
Animals - Fish	Acipenser transmontanus	white sturgeon	AFCAA01050	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Acipenseridae - Acipenser transmontanus
Animals - Fish	Lavinia exilicauda exilicauda	Sacramento hitch	AFCJB19012	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Cyprinidae - Lavinia exilicauda exilicauda
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus

20/2020					IIVIAFSF	IIIILFIE	VICW				
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3712183	STOCKTON WEST	Mapped and Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	-	-	3712183	STOCKTON WEST	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Oncorhynchus mykiss irideus pop. 11	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3712183	STOCKTON WEST	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 11
Animals - Fish	Oncorhynchus tshawytscha pop. 13	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 13
Animals - Fish	Oncorhynchus tshawytscha pop. 30	chinook salmon - upper Klamath and Trinity Rivers ESU	AFCHA02056	None	Candidate Endangered	ssc	_	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 30
Animals - Fish	Oncorhynchus tshawytscha pop. 6	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop.
Animals - Mollusks	Anodonta californiensis	California floater	IMBIV04020	None	None	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Mollusks - Unionidae - Anodonta californiensis
Animals - Mollusks	Gonidea angulata	western ridged mussel	IMBIV19010	None	None	-	-	3712183	STOCKTON WEST	Unprocessed	Animals - Mollusks - Unionidae - Gonidea angulata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis gigas	giant gartersnake	ARADB36150	Threatened	Threatened	-	-	3712183	STOCKTON WEST	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3712183	STOCKTON WEST	Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Blepharizonia plumosa	big tarplant	PDAST1C011	None	None	-	1B.1	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Asteraceae - Blepharizonia plumosa
Plants - Vascular	Symphyotrichum lentum	Suisun Marsh aster	PDASTE8470	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Asteraceae - Symphyotrichum lentum

28/2020					IMAPS P	IIII FIE	/iew				
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Cabombaceae - Brasenia schreberi
Plants - Vascular	Atriplex cordulata var. cordulata	heartscale	PDCHE040B0	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Chenopodiaceae - Atriplex cordulata var. cordulata
Plants - Vascular	Extriplex joaquinana	San Joaquin spearscale	PDCHE041F3	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Chenopodiaceae - Extriplex joaquinana
Plants - Vascular	Astragalus tener var. tener	alkali milk- vetch	PDFAB0F8R1	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Fabaceae - Astragalus tener var. tener
Plants - Vascular	Lathyrus jepsonii var. jepsonii	Delta tule pea	PDFAB250D2	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Fabaceae - Lathyrus jepsonii var. jepsonii
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Hibiscus lasiocarpos var. occidentalis	woolly rose- mallow	PDMAL0H0R3	None	None	-	1B.2	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpos var. occidentalis
Plants - Vascular	Chloropyron palmatum	palmate- bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	-	1B.1	3712183	STOCKTON WEST	Mapped	Plants - Vascular - Orobanchaceae - Chloropyron palmatum



*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

Plant List

11 matches found. Click on scientific name for details

Search Criteria

Found in Quad 3712183

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Listing Status	Federal Listing Status
Astragalus tener var. tener	alkali milk-vetch	Fabaceae	annual herb	Mar-Jun	1B.2		
<u>Atriplex cordulata var.</u> <u>cordulata</u>	heartscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2		
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	1B.1		
Brasenia schreberi	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	Jun-Sep	2B.3		
Chloropyron palmatum	palmate-bracted bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct	1B.1	CE	FE
Extriplex joaquinana	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2		
Hibiscus lasiocarpos var. occidentalis	woolly rose- mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	1B.2		
<u>Lathyrus jepsonii var.</u> <u>jepsonii</u>	Delta tule pea	Fabaceae	perennial herb	May- Jul(Aug- Sep)	1B.2		
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May- Oct(Nov)	1B.2		
<u>Symphyotrichum</u> <u>lentum</u>	Suisun Marsh aster	Asteraceae	perennial rhizomatous herb	(Apr)May- Nov	1B.2		
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2		

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<u>CalPhotos</u>

Search the Inventory	Information	Contributors
Simple Search	About the Inventory	The Calflora Database
Advanced Search	About the Rare Plant Program	The California Lichen Society
<u>Glossary</u>	CNPS Home Page	California Natural Diversity Database
	About CNPS	The Jepson Flora Project
	Join CNPS	The Consortium of California Herbaria

Questions and Comments

rareplants@cnps.org

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IPaC

U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

San Joaquin County, California



Local office

Sacramento Fish And Wildlife Office

(916) 414-6600

(916) 414-6713

Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

10/26/2020

Riparian Brush Rabbit Sylvilagus bachmani riparius

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6189

Endangered

Reptiles

NAME STATUS

Giant Garter Snake Thamnophis gigas

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/4482

Threatened

Amphibians

NAME STATUS

California Red-legged Frog Rana draytonii

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/2891

Threatened

California Tiger Salamander Ambystoma californiense

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/2076

Threatened

Fishes

NAME STATUS

Delta Smelt Hypomesus transpacificus

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/321

Threatened

Insects

NAME STATUS

Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/7850

Threatened

Crustaceans

NAME STATUS

Vernal Pool Fairy Shrimp Branchinecta lynchi

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/498

Vernal Pool Tadpole Shrimp Lepidurus packardi

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/2246

Endangered

Threatened

Flowering Plants

NAME STATUS

Palmate-bracted Bird's Beak Cordylanthus palmatus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1616 Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act^{1} and the Bald and Golden Eagle Protection Act^{2} .

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds
 http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
 http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS INDICATED
FOR A BIRD ON YOUR LIST, THE
BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN
THE TIMEFRAME SPECIFIED,
WHICH IS A VERY LIBERAL
ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS
ACROSS ITS ENTIRE RANGE.
"BREEDS ELSEWHERE" INDICATES
THAT THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT AREA.)

