Appendix A BIOLOGICAL RESOURCES BACKGROUND INFORMATION



Special-status Species Considered for Potential to Occur in or near the Project Site

PLANTS

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Astragalus tener var. tener Alkali milk-vetch	-	-	1B.2	-	Playas, valley and foothill grasslands in adobe clay, wetlands, vernal pools. Alkaline soils. 1-60 meters. Blooms March through June.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Atriplex cordulata var. cordulata heartscale	-	-	1B.2	-	Chenopod scrub, valley and foothill grassland, meadows and seeps. Alkaline flats and scalds in the Central Valley, sandy soils. 3-275 meters. Blooms April through October.	None. The project site lacks suitable habitat for this species. Nearest CNDDB occurrence is approximately 2 miles north of the project site.
Atriplex minuscula lesser saltscale	-	-	18.1	-	Chenopod scrub, playas, valley and foothill grassland. Occasionally occurs in wetlands. Alkaline and sandy soils. 15-200 meters. Blooms May through October.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Atriplex persistens vernal pool smallscale	-	-	1B.2	-	Vernal pools in alkaline soils at the bottom of basins. 10-115 meters. Blooms June through October.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Atriplex subtilis subtle orache	-	1	1B.2	-	Valley and foothill grasslands in alkaline soils, often near vernal pools. 40-100 meters. Blooms June through October.	None. The project site lacks suitable habitat for this species. Nearest CNDDB occurrence is approximately 2 miles north of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Clarkia rostrate Beaked clarkia	-	-	1B.3	-	Cismontane woodlands, valley and foothill grasslands. North facing slopes; sometimes on sandstone. 60-500 meters. Blooms April through May.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Eryngium racemosum Delta button- celery	-	SE	1B.1	-	Seasonally flooded clay depressions in floodplains, riparian scrub. 3-30 meters. Blooms June through October.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Lasthenia chrysantha Alkali-sink goldfields	-	-	1B.1	-	Vernal pools, wet saline flats, valley grassland, foothill woodland. 0-100 meters. Blooms February through April.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Monardella leucocephala Merced monardella	-	-	1A	-	Valley and foothill grassland in sandy and mesic soils. 35-100 meters. Blooms May through August.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Neostapfia colusana Colusa grass	FT	SE	1B.1	-	Vernal pools, wetlands, valley grassland, wetland-riparian. 5-200 meters. Blooms May through August.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Orcuttia inaequalis San Joaquin Valley Orcutt grass	FT	SE	1B.1	-	Vernal pools, alluvial fans, high and low stream terraces, tabletop lava flows. Soils are acidic and vary from clay to sandy loam. 10-755 meters. Blooms April through September.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Puccinellia simplex California alkali grass	-	-	1B.2	-	Meadows and seeps, chenopod scrub, valley and foothill grasslands, vernal pools. Alkaline, vernally mesic. Sinks, flats, and lake margins. 1-915 meters. Blooms March through May.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Sphenopholis obtusata prairie wedge grass	-	-	2B.2	-	Cismontane woodland, wet meadows and seeps, streambanks, ponds in mesic soils. 300-2,000 meters. Blooms April through July.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.
Tuctoria greenei Greene's tuctoria	FE	Rare	1B.1	-	Vernal pools. 30-1,070 meters. Blooms May through September.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site.

INVERTEBRATES

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Bombus crotchii Crotch bumble bee	-	Candi- date	-	-	Open grassland and scrub habitats. Nests underground in rodent burrows and bush piles. Forages primarily on plants from the genera Asclepias, Chaenactis, Lupinus, Medicago, Phacelia, and Salvia.	Not expected. The project site lacks suitable native nectar source habitat for this species. Nearest CNDDB occurrence is approximately 2 miles southeast of the project site. The presence of active agricultural activities in the project site and surrounding area indicates that herbicide and/or pesticide is likely used, which further reduces the possibility for this species to occur.
Branchinecta lynchi vernal pool fairy shrimp	FT	-	-	-	Endemic to astatic rain-filled vernal pools within the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains. Inhabit small, clear-water sandstone-depression pools and grassy swales, earth slump, or basalt-flow depression pools.	None. The project site lacks suitable vernal pool habitat for this species. No CNDDB records are known within 5 miles of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Desmocerus californicus dimorphus valley elderberry longhorn beetle	FT	-	-	-	Occurs only in the Central Valley of California, in association with blue elderberry (Sambucus mexicana) that possess basal stem diameters of 1 inch or greater. Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries.	None. The project site lacks suitable host plant habitat for this species. No CNDDB records are known within 5 miles of the project site.
Lepidurus packardi vernal pool tadpole shrimp	FE	-	-	-	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass-bottomed swales of unplowed grasslands. Some pools are mud-bottomed and highly turbid.	None. The project site lacks suitable vernal pool habitat for this species. No CNDDB records are known within 5 miles of the project site.

AMPHIBIANS AND REPTILES

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Ambystoma californiense California tiger salamander	FT	ST	-	-	Central Valley distinct population segment (DPS) federally listed as threatened. Santa Barbara and Sonoma counties DPS federally listed as endangered. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	None. The project site lacks suitable burrow complexes near breeding habitat and suitable breeding habitat for this species. No CNDDB records are known within 5 miles of the project site.
Anniella pulchra Northern California legless lizard	-	SSC	-	-	Common in several habitats but especially in coastal dune, valley-foothill, chaparral, and coastal scrub types. Feed and seek cover in leaf litter and in loose soil. Will also seek cover under surface objects such as flat boards and rocks, require substrates that are slightly moist.	None. The project site lacks suitable habitat for this species, as most of the project site is actively maintained (disced) agricultural field. Nearest CNDDB occurrence is approximately 2 miles southeast of the project site and is significantly isolated from the project site by numerous barriers to movement (highways, roads, and extensive patches of development).

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Emys marmorata western pond turtle		SSC	-	-	An aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6,000 feet elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 kilometer from water for egglaying.	Not Expected. Suitable aquatic and upland habitat are absent from the project site; however, suitable aquatic habitat is present within the detention basin south of the project site. The project site is likely not accessible for species movement traveling from the detention basin to the site due to the steep-walled Turlock Irrigation District (TID) Lateral No. 4 acting as a barrier. This species may occur within the TID Lateral No. 4, but high water velocity during the irrigation season and lack of vegetation reduce this possibility. Were the species to occur within Lateral No. 4, the steep concrete-lined walls would likely prevent movement outside of the canal near the project site. The nearest CNDDB occurrence is approximately 5 miles southwest of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Rana draytonii California red- legged frog	FT	SSC	-	-	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	None. The project site lacks suitable habitat for this species. The Turlock Irrigation District Lateral No. 4 conveys high water velocity during the irrigation season and lacks vegetation. The detention basin is not expected to contain water for a duration sufficient to support breeding and larval development. No CNDDB records are known within 5 miles of the project site.
Thamnophis gigas giant gartersnake	FT	ST	-	-	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals and irrigation ditches. Highly associated with aquatic habitat with occasional seasonal use of immediately adjacent banks.	None. The project site lacks suitable habitat for this species. No CNDDB records are known within 5 miles of the project site, which is significantly outside of and isolated from the species current population areas.

FISH

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Hypomesus transpacificus Delta smelt	FT	SE	-	-	Sacramento-San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Seldom found at salinities > 10 parts per thousand (ppt). Most often at salinities < 2ppt.	None. Suitable aquatic habitat is absent from the project site. No CNDDB records are known within 5 miles of the project site.
Mylopharodon conocephalus hardhead	-	SSC	-	-	Juveniles are often found in small groups in pools, runs and moving water, while adults tend to school in the deepest part of pools. Found in the Sacramento-San Joaquin drainage.	None. Suitable aquatic habitat is absent from the project site. No CNDDB records are known within 5 miles of the project site.
Oncorhynchus mykiss irideus steelhead – Central Valley DPS	FT	-	-	-	Populations in the Sacramento and San Joaquin Rivers and their tributaries.	None. Suitable aquatic habitat is absent from the project site. No CNDDB records are known within 5 miles of the project site.
Pogonichthys macrolepidotus Sacramento splittail	-	SSC	-	-	Largely confined to the Delta, Suisun Bay, Suisun Marsh, Napa River, Petaluma River, and other parts of the San Francisco Estuary, while spawning on upstream floodplains and channel edges. A small population may live or migrate to the Sacramento River.	None. Suitable aquatic habitat is absent from the project site. No CNDDB records are known within 5 miles of the project site.

BIRDS

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Agelaius tricolor tricolored blackbird	-	ST, SSC	-	-	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Nests in freshwater marshes with tules or cattails, or in other dense thorny vegetation such as thistle, blackberry thickets, etc. Requires open water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony.	None. The project site lacks suitable colony nesting habitat for this species. Nearest CNDDB occurrence is documented approximately 4.5 miles south of the project site.
Ardea herodias Great blue heron	MBTA (nesting colony only)	-	-	-	Usually nests in trees, but also on large bushes, poles, reedbeds, and even on the ground. Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.	None. The project site lacks suitable rookery habitat for this species. No CNDDB records are known within 5 miles of the project site.

Athene cunicularia Burrowing owl	-	SSC	-	-	Typically breeds in open, treeless areas within grassland but will also utilize agricultural fields, golf courses, airports, vacant urban lots and fairgrounds. Utilize man-made objects for burrows such as road culverts, construction pipes, artificial burrows, and rubble/rock piles.	Possible. Numerous rodent burrows were observed within the berm that separates the project site from the adjacent orchard; however, no evidence of owl occupation was observed (e.g., feathers, bones, pellets, whitewash) was observed. Additionally, burrows were observed directly south of the site in the sandy area between the detention basin and the TID Lateral No. 4 canal. The project site contains an open area which is suitable for burrowing owl foraging. The presence of trees near the project site reduce the possibility for burrowing owl to occur, since these trees represent suitable predatory raptor perches. An e-bird sighting from 1985 at California State University (CSU), Stanislaus was documented in 2020, approximately 2 miles northeast of the project site; the number of individuals observed is not listed (ebird 2020a). No CNDDB records are known within 5 miles of the project site.
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Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Branta hutchinsii leucopareia Cackling (=Aleutian Canada) goose	MBTA (active nest)	-	-	-	Preferred habitats include lacustrine, fresh emergent wetlands, and moist grasslands, croplands, pastures, and meadows. Feeds mainly on green shoots and seeds of cultivated grains and wild grasses and forbs, and also feeds on aquatic plants. Typically roosts on open water of lakes or ponds.	Not Expected. The project site lacks suitable nesting habitat for this species; however, suitable foraging habitat exists within the detention basin south of the project site. Six individuals were observed at Donnelly Park in 2019, approximately 1.2 miles northeast of the project site (ebird.org 2020b). No CNDDB records are known within 5 miles of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Buteo swainsoni Swainson's hawk	-	ST	-	-	Breeds in groves or lines of tall trees in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Possible. This species is known to occur in the region. Suitable nesting habitat is absent from the project site itself; however, this species could use the project site to forage, and suitable nesting habitat (trees) occur on the west side of Dianne Drive within the nearby vicinity. One individual was observed at CSU Stanislaus in 2020, approximately 2 miles northeast of the project site (ebird 2020a). Two CNDDB occurrences are located within 5 miles of the project site; one occurrence is approximately 1.5 miles north, and the other occurrence is approximately 5 miles south of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Circus hudsonius Northern harrier	-	SSC	-	-	Found throughout lowlands of California in grasslands, meadows, seasonal and agricultural wetlands, and marshes. Species nests within thickets of vegetation on the ground.	Possible. This species is known to occur within the region. Suitable nesting habitat is absent within the project site (since vegetation is routinely maintained for agricultural purposes); however, this species could use the project site to forage. Suitable nesting habitat is present south of the project site within the vegetation surrounding the detention basin. No CNDDB records are known within 5 miles of the project site, but this species is infrequently tracked by the CNDDB.
Egretta thula Snowy egret	MBTA (nesting colony only)	-	-	-	Found along the shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. Feeds in shallow waters and nests in dense marshes or low trees on stick nests.	None. Suitable aquatic habitat is absent from the project site, but the species could forage in the detention basin south of the project site. Suitable nesting habitat is absent from the project site. No CNDDB records are known within 5 miles of the project site, but this species is infrequently tracked in the CNDDB.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Elanus leucurus White-tailed kite	-	FP	-	-	Occurs in lowlands west of the Sierra Nevada Mountains from the northern portion of the Sacramento Valley south to the U.S./Mexico border, including coastal valleys and foothills. Nests in trees or shrubs with dense foliage and forages over open grasslands, agricultural fields, and marshes.	Possible. This species is known to occur in the region. Suitable nesting habitat is absent from the project site; however, this species could forage within the project site, and suitable nesting habitat (trees) occur on the west side of Dianne Drive within the nearby vicinity. No CNDDB records of this species are known within 5 miles of the project site, but this species is infrequently tracked in the CNDDB.
Falco peregrinus Peregrine falcon	DL	FP	-	-	This raptor is adapted to open habitats in all seasons. Shows preference for breeding sites near water with nearby cliffs or ledges for nesting sites. They do not build nests, but instead make scrapes in various substrates.	Not Expected. Peregrine falcons forage throughout the Central Valley; however, nesting does not typically occur within the Valley floor. No suitable nesting habitat occurs within or around the project site. No CNDDB records of the species are known within 5 miles of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Vireo bellii pusillus Least Bell's vireo	FE	SE	-	-	scattered cover and hedgerows in cultivated areas, riparian woodlands. Nests in shrubs or low trees. Historically an abundant breeder	None. Suitable riparian nesting habitat is absent from the project site and the project site is outside of the species current nesting range. No CNDDB records are known within 5 miles of the project site.

MAMMALS

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Antrozous pallidus Pallid bat	-	-	-	High priority	Found in arid regions with rocky outcroppings, to open, sparsely vegetated grasslands. Roost in attics, shutters, crevices, buildings, caves, cracks in rocks, trees, bridges, and barns. They have also been found roosting on the ground under burlap sacks, stone piles, rags and baseboards. Forages over grasslands, forests, roads, fruit orchards, and vineyards. Requires water.	Not expected. Suitable roosting habitat is absent from the project site. Suitable roosting habitat is potentially present in trees with cavities in the surrounding vicinity, but these trees would not be affected by the project. No CNDDB records are known within 5 miles of the project site.