Burrowing Owl Athene cunicularia

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9737

Breeds Mar 15 to Aug 31

Common Yellowthroat Geothlypis trichas sinuosa

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084

Breeds May 20 to Jul 31

Lawrence's Goldfinch Carduelis lawrencei

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9464

Breeds Mar 20 to Sep 20

Long-billed Curlew Numenius americanus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/5511

Breeds elsewhere

Nuttall's Woodpecker Picoides nuttallii

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/9410

Breeds Apr 1 to Jul 20

Oak Titmouse Baeolophus inornatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9656

Breeds Mar 15 to Jul 15

Breeds Feb 20 to Sep 5

Song Sparrow Melospiza melodia

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Spotted Towhee Pipilo maculatus clementae Breeds Apr 15 to Jul 20

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/4243

Wrentit Chamaea fasciata

This is a Bird of Conservation Concern (BCC) throughout its range in

the continental USA and Alaska.

Breeds Mar 15 to Aug 10

Yellow-billed Magpie Pica nuttalli

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9726

Breeds Apr 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

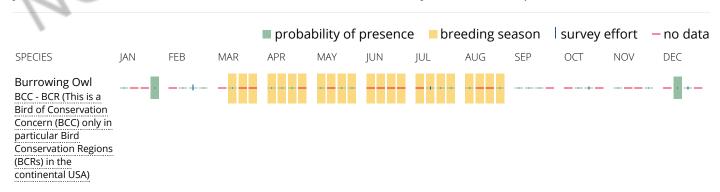
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

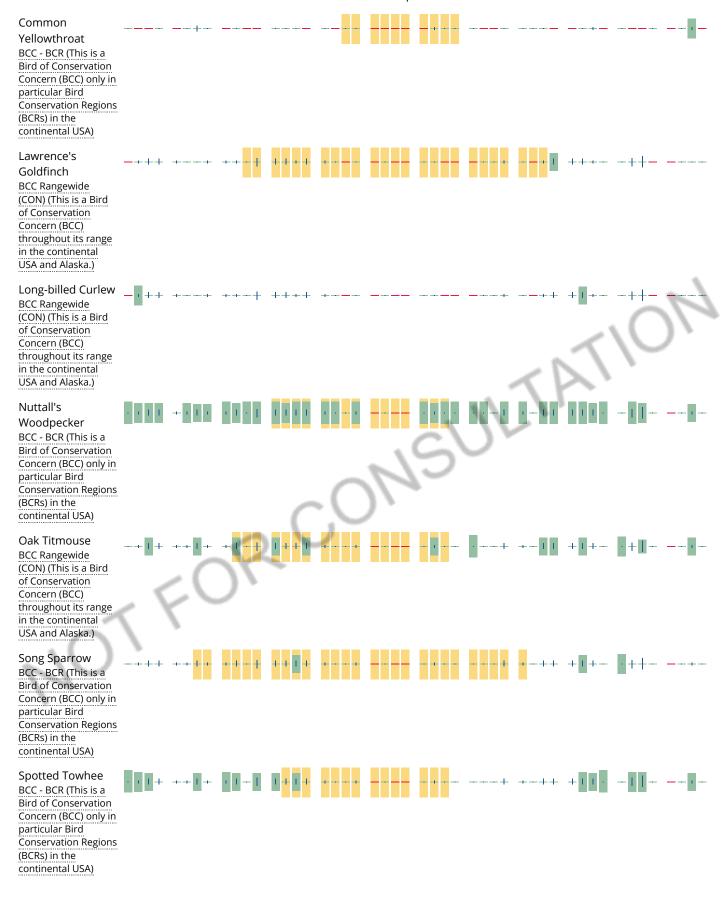
No Data (-)

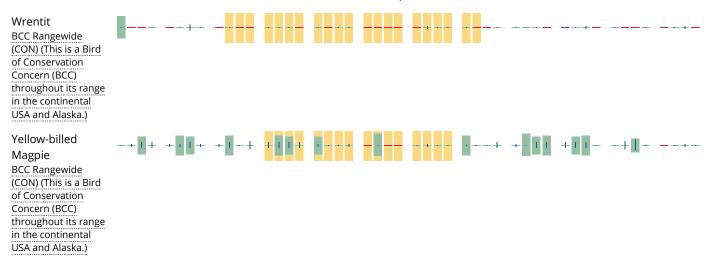
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.







Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen</u> science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to

confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1A

RIVERINE

R5UBFx

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



Quad Name Stockton West

Quad Number **37121-H3**

ESA Anadromous Fish

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) -

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat - X

Eulachon Critical Habitat -

sDPS Green Sturgeon Critical Habitat - X

ESA Marine Invertebrates

Range Black Abalone (E) -

Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat



Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) Olive Ridley Sea Turtle (T/E) Leatherback Sea Turtle (E) North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) Fin Whale (E) Humpback Whale (E) Southern Resident Killer Whale (E) North Pacific Right Whale (E) Sei Whale (E) Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH Chinook Salmon EFH
Groundfish EFH
Coastal Pelagics EFH
Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -



						Potential for	_
Scientific Name	Common Name	Federal	State	CRPR	Habitat Characteristics	Occurrence	Rationale
Astragalus tener var. tener	alkali milk-vetch	None	None	1B.2	Alkaline soils in playas, adobe clay grassland, and vernal pools. Elevation: 0–195 feet. Blooming period: March–June	N	Suitable habitat not present in the BSA.
Atriplex cordulata var. cordulata	heartscale	None	None	1B.2	Saline or alkaline soils in chenopod scrub, meadows, seeps, and sandy grassland. Elevation: 0–1,837 feet. Blooming period: April–October	N	Suitable habitat not present in the BSA.
Blepharizonia plumosa	big tarplant	None	None	1B.1	Usually clay soils in grassland. Elevation: 95–1,655 feet. Blooming period: July–October	N	Suitable habitat not present in the BSA.
Brasenia schreberi	watershield	None	None	2B.3	Freshwater marshes and swamps. Elevation: 95–7,220 feet. Blooming period: June–September	N	Suitable habitat not present in the BSA.
Chloropyron palmatum	palmate-bracted bird's-beak	FE	SE	1B.1	Alkaline soils in chenopod scrub and grassland. Elevation: 15–510 feet. Blooming period: May–October	N	Suitable habitat not present in the BSA.
Extriplex joaquinana	San Joaquin spearscale	None	None	1B.2	Alkaline soils in chenopod scrub, meadows, seeps, playas, and grassland. Elevation: 0–2,740 feet. Blooming period: April–October (synonym of Atriplex joaquiniana)	N	Suitable habitat not present in the BSA.
Hibiscus lasiocarpos var. occidentalis	woolly rose-mallow	None	None	1B.2	Often in riprap on sides of levees in freshwater marshes and swamps. Elevation: 0–395 feet. Blooming period: June–September	N	Suitable habitat not present in the BSA.
Lathyrus jepsonii var. jepsonii	Delta tule pea	None	None	1B.2	Freshwater and brackish marshes and swamps. Elevation: 0–16 feet. Blooming period: May–September	N	Suitable habitat not present in the BSA.
Sagittaria sanfordii	Sanford's arrowhead	None	None	1B.2	Fresh water marshes and swamps that are typically shallow. Elevation: 0–2,132 feet. Blooming period: May–October	N	Suitable habitat not present in the BSA.
Symphyotrichum lentum	Suisun Marsh aster	None	None	1B.2	Brackish and freshwater marshes and swamps. Elevation: 0–9 feet. Blooming period: (April)May–November (synonym of Aster chilensis var. lentus and A. lentus)	N	Suitable habitat not present in the BSA.
Trifolium hydrophilum	saline clover	None	None	1B.2	Marshes, swamps, vernal pools, and grassland with mesic or alkaline soils. Elevation: 0–985 feet. Blooming period: April–June	N	Suitable habitat not present in the BSA.
Source for all plant species habitat characteristics with a CRPR value is: California Native Plant Society (CNPS). 2020 (INSERT DATE). Inventory of Rare and Endangered Plants (online edition, v8-03). Sacramento, CA: CNPS. http://www.rareplants.cnps.org/.							
Jepson Flora Project. 2019 (December 20, Revision 7). Jepson eFlora. Berkeley, CA: The Jepson Herbarium. http://ucjeps.berkeley.edu/eflora/.							
Plant Nomenclature and Listing Status: California Department of Fish and Wildlife (CDFW). 2020 (September). Special Vascular Plants, Bryophytes, and Lichens List. Sacramento, CA: CDFW, Natural Heritage Division.							
USFWS: U.S. Fish and Wildlife Service; CDFW: California Department of Fish and Wildlife; CRPR: California Rare Plant Rank							
Species Status:							
Federal (USFWS and USDA)	State (CDFW)						
	SE Endangered ST Threatened						
	SR Rare						
·	SC State Candidate Species						
WL Watch List	SC State Carididate Species						
CRPR 1A Plants presumed extirpated in California and							
A Plants presumed extirpated in California and either rare or extinct elsewhere							
1B Plants Rare, Threatened, or Endangered in California and elsewhere							
2A Plants Presumed extirpated in California, but more common elsewhere							
2B Plants Rare, Threatened, or Endangered in California, but more common elsewhere							
3 Plants about which we need more information - review list							
4 Plants of limited distribution - watch list							
CRPR Threat Code Extension							
None Plants lacking any threat information							



.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)				
.2 Moderately threatened in California (20–80% of occurrences threatened; moderate degree and immediacy of threat)				
.3 Not very threatened in California (<20% of occurrences threatened; low degree and immediacy of threat or no current threats known)				
Species that were observed [on site] are shown in boldface type.				
[INSERT any table footnotes; e.g., Taxon not currently recognized by the Jepson Flora Project (2018), but still tracked by the CDFW. Use * for a single footnote and superscript letters where there are multiple footnotes.]				



Scientific Name	Common Name	Federal	State	Habitat Characteristics	Potential for Occurrence	Rationale
Invertebrates						
Branchinecta lynchi	vernal pool fairy shrimp	FT	None	Endemic to the grasslands of the Central Valley and the Central and South Coast Range mountains of California, and the Agate Desert of southern Oregon. Found only in cool water vernal pools and vernal pool-like habitats; does not occur in riverine, marine, or other permanent bodies of water (USFWS 2007).	N	Vernal pool habitat not present within the BSA.
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	FT	None	Dependent on host plant, elderberry (Sambucus spp.), which most commonly grows in riparian woodlands, but also in some upland habitats such as oak savannas and annual grasslands. Current presumed range in Central Valley extends from Shasta County south to Fresno County, including the valley floor and lower foothills up to about 500 feet in elevation (USFWS 2017).	N	No elderberry shrubs were documented during visual surveys conducted on November 24, 2020.
Lepidurus packardi	vernal pool tadpole shrimp	FE	None	Found only in ephemeral freshwater habitats, including alkaline pools, clay flats, vernal lakes, vernal pools, vernal swales, and other seasonal wetlands. Patchily distributed across the Central Valley from Shasta County south to Tulare County with isolated occurrences in the East Bay Area (USFWS 2007).	N	Vernal pool habitat not present within the BSA.
Fish						
Acipenser medirostris	green sturgeon (southern DPS)	FT	ssc	Spawning occurs primarily in the Sacramento River, but those that spawn in the Feather and Yuba Rivers are also part of the southern DPS. Oceanic waters, bays, and estuaries during non-spawning season. Enters San Francisco Bay late winter through early spring, and spawn occurs from April through early July. Spawn in cool sections of river mainstems in deep pools containing small to medium-sized gravel, cobble, or boulder substrate (NMFS 2015).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.
Acipenser transmontanus	white sturgeon	None	SSC	Salt water from Ensenada to Alaska. Spawn in large river systems along the west coast. Currently, self-sustaining populations only occur in the Sacramento, Columbia, and Fraser Rivers. Spawn in large, deep pools (Moyle 2002).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.
Entosphenus tridentatus	Pacific lamprey	None	ssc	Cold, clear water for spawning and incubation. Peak spawning appears to be closely tied to water temperatures that are suitable for early development, but can occur at temperatures above 72°F. Adults use gravel areas to build nests, while ammocoetes need soft sediments in which to burrow during rearing. Nests are generally associated with cover, including gravel and cobble substrates, vegetation and woody debris. Ammocoetes burrow into larger substrates as they grow. Ammocoetes also need detritus that produces algae for food and habitats with slow or moderately slow water velocities, such as low gradient riffles, pool tailouts and lateral scour pools (CDFW 2015).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.
Hypomesus transpacificus	delta smelt	FT	SE	Endemic to open waters of San Francisco Bay and Sacramento-San Joaquin River Delta. Distribution includes San Pablo Bay up through Suisun Bay, upstream through the delta to the Sacramento River below Isleton, and the San Joaquin River below Mossdale. Spawning has not been observed in the wild, but is thought to take place in sloughs and shallow edge-water channels in the upper delta and in Montezuma Slough near Suisun Bay. (USFWS 2010).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.
Lampetra ayresii	river lamprey	None	SSC	Occurs in the Sacramento-San Joaquin River systems, although it likely occurs elsewhere. Small lampreys that spend most of their lives in freshwater, with about 3 to 4 months in salt water. Adults migrate into freshwater for spawning in autumn (Moyle 2002).	N	The section of Mormon Slough that occurs within the proposed Project area does not hold water year round; therefore does not provide suitable habitat for special-status fish.
Lavinia exilicauda exilicauda	Sacramento hitch	None	SSC	Has a scattered distribution within the Central Valley, from the Tulare Lake Basin to Shasta Reservoir (Moyle 2002).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.
Oncorhynchus mykiss irideus (pop. 11)	steelhead (central valley DPS)	FT	None	Includes naturally spawned anadromous steelhead originating below natural and manmade impassable barriers from the Sacramento and San Joaquin Rivers and their tributaries; excludes such fish originating from San Francisco and San Pablo Bays and their tributaries. This DPS does include steelhead from two artificial propagation programs: Coleman National Fish Hatchery Program and Feather River Fish Hatchery Program. Spawning habitat includes gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Non-spawning habitat includes estuarine and marine waters (NOAA 2019).	N	Hydrology of Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish bearing water bodies.