Species Name (Sci./Common)	Federal	State	CNPS	WBWG	Habitat/Characteristics	Potential to Occur in the Project Site
Corynorhinus townsendii Townsend's big- eared bat	-	SSC	-	High priority	Found in coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types.	Not expected. Suitable roosting habitat is absent from the project are. Suitable roosting habitat is potentially present in trees in the surrounding vicinity, but these trees would not be affected by the project. No CNDDB records are known within 5 miles of the project site.
Lasiurus blossevilli Western red bat	-	SSC	-	High priority	Roosts primarily in the foliage of trees or shrubs. Day roosts are commonly in edge habitats adjacent to streams or open fields, in orchards, and sometimes in urban areas.	Not expected. Suitable roosting habitat is absent from the project site. Suitable roosting habitat is potentially present in the orchard trees adjacent to the project site, but these trees would not be impacted by the project. No CNDDB records are known within 5 miles of the project site.
Lasiurus cinereus Hoary bat	-	-	-		Found in open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Requires water.	Not expected. Suitable roosting habitat is absent from the project site. Suitable roosting habitat is potentially present within the trees in the project vicinity, but these trees would not be impacted by the project. Nearest CNDDB record is documented approximately 2 miles southeast of the project site.

U.S. Fish an	d Wildlife Service (Federal) Listing Categories:	California I	Native P	lant Society (CNPS) Listing Categories			
Candidate	Federal Candidate for Listing	1A	Presu	med extirpated or extinct in California			
DL	Federally Delisted	1B.1	Rare,	threatened, or endangered in California and			
FE	Federally Listed as Endangered		elsew	here; seriously threatened in California			
FT	Federally listed as Threatened	1B.2		threatened, or endangered in California and			
MBTA	Migratory Bird Treaty Act			here; fairly threatened in California			
-	No Listing	2B.1		threatened, or endangered in California, but			
California D Listing Cate	epartment of Fish and Wildlife(State)	20.2	more common elsewhere; seriously threatened in California				
Candidate	State Candidate for Listing	2B.2	•	Rare, threatened, or endangered in California, but more common elsewhere; fairly threatened in			
SE	State listed as Endangered		Califo	• •			
FP	State Fully Protected Species	Western Ri	at Worki	ing Group (WBWG)			
SR	State listed as Rare	High priori		Imperiled or at high risk of imperilment.			
SSC	Species of Special Concern	Moderate	-	Level of concern that should warrant closer			
ST	State listed as Threatened	Moderate	priority	evaluation, more research, and conservation			
-	No Listing			actions of both the species and possible threats.			
Special-stat	rus Species Potential to Occur Criteria						
None	Indicates that the project site completely lacks suit not overlap with the project site, and/or the species						
Not Expecte	from the nearest extant occurrences. Habitat suitability refers to factors such as elevation, soil chemistry and type, vegetation communities, microhabitats, continuity with patches of nearby suitable habitat, and degraded/substantially altered habitats.						
Possible	Indicates the presence of suitable habitat or key ha	abitat elemer	nts that	potentially support the species.			
Present	Indicates that either the target species was observed directly, or its presence was confirmed by diagnostic signs during field investigations or in previous studies in the area.						

References

- ebird. 2020a. ebird Field Checklist. CSU Stanislaus observations of burrowing owl and Swainson's hawk. Available at:

 https://ebird.org/printableList?regionCode=L8325649&yr=all&m=. Accessed August 12, 2020.
- ebird. 2020b. ebird Field Checklist. Donnelly Park observations of Cackling Goose. Available at: https://ebird.org/printableList?regionCode=L1352134&yr=all&m=. Accessed August 12, 2020.

Furlock North Valley Laboratory Replacement Project	January 2021 A-2
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	Background Informatio
California Department of Food and Agriculture	Appendix A. Biological Resource

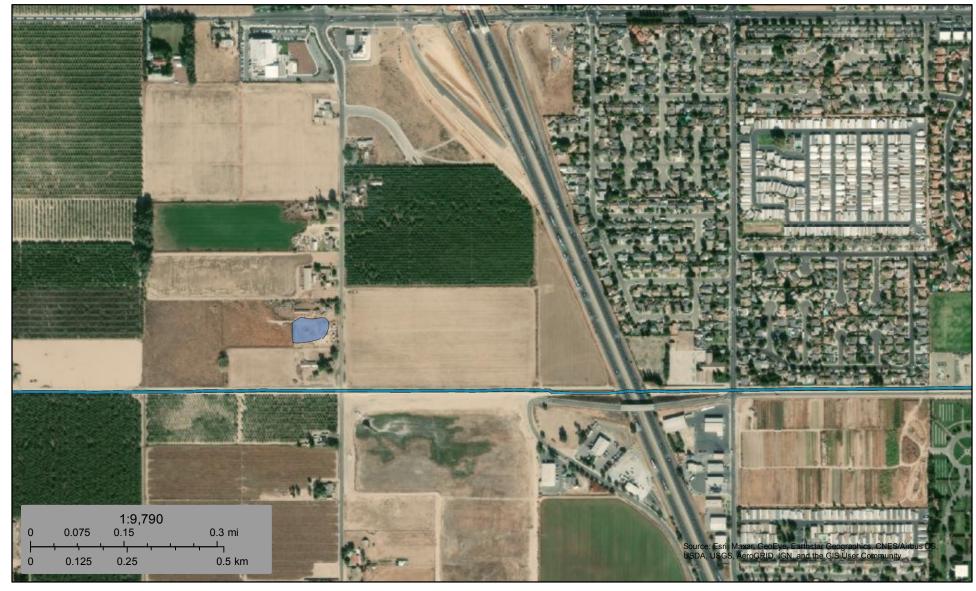
Supporting Information This section of the appendix includes complex tables that are not accessible using an assistive device such as a screen reader. For assistance please contact the California Relay Service by dialing 711.

PISH A WILDLIPE SERVICE

U.S. Fish and Wildlife Service

National Wetlands Inventory

Turlock Lab Replacement



November 5, 2020

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

_ Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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

Stanislaus 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 species

¹ 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>.

- 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:

Reptiles

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

NAME **STATUS** Giant Garter Snake Thamnophis gigas **Threatened** No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482 **Amphibians** NAME **STATUS** California Red-legged Frog Rana draytonii **Threatened** There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/2891 California Tiger Salamander Ambystoma californiense Threatened There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/2076 **Fishes** NAME **STATUS** Delta Smelt Hypomesus transpacificus **Threatened** There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/321 Insects NAME **STATUS** Valley Elderberry Longhorn Beetle Desmocerus californicus **Threatened** dimorphus There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/7850 Crustaceans NAME **STATUS** Vernal Pool Fairy Shrimp Branchinecta lynchi **Threatened** There is final critical habitat for this species. Your location is outside the critical habitat.

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

Flowering Plants

NAME STATUS

San Joaquin Orcutt Grass Orcuttia inaequalis

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

https://ecos.fws.gov/ecp/species/5506

Threatened

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 Act².

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 Bald and Golden Eagle Protection Act 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</u> of <u>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

below. 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 E-bird data mapping tool (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 below.

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.)

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

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

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

<u>Nationwide Conservation Measures</u> 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. <u>Additional measures</u> and/or <u>permits</u> 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</u> (AKN). 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</u>, <u>banding</u>, <u>and citizen science datasets</u>.

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:

RIVERINE

R4SBCx

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.