send to adult in NAVES 2010. Contract summon (Purerus Valley fair (Justicell Final							
Calibrate ligar salamandar FT ST Bereinstein (Camera Vating fail / Lab Calibratian (Camera Vating fail / Lab Calibrate Calibration of San Calibration (Camera Vating fail / Lab Calibration of San Calibr	Oncorhynchus tshawytscha (pop. 6)	chinook salmon (Central Valley spring-run ESU)	FT	ST	American, Yuba and Feather Rivers, and Mill, Deer, and Butte Creeks. The numbers of adults are dependent on pool depth and volume, amount of cover, and proximity to gravel. Water temperatures greater than 80°F are	N	completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish
Pack and an image between the contraction of the Clarach and Transy Reverse (EU) Reve	Oncorhynchus tshawytscha (pop. 13)		None	SSC	the reach between Red Bluff Diversion Dam and Redding's Keswick Dam. The specific habitat requirements of late fall-run chinook salmon have not been determined but they are presumably similar to other Central Valley chinook salmon runs. It is believed that optimal conditions fall within the range of physical and chemical	N	that occurs within the proposed Project area does not hold water year round; therefore does not provide suitable habitat for
Sacramento spitital None SSC Sacramento spitital None SSC Sacramento spitital None SSC SSC Sacramento spitital None SSC SSC Sacramento spitital None SSC SSC SSC SSC SSC SSC SSC S	Oncorhynchus tshawytscha (pop. 30)		None	SCE	below Iron Gate and Lewiston Dams. Enter the Klamath Estuary for only a short period prior to spawning. Unfavorable temperatures may exist in the Klamath Estuary and lower river during summer and chronic exposure	N	completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish
completely dependent on intermitiant stormwards propulations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **No populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012). **Substitute in the lab of the lab of the lab of the lab of their lab observations and the lab of the lab of the lab of their lab observations and lab observations and their lab observations and la	Pogonichthys macrolepidotus	Sacramento splittail	None	SSC	Suisun Bay, Suisun Marsh, Napa River, Petaluma River, and other parts of the San Francisco Estuary, while spawning on upstream floodplains and channel edges. The species is adapted for estuarine and are tolerant of a wide range of salinities and temperatures. Splittail require a rising hydrograph for upstream migration and flooded vegetation for spawning and rearing areas. Flooded areas need to be at least 1 m deep with deeper, more open,	N	completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish
Breeds in fish-free ephemeral ponds which form in winter and dry in summer. Some also breed in slow streams and semi-permanent waters, including cattle ponds. Spends most of the year underground in small mammal by burrows, especially those of California triger salamander FT ST ST Breeds in fish-free ephemeral ponds which form in winter and dry in summer. Some also breed in slow streams and semi-permanent waters, including cattle ponds. Spends most of the year underground in small mammal by burrows, especially those of California ground squring (Clospermophilis Breechely). Typical habitat associations include grassland, oak savanna, edges of mixed woodland, and lower elevation conferous forest (Nalis 2020). Ponds and streams in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover in towlands or forobilis. Breeding habitat includes permanent or ephemeral water sources; takes, ponds, reservoirs, sow streams, marshes, bogs, and sarramsles should an autores or other moist refuges for estivation when the wetlands are dry. Occurs from seal level to 5,000 feet in elevation. Occurs along the Coast Ranges from Mendericon County south to northern Baja California, and infland across the northermost reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as northern Tulare County (Nalis 2020). Generally found in grasslands, cask woodlands, coastal sage scrub, and chaparral in washes, floodplains, alluvial tans, playes, and alkalifiats. Natural and antificial water bodies are used for breeding. Specifically, vernal pools such by this species have an average ponding duration of 81 days, and successful recruitment course in prods that is no average 21 days longer than larval development time. Pool temperature requirements are from 48 to 90°F. Pools with invasive species, such as a ragfield. Predications such as a registry of the predictions such as a ragfield. Predications such as a ragfield. Predications such as a ragfield in the re	Spirinchus thaleichthys	longfin smelt	FCT	ST		N	completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and there is no consistent connection to other fish
Breeds in fish-free ephemeral ponds which form in winter and dry in summer. Some also breed in slow streams and semi-permanent waters, including cattlet ponds. Spends most of the year underground in small mammal buturows, especially those of California ground againet (Disappendinia beachept). Typical habitat associations of the year underground in small mammal buturows, especially those of California ground againet (Disappendinia beachept). Typical habitat associations of the year underground in small mammal buturows, especially those of California ground againet (Disappendinia beachept). Typical habitat associations of the year. The closest known occurrence is documented roughly a miles northwest of the SAS near Victory Park, but is outdated (1923) and presumed extirpated. Ponds and streams in humid forests, woodlands, grasslands, coastal scrub, and streamsides with plant cover in lowlands or forbifflis. Breeding habitat includes permanent or ephemeral water sources (akes, ponds, reservoirs, slow streams, marshes, bogos, and swamps, Ephemeral waterial habitats require animal burrows or other moist in lowlands are dry. Occurs from sea level to 5,000 feet in elevation. Occurs along the Coast Ranges from Mendocino Courty south to northem Baja California, and inland across the northermores reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as northern Tulare County (Nafis 2020). Generally found in grasslands, oak woodlands, coastal sage scrub, and chaparral in washes, floodplains, alluvial fains, plays, and alkali flats. Natural and artificial water bodies are used for breeding. Specifically, vernal pools used by this species have an average ponding duration of 81 days, and successful freeding the recultient cours in ponds the species and a variety of the species and a variety of the properture requirements are from 48 to 900F. Pools with invasive species, such as a cryptish (Pada/disatrics spp.), or bulffrogs (Lithchaires cateabelianus) often, but not	Amphibians			1			1
lowlands or foothills. Breeding habitat includes permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for estivation when the wetlands are dry. Occurs from sea level to 5,000 feet in elevation. Occurs along the Coast Ranges from Mendocino County south to northern Baja California, and inland across the northernmost reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as northern Tulare County (Nafis 2020). Dea hammondii western spadefoot None SSC Generally found in grasslands, oak woodlands, coastal sage scrub, and chaparral in washes, floodplains, alluvial fans, playas, and alkali flats. Natural and artificial water bodies are used for breeding. Specifically, vernal pools used by this species have an average ponding duration of 81 days, and successful recruitment occurs in ponds that last on average 21 days longer than larval development time. Pool temperature requirements are from 48 to 900F. Pools with invasive species, such as crayfish (*Pacifasticus* spp.*), or bullfrogs (*Lithobates* catesbeianus*) often, but not always, exclude this species. (Thomson et al. 2016).	Ambystoma californiense	California tiger sälamander	FT	ST	and semi-permanent waters, including cattle ponds. Spends most of the year underground in small mammal burrows, especially those of California ground squirrel (Otospermophilus beecheyi). Typical habitat associations	N	the BSA. The section of Mormon Slough that bisects the BSA does not provide adequate aquatic habitat and is dry the majority of the year. The closest known occurrence is documented roughly 2 miles northwest of the BSA near Victory Park, but is outdated (1923) and presumed
fans, playas, and alkali flats. Natural and artificial water bodies are used for breeding. Specifically, vernal pools used by this species have an average ponding duration of 81 days, and successful recruitment occurs in ponds that last on average 21 days longer than larval development time. Pool temperature equirements are from 48 to 90oF. Pools with invasive species, such as crayfish (<i>Pacifasticus</i> spp.), or bullfrogs (<i>Lithobates catesbeianus</i>) often, but not always, exclude this species. (Thomson et al. 2016).	Rana draytonii	California red-legged frog	FT	SSC	lowlands or foothills. Breeding habitat includes permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for estivation when the wetlands are dry. Occurs from sea level to 5,000 feet in elevation. Occurs along the Coast Ranges from Mendocino County south to northern Baja California, and inland across the northernmost reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as	N	
eptiles .	Spea hammondii	western spadefoot	None	SSC	fans, playas, and alkali flats. Natural and artificial water bodies are used for breeding. Specifically, vernal pools used by this species have an average ponding duration of 81 days, and successful recruitment occurs in ponds that last on average 21 days longer than larval development time. Pool temperature requirements are from 48 to 900F. Pools with invasive species, such as crayfish (Pacifasticus spp.), or bullfrogs (Lithobates catesbeianus)	N	
	Reptiles						