NOT FOR CONSULTATION



Selected Elements by Scientific Name

California Department of Fish and Wildlife



California Natural Diversity Database

Query Criteria:

Quad IS (Riverbank (3712068) OR Salida (3712161) OR Waterford (3712067) OR Brush Lake (3712151) OR Ceres (3712058) OR Denair (3712057) OR Crows Landing (3712141) OR Hatch (3712048) OR Turlock (3712047))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
tricolored blackbird	7.51.57.500.50			0_00	0.02	
Ambystoma californiense	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
California tiger salamander						
Anniella pulchra	ARACC01020	None	None	G3	S3	SSC
northern California legless lizard						
Ardea herodias	ABNGA04010	None	None	G5	S4	
great blue heron						
Astragalus tener var. tener	PDFAB0F8R1	None	None	G2T1	S1	1B.2
alkali milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Atriplex cordulata var. cordulata	PDCHE040B0	None	None	G3T2	S2	1B.2
heartscale						
Atriplex minuscula	PDCHE042M0	None	None	G2	S2	1B.1
lesser saltscale	DD 01 IF0 40D0	Maria	M	00	00	40.0
Atriplex persistens vernal pool smallscale	PDCHE042P0	None	None	G2	S2	1B.2
Atriplex subtilis	PDCHE042T0	None	None	G1	S1	1B.2
subtle orache	FDCHE04210	None	None	Gi	31	10.2
Bombus caliginosus	IIHYM24380	None	None	G4?	S1S2	
obscure bumble bee	111111121000	110110	110110	0 1.	0.02	
Bombus crotchii	IIHYM24480	None	Candidate	G3G4	S1S2	
Crotch bumble bee			Endangered			
Branchinecta lynchi	ICBRA03030	Threatened	None	G3	S3	
vernal pool fairy shrimp						
Branta hutchinsii leucopareia	ABNJB05035	Delisted	None	G5T3	S3	WL
cackling (=Aleutian Canada) goose						
Buteo swainsoni	ABNKC19070	None	Threatened	G5	S3	
Swainson's hawk						
Clarkia rostrata	PDONA050Y0	None	None	G2G3	S2S3	1B.3
beaked clarkia						
Corynorhinus townsendii	AMACC08010	None	None	G3G4	S2	SSC
Townsend's big-eared bat						
Desmocerus californicus dimorphus	IICOL48011	Threatened	None	G3T2	S2	
valley elderberry longhorn beetle						
Dipodomys heermanni dixoni	AMAFD03062	None	None	G3G4T2T3	S2S3	
Merced kangaroo rat						



Selected Elements by Scientific Name

California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Egretta thula	ABNGA06030	None	None	G5	S4	330 01 FF
snowy egret	7.5.107.00000	110110	110110	33	•	
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eryngium racemosum	PDAPI0Z0S0	None	Endangered	G1	S1	1B.1
Delta button-celery						
Lasiurus cinereus	AMACC05030	None	None	G5	S4	
hoary bat						
Lasthenia chrysantha	PDAST5L030	None	None	GNR	SNR	1B.1
alkali-sink goldfields						
Lepidurus packardi	ICBRA10010	Endangered	None	G4	S3S4	
vernal pool tadpole shrimp						
Lytta moesta	IICOL4C020	None	None	G2	S2	
moestan blister beetle						
Monardella leucocephala	PDLAM180C0	None	None	GX	SX	1A
Merced monardella						
Mylopharodon conocephalus	AFCJB25010	None	None	G3	S3	SSC
hardhead						
Neostapfia colusana	PMPOA4C010	Threatened	Endangered	G1	S1	1B.1
Colusa grass						
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Orcuttia inaequalis	PMPOA4G060	Threatened	Endangered	G1	S1	1B.1
San Joaquin Valley Orcutt grass						
Pogonichthys macrolepidotus	AFCJB34020	None	None	GNR	S3	SSC
Sacramento splittail						
Puccinellia simplex	PMPOA53110	None	None	G3	S2	1B.2
California alkali grass						
Sphenopholis obtusata	PMPOA5T030	None	None	G5	S2	2B.2
prairie wedge grass						
Tuctoria greenei	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
Greene's tuctoria						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						

Record Count: 36



Inventory of Rare and Endangered Plants

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

Plant List

3 matches found. Click on scientific name for details

Search Criteria

California Rare Plant Rank is one of [1A, 1B, 2A, 2B, 3, 4], FESA is one of [Endangered, Threatened, Candidate], CESA is one of [Endangered, Threatened, Rare], Found in Quads 3712161, 3712068, 3712067, 3712151, 3712058, 3712057, 3712141, 3712048 and 3712047;

Lifeform is one of ITree. Shrub. Leaf succulent, Herb. Vine, Stem succulent, Lichen, Moss, Liverwortl. Duration is one of [ann, per, ephem],

Bloom Time is one of [January, February, March, April, May, June, July, August, September, October, November, December]

Modify Search Criteria Export to Excel Modify Columns Modify Sort Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Neostapfia colusana	Colusa grass	Poaceae	annual herb	May-Aug	1B.1	S1	G1
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Poaceae	annual herb	Apr-Sep	1B.1	S1	G1
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Ju l (Sep)	1B.1	S1	G1

Suggested Citation

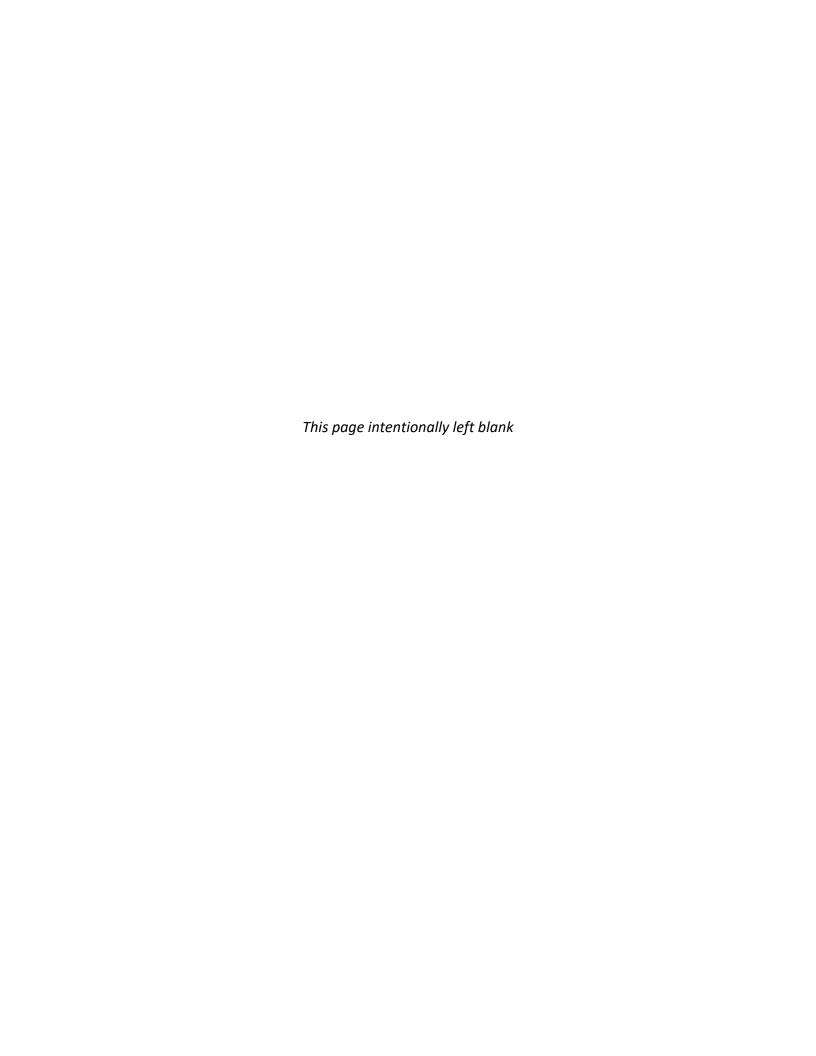
California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 20 July 2020].