Emys marmorata	western pond turtle	None	ssc	Ranges throughout California except for Inyo and Mono Counties. Generally occurs in various water bodies including permanent and ephemeral systems either natural or artificial. Upland habitat that is at least moderately undisturbed is required for nesting and overwintering, in soils that are loose enough for excavation (Thomson et al. 2016).	N	Hydrology of the Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and is dry a majority of the year. Additioanlly, suitable upland habitat is not present in the BSA. The upland habitat along the edges of the Slough is highly disturbed, urbanized, and inhabited by a large homeless population.
Phrynosoma blainvillii	coast horned lizard	None	ssc	Known to occur in open areas of sandy soil and low vegetation in valleys, foothills and semiarid mountains. Furthermore, grasslands, coniferous forests, woodlands, and chaparral, with patches of loose soil in open habitat. Frequently found in sandy washes with scattered shrubs and along dirt roads, and frequently found near ant hills. Ranges up onto the Kern Plateau east of the crest of the Sierra Nevada.	N	All known occurrences are documented in the foothills surrounding the Central Valley (with the exception of one near Merced). The highly urban/industrial conditions of the BSA and surrounding areas make movement of individuals into the City center very unlikely. Additionally, soils appear to be mainly laom/clay, which is not ideal.
Thamnophis gigas	giant garter snake	FT	ST	Marshes, sloughs, ponds, small lakes, low gradient streams, irrigation and drainage canals, rice fields and their associated uplands. Upland habitat should have burrows or other soil crevices suitable for snakes to reside during their dormancy period (November- mid March). Formerly ranged in the Central Valley from Butte County to Buena Vista Lake in Kern County, but now thought to be absent south of Fresno and in Stanislaus County (USFWS 2012).	N	Suitable habitat not present within the BSA. Hydrology of the Slough is completely dependent on intermittent stormwater runoff. Water is only present for short periods of time and is dry a majority of the year. The closest known occurrences are documented near the Calaveras River to the east and the Port of Stockton to the west. Additionally, the upland habitat along the edges of the Slough is highly disturbed, urbanized, and inhabited by a large homeless population and does not provide suitable habitat.
Birds Agelaius tricolor	tricolored blackbird	None	ST, SSC	Mostly a year-round resident in California. Common locally throughout Central Valley and in coastal districts from Sonoma County south. Breeds locally in northeastern California. In winter, becomes more widespread along the central coast and San Francisco Bay area, and can be found in portions of the Colorado Desert (Hamilton 2004). Preferred nesting habitat includes cattails (<i>Typha</i> spp.), bulrushes (<i>Schoenoplectus</i> spp.), Himalayan blackberry (<i>Rubus armeniacus</i>), and agricultural silage. Dense vegetation is preferred but heavily lodged cattails not burned in recent years may preclude settlement. Need access to open water. Strips of emergent vegetation along canals are avoided as nest sites unless they are about 30 feet or more wide but in some ponds, especially where associated with Himalayan blackberries and deep water, settlement may be in narrower fetches of cattails. (CDFW 2020).	N	Suitable habitat not present within the BSA
Asio flammeus	short-eared owl	None	ssc	Found in open, treeless areas with elevated sites for perches, and dense vegetation for roosting and nesting. Associated with perennial grasslands, prairies, dunes, meadows, irrigated lands, and saline and fresh emergent wetlands. Breeds in coastal areas in Del Norte and Humboldt Counties, San Francisco Bay Delta, northeastern Modoc plateau, east Sierras from Lake Tahoe to Inyo County and San Joaquin Valley. Winters in the Central Valley, western Sierra Nevada foothills and along the coastline (CDFW 2020).	N	Suitable habitat not present within the BSA.
Athene cunicularia	burrowing owl	None	ssc	Resident in much of the state in open, dry grasslands and various desert habitats. Requires open areas with mammal burrows; especially those of California ground squirrel (Otospermophilus beecheyi) Inhabits rolling hills, grasslands, fallow fields, sparsely vegetated desert scrub, vacant lots and other open human disturbed lands such as airports and golf courses. Absent from northwest coast and elevations above 5,500 feet (CDFW 2020).	Υ	Suitable habitat may be present in the BSA.
Buteo swainsoni	Swainson's hawk	None	ST	Nests in oak savanna and cottonwood riparian areas adjacent to foraging habitat of grasslands, agricultural fields, and pastures where they often follow farm equipment to gather killed and maimed rodents. Increasingly also nests in sparse stands of gum trees (Eucalyptus spp.) and Australian pines (Casuarina equisetifolia) and often forage along roadsides and grassy highway medians. Breeding resident in the Central Valley, Klamath Basin, Northeastern Plateau, and in juniper-sagebrush flats of Lassen County. Limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, and Antelope Valley. Winters primarily in Argentina, with most birds absent from California October through February, though a few overwinter in the Sacramento-San Joaquin River Delta. Prolific migrant through southern California in spring and fall, with large mixed-age groups of birds frequently observed kettling high overhead on thermals or foraging together on freshly cut agricultural fields (CDFW 2020).	Υ	Suitable habitat may be present in the BSA.



Charadrius montanus	mountain plover	None	SSC	Does not nest in California. Present in the state November through March in open grasslands and plowed fields with no or very short vegetation. Found in flocks mostly on the west side of the Central Valley from Colusa County south to Kern County, Carrizo Plain, Antelope Valley, Imperial Valley, and western Riverside County. Single individuals are rarely found on beaches or offshore islands (CDFW 2020).	N	Suitable habitat not present within the BSA.
Elanus leucurus	white-tailed kite	None	FP	Fairly common resident of the Central Valley, coast, and Coast Range Mountains. Nests in oak savanna, oak and willow riparian, and other open areas with scattered trees near foraging habitat. Forages in open grasslands, meadows, farmlands, and emergent wetlands. Often seen hover foraging over roadsides or grassy highway medians (CDFW 2020).	Y	Suitable habitat may be present within the BSA.
Icteria virens	yellow-breasted chat	None	SSC	Nests in early-successional riparian habitats with a well-developed shrub layer and an open canopy. Restricted to narrow borders of streams, creeks, sloughs, and rivers. Often nest in dense thickets of blackberry (<i>Rubus</i> spp.) and willow (<i>Salix</i> spp.) (Shuford and Gardali 2008).	N	Suitable habitat not present within the BSA.
Melospiza melodia	song sparrow (Modesto population)	None	SSC	Often found in emergent freshwater marshes dominated by bulrushes (Scirpus spp.), cattails (Typha spp.), and willow (Salix spp.). Also nests in riparian forests of valley oak (Quercus lobata) with a sufficient understory of blackberry (Rubus spp.), along vegetated irrigation canals and levees, and in recently planted valley oak restoration sites. Found throughout the Sacramento Valley, from the delta north to Chico (Shuford and Gardali 2008).	N	Suitable habitat not present within the BSA.
Progne subis	purple martin	None	ssc	Present in California from mid-March through late September. Requires concentrations of nesting cavities, relatively open air space above accessible nest sites, and relatively abundant aerial insect prey. In the coastal mountains, Cascade Range, and Sierra Nevada forbills, inhabits open forests, woodlands, and riparian areas. Extirpated as a breeder from most of the Central Valley except the Sacramento area where it has taken to nesting in hollow-box bridges. In southern California, now only a rare and local breeder on the coast and in interior mountain ranges, with few breeding localities. Absent from higher desert regions except as a rare migrant (Shuford and Gardali 2008).	N	Suitable habitat not present within the BSA.
Setophaga petechia	yellow warbler	None	SSC	Usually found in riparian deciduous habitats in summer: cottonwoods (<i>Populus</i> ssp.), willows (<i>Salix</i> ssp.), alders (<i>Alnus</i> ssp.), and other small trees and shrubs typical of low, open-canopy riparian woodland. Also breeds in montane shrubbery in open coniferous forests (CDFW 2020).	N	Suitable habitat not present within the BSA.
Vireo bellii pusillus	least Bell's vireo	FE	SE	Once occupied much of the Central Valley, but has disappeared from most its former range, and is now restricted to southern California from southern Inyo and Monterey Counties south through the South Coast and Inland Empire regions. Obligate riparian breeder, favoring cottonwood (<i>Populus</i> spp.), willow (<i>Salix</i> spp.), and oak (<i>Quercus</i> spp.) woodlands, and mule fat (<i>Baccharis salicifolia</i>) scrub along watercourses (USFW 2006).	N	Suitable habitat not present within the BSA.
Birds						
Sylvilagus bachmani riparius	Riparian brush rabbit	FE	SE	Found only at Caswell Memorial State Park on the Stanislaus River, San Joaquin County. Occur in relatively small areas of shrub/herbaceous edge, and in early successional stages of many habitats. Prefer dense brush cover of thickets, vines, brambles, or dense riparian habitat (CDFW 2020).	N	Suitable habitat not present within the BSA.
USFWS: U.S. Fish and Wildlife Service; CDFW: California Department of Fish and Wildlife; DPS: Distinct Population Segment						
, ,	t					
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch. Sacramento, CA.	t					
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch.	t					
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Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status:						
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and-Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status: Federal (USFWS-USFS-BLM)	State (CDFW)					
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Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status: Federal (USFWS-USFS-BLM) BGEPA Bald and Golden Eagle Protection Act FE Endangered	State (CDFW) SE Endangered ST Threatened					
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status: Federal (USFWS-USFS-BLM) BGEPA Bald and Golden Eagle Protection Act FE Endangered FT Threatened	State (CDFW) SE Endangered ST Threatened SCE Candidate Endangered					
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status: Federal (USFWS-USFS-BLM) BGEPA Bald and Golden Eagle Protection Act FE Endangered FT Threatened FCE Candidate Endangered	State (CDFW) SE Endangered ST Threatened SCE Candidate Endangered SCT Candidate Threatened					
Species Names and Status Follows; California Department of Fish and Wildlife. August 2019. Special Animals List. Available on-line: https://www.wildlife.ca.gov/Data/CNDDB/Plants-and- Animals CDFW Biogeographic Data Branch. Sacramento, CA. Species Status: Federal (USFWS-USFS-BLM) BGEPA Bald and Golden Eagle Protection Act FE Endangered FT Threatened FCE Candidate Endangered FCT Candidate Endangered	State (CDFW) SE Endangered ST Threatened SCE Candidate Endangered SCT Candidate Threatened SCD Candidate for delisting					