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
		CalPhotos

Questions and Comments

rareplants@cnps.org

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Appendix B
NOISE MONITORING DATA AND ANALYSIS



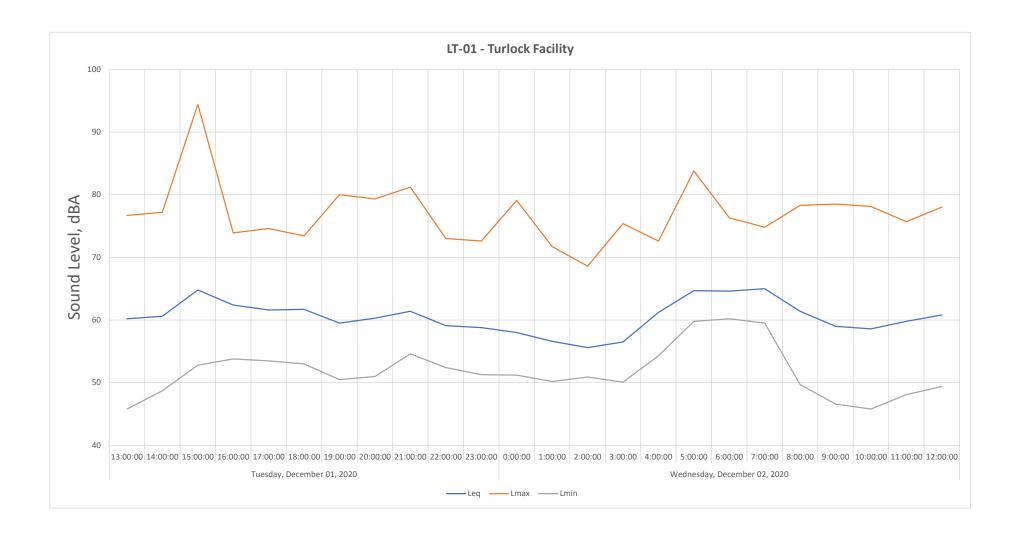
Long-Term 24 Hour Continuous Noise Monitoring Model Input Sheet

Project: 60645875 - CDFA Turlock Lab

Date: Tuesday, December 01, 2020 to Wednesday, December 02, 2020

Site: LT-01

Hour	Leq	Lmax	L50	L90			Aver	ages	
13:00	60.2	95.8	52.5	48.4		Leq	Lmax	L50	L90
14:00	60.6	96.2	55.4	51.5	Daytime (7 a.m 7 p.m.)	61.8	96.8	56.6	53.1
15:00	64.8	100.4	58.5	56.0	Evening (7 p.m 9 p.m.)	60.5	96.0	57.8	54.9
16:00	62.4	97.9	59.7	57.1	Nighttime (9 p.m 7 a.m.)	60.7	95.0	58.1	55.8
17:00	61.6	97.2	59.1	55.7					
18:00	61.7	97.3	59.6	56.1					
19:00	59.5	95.1	55.6	52.6					
20:00	60.3	95.9	58.2	55.2		ι	Jppermo	st-Lev	el
21:00	61.4	97.0	59.6	57.0		Leq	Lmax	L50	L90
22:00	59.1	94.7	57.7	54.8	Daytime (7 a.m 7 p.m.)	65.0	100.6	64.1	61.2
23:00	58.8	94.3	57.6	54.7	Evening (7 p.m 9 p.m.)	61.4	97.0	59.6	57.0
0:00	58.0	93.6	56.4	54.2	Nighttime (9 p.m 7 a.m.)	64.7	100.3	63.6	62.0
1:00	56.6	92.1	55.1	52.7					
2:00	55.6	91.1	54.7	52.6					
3:00	56.5	92.1	54.2	52.3					
4:00	61.2	96.7	59.9	57.0		Per	centage	of Ene	∍rgy
5:00	64.7	100.3	63.6	62.0		Daytime		56%	
6:00	64.6	100.1	63.4	61.6		Evening		10%	
7:00	65.0	100.6	64.1	61.2		Nighttime	Э	33%	
8:00	61.4	96.9	59.9	52.5					
9:00	59.0	94.6	50.8	48.2					
10:00	58.6	94.2	50.6	47.8					
11:00	59.8	95.4	53.9	50.9		Cal	culated		dBA
12:00	60.8	95.1	54.6	51.5			67	.5	



Project-Generated Construction Source Noise Prediction Model



60645875 - CDFA Turlock Lab

	Distance to Nearest	Combined Predicted		Reference Emission Noise Levels (L_{max}) at 50	Usage
Location	Receiver in feet	Noise Level (Leg dBA)	Assumptions:	feet ¹	Factor ¹
Threshold*	591	60	Excavator	85	0.4
	50	87	Dump Truck	84	0.4
			Dozer	85	0.4
			Grader	85	0.4
			Pickup Truck	55	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level ²	L _{eq} dBA at 50 feet ²
Excavator	81.0
Dump Truck	80.0
Dozer	81.0
Grader	81.0
Pickup Truck	51.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)

86.8

Sources

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

¹ Obtained from the FHWA Roadway Construction Noise Model, Janua

 $^{^2}$ Based on the following from the Federal Transit Noise and Vibration I $L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)$

Project-Generated Construction Source Noise Prediction Model



60645875 - CDFA Turlock Lab

				Reference Emission	
	Distance to Nearest	Combined Predicted		Noise Levels (L _{max}) at 50	Usage
Location	Receiver in feet	Noise Level (L _{eg} dBA)	Assumptions:	feet ¹	Factor ¹
Threshold*	585	60	Excavator	85	0.4
	50	87	Dozer	85	0.4
			Flat Bed Truck	84	0.4
			Crane	85	0.16
			Man Lift	85	0.2

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level ²	L _{eq} dBA at 50 feet ²
Excavator	81.0
Dozer	81.0
Flat Bed Truck	80.0
Crane	77.0
Man Lift	78.0

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)

86.7

Sources

Where: E.L. = Emission Level;

U.F.= Usage Factor;

G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

¹ Obtained from the FHWA Roadway Construction Noise Model, Janua

 $^{^2}$ Based on the following from the Federal Transit Noise and Vibration I $L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)$

Project-Generated Construction Source Noise Prediction Model



60645875 - CDFA Turlock Lab

				Reference Emission	
	Distance to Nearest	Combined Predicted		Noise Levels (L _{max}) at 50	Usage
Location	Receiver in feet	Noise Level (L _{eq} dBA)	Assumptions:	feet ¹	Factor ¹
Threshold*	598	60	Paver	85	0.5
	50	87	Concrete Mixer Truck	85	0.4
			Man Lift	85	0.2
			Compactor (ground)	80	0.2
			Concrete Mixer Truck	85	0.4

Ground Type	Soft
Ground Factor	0.50

Predicted Noise Level ²	L _{eq} dBA at 50 feet ²		
Paver	82.0		
Concrete Mixer Truck	81.0		
Man Lift	78.0		
Compactor (ground)	73.0		
Concrete Mixer Truck	81.0		

Combined Predicted Noise Level (L_{eq} dBA at 50 feet)

86.9

Sources

Where: E.L. = Emission Level;

U.F.= Usage Factor;