Unidentified burrow: Fresh burrow in Slough under crossing bridge, one of many in complex, looking north (37.945074266789426, -121.2738179137197)



Representative Project Photos (Rail Crossing): None, looking north (37.94699592742171, -121.27223642223692)



Representative of non-BUOW habitat: Many plots throughout project are similar. Hardpan, gravel, or concreted over with no visible burrows. (37.95008534569102, -121.27540921803684)

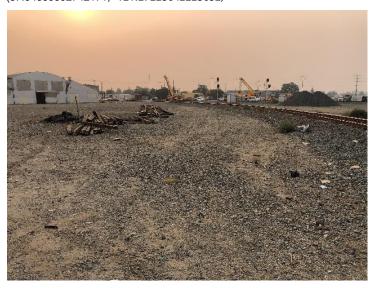


Representative Project Photos (Rail Crossing): None, looking east (37.94699592742171, -121.27223642223692)





Representative Project Photos (Rail Crossing): None, looking south (37.94699592742171, -121.27223642223692)



Representative Site Photo: None, looking east (37.9476750037055, - 121.27576972369224)



Representative Project Photos (Rail Crossing): None, looking west (37.94699592742171, -121.27223642223692)



Representative Project Photo 1: None, looking north (37.94759877029615, -121.27744057227044)





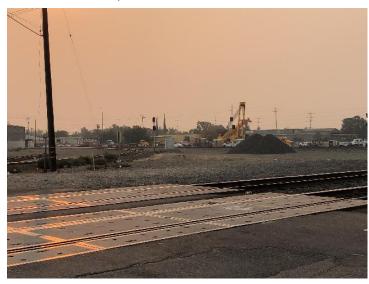
Representative Project Photo 1: None, looking east (37.94759877029615, - 121.27744057227044)



Representative Project Photo 1: None, looking west (37.94759877029615, - 121.27744057227044)



Representative Project Photo 1: None, looking south (37.94759877029615, - 121.27744057227044)



Representative Gravel/Ruderal Habitat: None, looking east (37.94768912721234, - 121.27626190904648)





Citizen Camp at Rail Crossing: None, looking southwest (37.947722193820354, - 121.27586670231192)



Empty lot with planned improvements (cumulative impacts): None, looking northwest (37.954955105705146, -121.2769528293249)



Citizen Camp at Rail Crossing: None, looking northwest (37.947722193820354, - 121.27586670231192)





Representative Project Photo 2: None, looking north (37.95494232330281, -121.27683003444344)



Representative Project Photo 2: None, looking south (37.95494232330281, - 121.27683003444344)



Representative Project Photo 2: None, looking east (37.95494232330281, - 121.27683003444344)



Representative Project Photo 2: None, looking west (37.95494232330281, - 121.27683003444344)





Representative Project Photo 3: None, looking north (37.948676766863045, - 121.27646667894096)



Representative Project Photo 3: None, looking south (37.948676766863045, - 121.27646667894096)