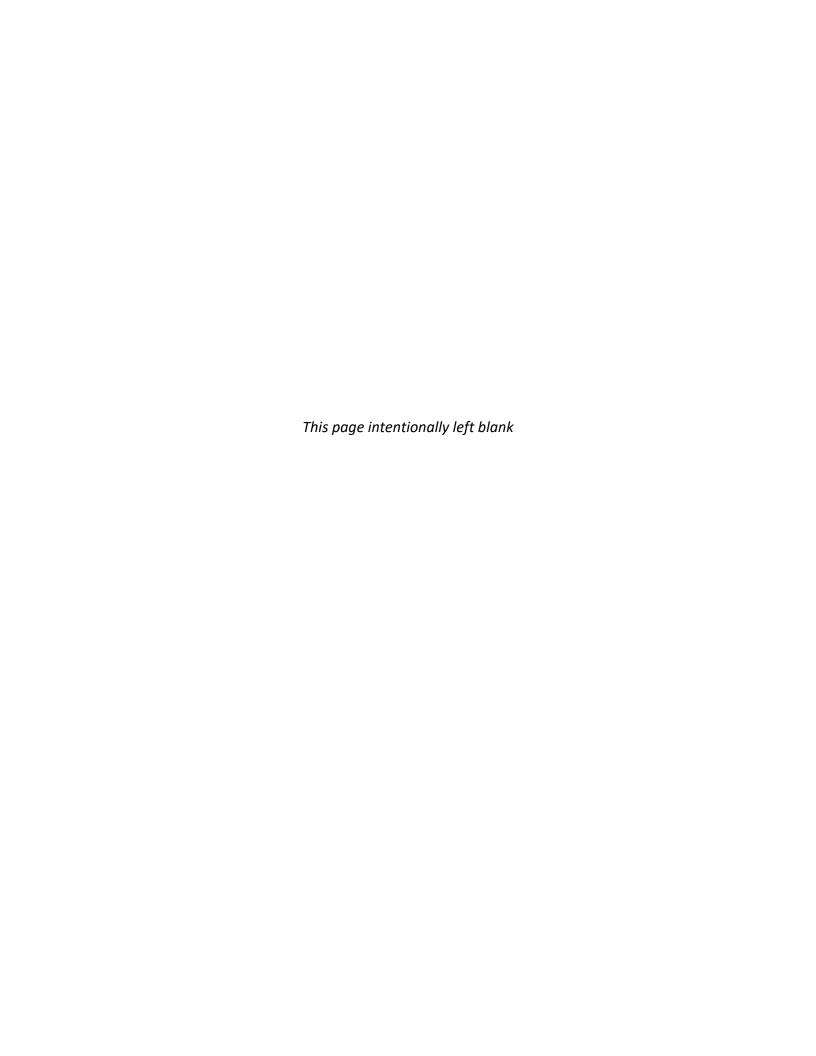
G = Constant that accounts for topography and ground effects; and

D = Distance from source to receiver.

*Project specific threshold

¹ Obtained from the FHWA Roadway Construction Noise Model, Janua

 $^{^2}$ Based on the following from the Federal Transit Noise and Vibration I $L_{eq}(equip) = E.L.+10*log (U.F.) - 20*log (D/50) - 10*G*log (D/50)$



Appendix C
NATIVE AMERICAN CORRESPONDENCE

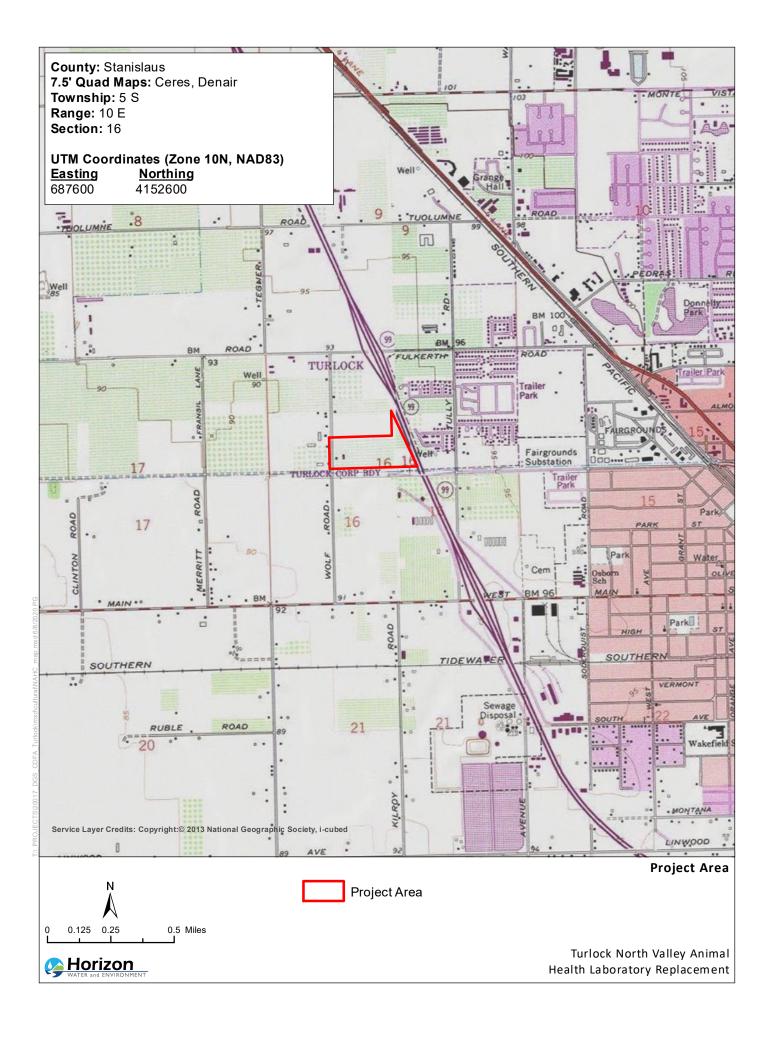
Local Government Tribal Consultation List Request

Native American Heritage Commission 1550 Harbor Blvd, Suite 100

1550 Harbor Blvd, Suite 100 West Sacramento, CA 95691 916-373-3710 916-373-5471 – Fax nahc@nahc.ca.gov

Type	of]	List	Req	uested
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CEQA Tribal Consultation List (AB 52) – Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2
General Plan (SB 18) - Per Government Code § 65352.3. Local Action Type: General Plan General Plan Element General Plan Amendment Specific Plan Specific Plan Amendment Pre-planning Outreach Activity
Required Information
Project Title: Turlock North Valley Animal Health Laboratory Replacement Project
Local Government/Lead Agency: Department of General Services
Contact Person: Dakota Smith, Sr. Environmental Planner
Street Address: 707 Third Street, Suite 4-430
City: West Sacramento, CA Zip: 95605
Phone: (916) 376-1609 Fax:
Email: Dakota.Smith@dgs.ca.gov
Specific Area Subject to Proposed Action
County: Stanislaus City/Community: Turlock
Project Description:
The Department of General Services is assisting the California Department of Food and Agri culture with a project to build a new animal health laboratory in Turlock, Stanislaus County to replace the aging existing facility in Turlock.
Additional Request
Sacred Lands File Search - Required Information:
USGS Quadrangle Name(s): Denair, Ceres
Township: 5S Range: 10E Section(s): 16





CHAIRPERSON Laura Miranda Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

Secretary **Merri Lopez-Keifer** *Luiseño*

Parliamentarian Russell Attebery Karuk

COMMISSIONER

Marshall McKay

Wintun

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Julie TumamaitStenslie
Chumash

COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

EXECUTIVE SECRETARY

Christina Snider

Pomo

NAHC HEADQUARTERS 1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

June 9, 2020

Dakota Smith
Department of General Services

Via Email to: Daakota.Smith@dgs.ca.gov

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Turlock Valley North Animal Health Laboratory Replacement Project, Stanislaus County

Dear Ms. Smith:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
- 2. The results of any archaeological inventory survey that was conducted, including:
 - Any report that may contain site forms, site significance, and suggested mitigation measures.

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

- 3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was <u>negative</u>.
- 4. Any ethnographic studies conducted for any area including all or part of the APE; and
- 5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Nancy.Gonzalez-Lopez@nahc.ca.gov.

Sincerely,

Nancy Gonzalez-Lopez
Cultural Resources Analyst

Attachment

Native American Heritage Commission Tribal Consultation List Stanislaus County 6/9/2020

North Valley Yokuts Tribe

Timothy Perez, MLD Contact

P.O. Box 717 Costanoan Linden, CA, 95236 Northern Valley Phone: (209) 662 - 2788 Yokut huskanam@gmail.com

North Valley Yokuts Tribe

Katherine Perez, Chairperson

P.O. Box 717 Costanoan Linden, CA, 95236 Northern Valley Phone: (209) 887 - 3415 Yokut canutes@verizon.net

Miwok

Southern Sierra Miwuk Nation

William Leonard, Chairperson

P.O. Box 186 Mariposa, CA, 95338

Northern Valley Phone: (209) 628 - 8603 Yokut Paiute

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Turlock Valley North Animal Health Laboratory Replacement Project, Stanislaus County.

PROJ-2020-06/09/2020 03:37 PM 1 of 1



June 24, 2020

Katherine Perez, Chairperson North Valley Yokuts Tribe P.O. Box 717 Linden, CA, 95236

RE: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

Dear Honorable Chairperson Perez:

The Department of General Services (DGS), on behalf of the California Department of Food and Agriculture (CDFA), is writing to notify you of a proposed project in order to coordinate with you and request any information about tribal cultural resources that may be present or affected. It is important to note that neither DGS nor CDFA has received a request from you for notification of projects under Assembly Bill 52 (AB52).

The CDFA currently operates the North Valley Animal Health Laboratory in Turlock. The facility was constructed in 1958 and is now outdated. As a result, CDFA proposes to build a new facility on 26 acres of undeveloped land at 830 Dianne Drive in west Turlock, west of State Highway 99 (see attached map). The proposed project would involve construction of a new laboratory building of approximately 35,000 square feet and a separate office space building for CDFA employees. The project would include laboratory equipment and casework, a mechanical loft, site work, utilities, walkways, curbs, gutters, signage, landscaping, irrigation, fencing, gates, trash enclosure, storage outbuilding, animal holding pens, site drainage, site lighting, communications (fire alarm, security, telecommunications/data), water tank, septic system, water retention system, and related items.

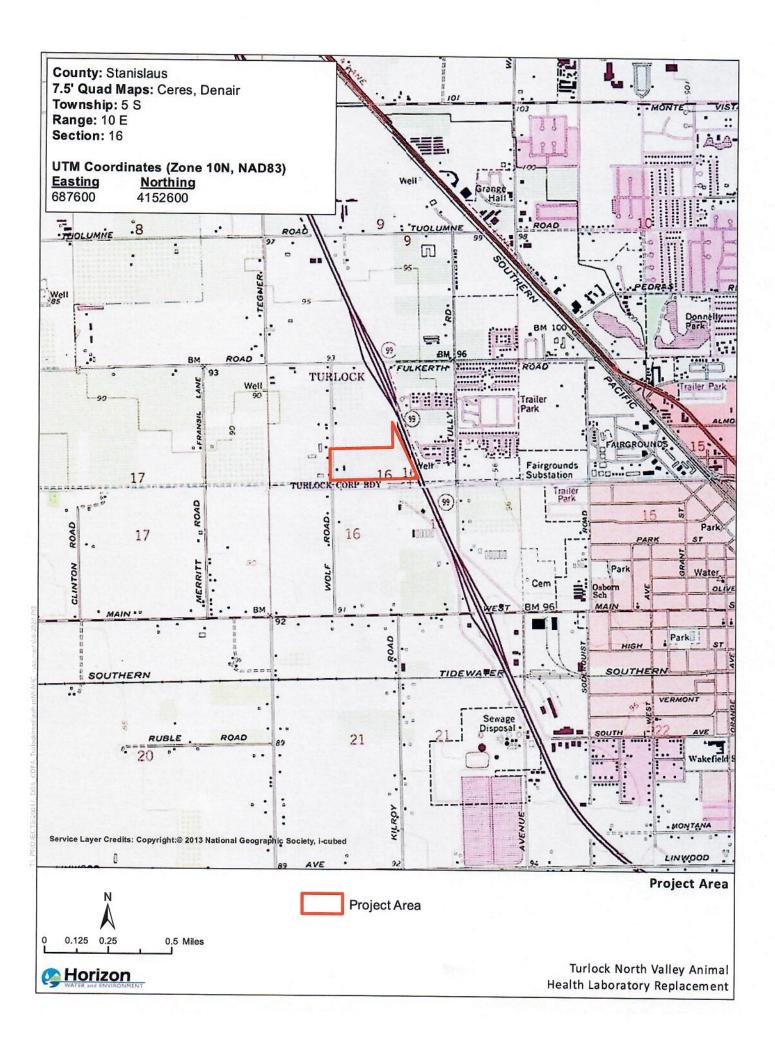
A search of the Sacred Lands Files at the Native American Heritage Commission (NAHC) did not identify previously recorded significant Native American resources in the project vicinity. However, the NAHC suggested that local tribes may have information that is not on file at the NAHC, and your contact information was provided on their List of Native American Contacts for the area as a traditionally and culturally affiliated California Native American tribal representative. We are requesting any information that you may have regarding tribal cultural resources (as defined by Public Resources Code 21074) within the project area so that this information can be incorporated into project planning and we can work with you to avoid impacts to tribal cultural resources. DGS is respectfully requesting input from you within 30 days of receipt of this letter.

Your comments and concerns are important to us and we look forward to hearing from you. If you have any questions or comments regarding the project, I can be contacted via email at Dakota.Smith@dgs.ca.gov or by phone at (916) 376-1604.

Sincerely,

Dakota Smith

Dakota Smith Senior Environmental Planner





June 24, 2020

Timothy Perez, MLD Contact North Valley Yokuts Tribe P.O. Box 717 Linden, CA, 95236

RE: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

Dear Mr. Perez:

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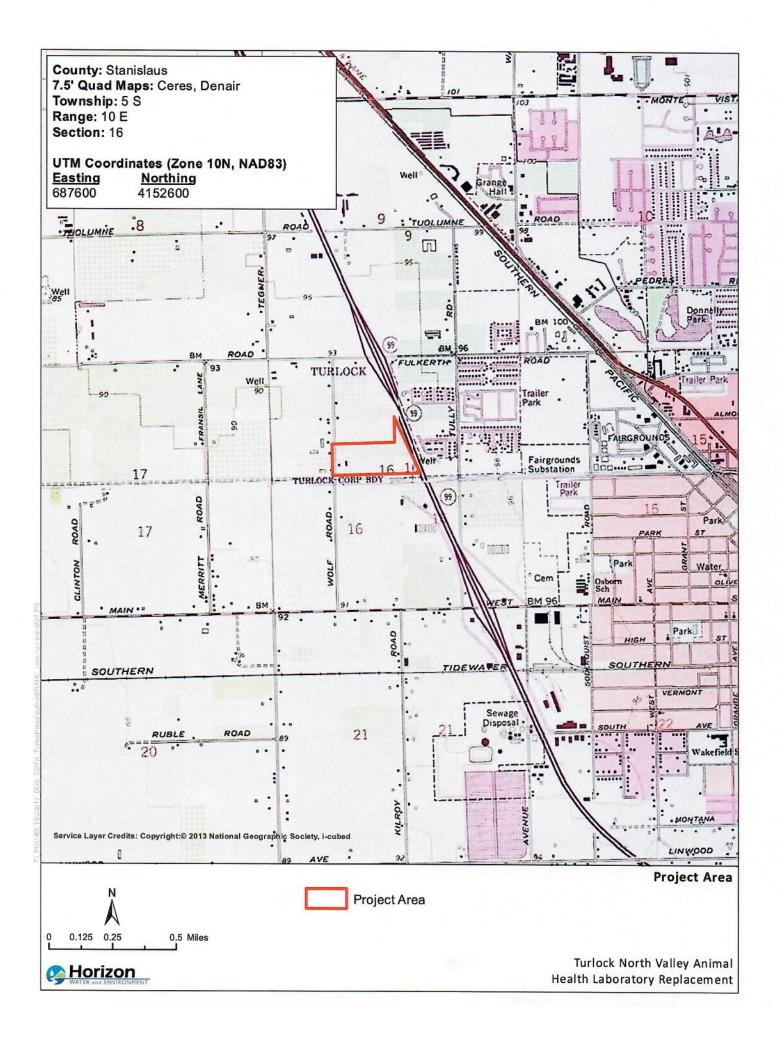
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Sincerely,