Representative Project Photo 3: None, looking east (37.948676766863045, - 121.27646667894096)



Representative Project Photo 3: None, looking west (37.948676766863045, - 121.27646667894096)





Representative Project Photo 4: None, looking north (37.941717664379254, - 121.27279666010124)



Representative Project Photo 4: None, looking south (37.941717664379254, - 121.27279666010124)



Representative Project Photo 4: None, looking east (37.941717664379254, - 121.27279666010124)



Representative Project Photo 4: None, looking west (37.941717664379254, - 121.27279666010124)





Representative Project Photo 5: None, looking north (37.947074532531666, - 121.27184401430831)



Representative Project Photo 5: None, looking south (37.947074532531666, - 121.27184401430831)



Representative Project Photo 5: None, looking east (37.947074532531666, - 121.27184401430831)

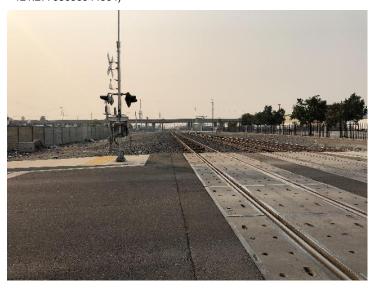


Representative Project Photo 5: None, looking west (37.947074532531666, - 121.27184401430831)





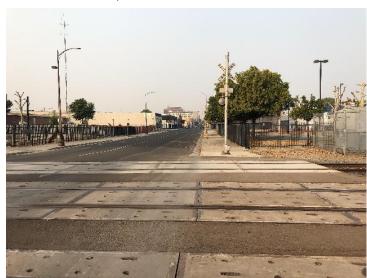
Representative Project Photo 6: None, looking north (37.95478688090849, - 121.27798656944304)



Representative Project Photo 6: None, looking south (37.95478688090849, - 121.27798656944304)



Representative Project Photo 6: None, looking east (37.95478688090849, - 121.27798656944304)



Representative Project Photo 6: None, looking west (37.95478688090849, - 121.27798656944304)





Representative Project Photo 7: None, looking north (37.95003467708635, - 121.27534425828723)



Representative Project Photo 7: None, looking south (37.95003467708635, - 121.27534425828723)



Representative Project Photo 7: None, looking east (37.95003467708635, - 121.27534425828723)

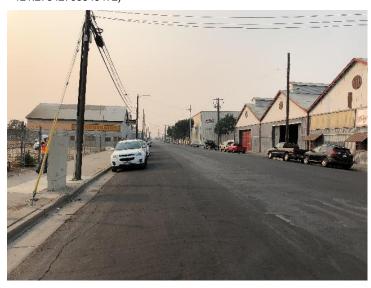


Representative Project Photo 7: None, looking west (37.95003467708635, - 121.27534425828723)





Representative Project Photo 8: None, looking north (37.95149581044721, - 121.27842703845472)



Representative Project Photo 8: None, looking south (37.95149581044721, - 121.27842703845472)



Representative Project Photo 8: None, looking east (37.95149581044721, - 121.27842703845472)



Representative Project Photo 8: None, looking west (37.95149581044721, - 121.27842703845472)





Representative Project Photo 9: None, looking north (37.9517140752058, - 121.27716254454224)



Representative Project Photo 9: None, looking south (37.9517140752058, - 121.27716254454224)



Representative Project Photo 9: None, looking east (37.9517140752058, - 121.27716254454224)



Representative Project Photo 9: None, looking west (37.9517140752058, - 121.27716254454224)





Slough 1: None, looking west (37.9445950933193, -121.27158329431607)



Slough 3: None, looking west (37.94482499391616, -121.27252193754263)



Slough 2: None, looking east (37.94482499391616, -121.27252193754263)



Street Trees 1: None, looking northwest (37.949671908317086, - 121.27801565464704)





Street Tees 2: None, looking east (37.94846579436022, -121.27774617646008)



Union spare park: None, looking east (37.948892056046006, -121.27538440760344)



Street Trees 3: None, looking west (37.949771569145796, - 121.2770894543466)



Union square park: None, looking northeast (37.94808039445239, - 121.27455468300847)





Upstream Slough Extent: None, looking west (37.947034500574645, - 121.28291496086985)

Cross representative photos: None, looking north (37.94699592742171, -121.27223642223692)



Upstream Slough Extent: None, looking east (37.947034500574645, -121.28291496086985)

Cross representative photos: None, looking east (37.94699592742171, -121.27223642223692)



Botanical List - Field Visit 10/01/2020

Acer negundobox elderAilanthus altissimatree of heavenAlnus rhombifoliawhite alderArundo donaxarundoAvena spp.wild oat

brome species Bromus spp. Carduus pycnocephalus Italian thistle Cedrus spp. cedar species Centaurea solstitialis star thistle Cinnamomum camphora camphor Cynara cardunculus wild artichoke Datura stramonium jimsonweed Digitaria sanguinalis crab grass Epilobium spp. willowherb

Eucalyptus globuluseucalyptusFicus caricafigFoeniculum vulgarefennelFraxinus spp.ash speciesHeterotheca grandifloratelegraphweed

horseweed

Holocarpha macradenia tarplant

Erigeron canadensis

Kali tragus

Lactuca serriola

Morus alba

Olea europaea

Pinus spp.

Quercus suber

Russian thistle

prickly lettuce

white mulberry

olive tree

pine species

cork oak

Quercus wislizeniinterior live oakRaphanus spp.mustard speciesSolanum elaeagnifoliumsilverleaf nightshadeWashingtonia robustaMexican fan palm

Wildlife List - Field Visit 10/01/2020

Columbidae spp. pigeon

Corvus brachyrhynchos American crow Corvus corax common raven Haemorhous mexicanus house finch

Lepus californicus black-tailed jackrabbit Melanerpes formicivorus acorn woodpecker Mimus polyglottos northern mocking bird

Sayornis nigricans black phoebe

Sceloporus occidentalis western fence lizard Zenaida macroura mourning dove