Dakota Smith

Dakota Smith Senior Environmental Planner







June 24, 2020

William Leonard, Chairperson Southern Sierra Miwuk Nation P.O. Box 186 Mariposa, CA, 95338

RE: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

Dear Honorable Chairperson Leonard:

The Department of General Services (DGS), on behalf of the California Department of Food and Agriculture (CDFA), is writing to notify you of a proposed project in order to coordinate with you and request any information about tribal cultural resources that may be present or affected. It is important to note that neither DGS nor CDFA has received a request from you for notification of projects under Assembly Bill 52 (AB52).

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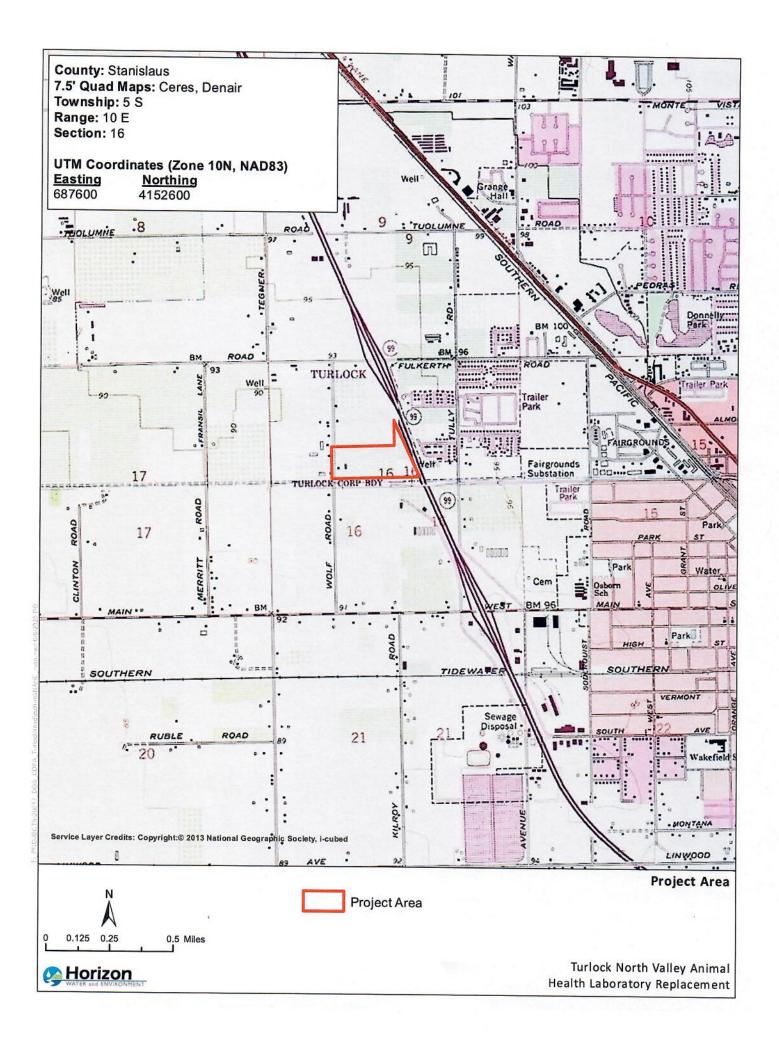
A search of the Sacred Lands Files at the Native American Heritage Commission (NAHC) did not identify previously recorded significant Native American resources in the project vicinity. However, the NAHC suggested that local tribes may have information that is not on file at the NAHC, and your contact information was provided on their List of Native American Contacts for the area as a traditionally and culturally affiliated California Native American tribal representative. We are requesting any information that you may have regarding tribal cultural resources (as defined by Public Resources Code 21074) within the project area so that this information can be incorporated into project planning and we can work with you to avoid impacts to tribal cultural resources. DGS is respectfully requesting input from you within 30 days of receipt of this letter.

Your comments and concerns are important to us and we look forward to hearing from you. If you have any questions or comments regarding the project, I can be contacted via email at Dakota.Smith@dgs.ca.gov or by phone at (916) 376-1604.

Sincerely,

Dakota Smith

Dakota Smith Senior Environmental Planner



 From:
 Janis Offermann

 To:
 "canutes@verizon.net"

Cc: "Smith, Dakota@DGS"; Tom Engels (tom@horizonh2o.com)

Subject: RE: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

Date: Friday, July 24, 2020 3:32:00 PM
Attachments: KPerez_ AB52 letters_06242020.pdf

Dear Chairperson Perez,

On behalf of the California Department of General Services, I am following up with you to make sure that you received the attached letter through the U.S. mail, in case you would like to request consultation on this project under AB52.

Please feel free to contact me if you have any questions about the project. Thank you for your time.

Janis Offermann Cultural Resources Practice Leader Horizon Water and Environment 400 Capitol Mall, Suite 2500 Sacramento, CA 95814 530.220.4918 – mobile From: <u>Janis Offermann</u>

To: <u>"achuchumimt@yahoo.com"</u>

Cc: "Smith, Dakota@DGS"; Tom Engels (tom@horizonh2o.com)

Subject: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

 Date:
 Friday, July 24, 2020 3:34:00 PM

 Attachments:
 WLeonard_ AB52 letters_06242020.pdf

Dear Chairperson Leonard,

On behalf of the California Department of General Services, I am following up with you to make sure that you received the attached letter through the U.S. mail, in case you would like to request consultation on this project under AB52.

Please feel free to contact me if you have any questions about the project. Thank you for your time.

Janís Offermann Cultural Resources Practice Leader Horizon Water and Environment 400 Capitol Mall, Suite 2500 Sacramento, CA 95814 530.220.4918 – mobile From: <u>Janis Offermann</u>
To: <u>"huskanam@gmail.com"</u>

Subject: CDFA Turlock North Valley Animal Health Laboratory Replacement Project

 Date:
 Friday, July 24, 2020 3:31:00 PM

 Attachments:
 TPerez_ AB52 letters_06242020.pdf

Dear Mr. Perez

On behalf of the California Department of General Services, I am following up with you to make sure that you received the attached letter through the U.S. mail, in case you would like to request consultation on this project under AB52.

Please feel free to contact me if you have any questions about the project. Thank you for your time.

Janís Offermann Cultural Resources Practice Leader Horizon Water and Environment 400 Capitol Mall, Suite 2500 Sacramento, CA 95814 530.220.4918 – mobile