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## Biological Resources

**Forest Ecosystem Management, PLLC**  
**PO Box 455 \* Potomac, MT 59823**  
**(406) 490-7427 \* cptown@blackfoot.net**

April 21, 2017

Guadalupe S. Chavarria, PE, QSD/QSP  
PO Box 1782  
Windsor, CA 95492  
gschavarria1@yahoo.com

RE: Del Dotto Winery Distribution Facility  
Section 1 T4N, R4W, MDB&M - Napa County

Mr. Chavarria,

Per your request, I have completed surveys for Swainson's Hawks for the Del Dotto Winery Distribution Facility off Devlin Road in Napa, CA. Swainson's Hawks were identified during three of the surveys; however, no nest sites were identified and the Swainson's Hawks appeared to stay on the east side of Highway 12/29. The trees within or immediately adjacent to the Project Area did not contain any raptor nests and are probably too small to support a large stick nest structure. Historically (2007 & 2012), there was a Swainson's Hawk nest to the north of the Project Area, within the Eucalyptus trees between Highway 12/29 and Devlin Road. No active nest structure was located this year.

Other species identified were recorded, with no listed or sensitive wildlife species identified within the Project Area.

If you have any questions, feel free to contact me.

Sincerely,

**Pamela J. Town**

Pamela J. Town  
Consulting Wildlife Biologist

## **Surveys for Swainson's Hawks – Del Dotto Winery Distribution Facility**

Section 1, T04N, R04W MDB&M - Napa County

April 21, 2017

### **Project Description:**

The project proposes converting a small open commercial lot (Parcel #057250006000) to a two story building with a parking lot. The Project Area is located between Devlin Road and State Highway 29 north of Middleton, CA in Napa County. The project site is on flat ground located around 60 feet in elevation and is just over 3 acres. The Project Area is within the Sheehy Creek local drainage, within the Napa River watershed. The legal description is Section 1 of T04N, R04W; MDB&M.

The Project is proposing:

- Build a 2 story building to be used as office space, warehouse, and storage.
- Construct a parking lot to hold 70 stalls.

Swainson's hawks are uncommon breeding residents and migrants in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and the Mojave Desert; with very limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, and Antelope Valley (CWHR). This species has recently colonized Napa County and has established breeding sites in the southern portion of the Napa Valley in areas where habitat conditions are similar to the breeding sites in Central Valley.

### **Site Description:**

The Project Area is located between Devlin Road and State Highway 29 north of the Highway 29 and Highway 12 intersection (Attachment #1). The Project Area is a commercial lot with commercial buildings/parking lots on adjacent parcels. Surrounding the Project Area are commercial properties, both existing and commercial lots for sale. Highway 29 is an extensively used route between Napa Valley and the San Francisco Area. Traffic during the surveys was moderate to heavy with cars, trucks, and RVs. The Project Area is currently vegetated with grasses and weeds.

### **Swainson's Hawk:**

The Swainson's hawk is a state-listed threatened species, protected pursuant to the California Endangered Species Act (CESA), and Title 14 of the California Code of Regulations. It is also protected from a direct take under the federal Migratory Bird Treaty Act; with the bird, nest,

eggs, and young also protected under California Fish and Game Code (Sections 3503, 3503.5, and 3513).

Swainson's hawks are a migratory species breeding in the western United States and Canada, and are adapted to forage in open areas (i.e. grasslands, agricultural fields). Swainson's hawks often nest within riparian areas; however, will also use lone trees in agricultural fields, pastures, or along roadsides. The primary management issues facing Swainson's hawks in California include the loss of preferred nesting habitat, loss or adverse modification of high-quality foraging habitat, and high mortality due to pesticide use on migration routes and wintering areas.

Nests are on a platform of sticks, bark, and vegetation in a tree, tall bush, or utility pole. In the Central Valley of California, the majority of Swainson's hawk nests and territories are associated with riparian systems and nests are commonly found in cottonwoods (*Populus species*), willows (*Salix species*), and oaks (*Quercus species*). Throughout the range of Swainson's hawks, nests may be constructed in a wide variety of tree species including sycamores (*Platanus species*), valley oaks (*Quercus lobate*), walnut (*Juglans species*), eucalyptus (*eucalyptus species*), black locust (*Robinia pseudoacacie*), Osage orange (*Maclura pomifera*), pines (*Pinus species*), and redwoods (*Sequoia sempervirens*); existing as riparian forest, remnant riparian trees, planted windbreaks, shade trees at residences, along roadsides, or within solitary upland oaks. Generally nests are semi-exposed in the upper canopy or lateral branches of a tall tree affording a panoramic view of the area.

Swainson's hawk diet consists of rodents (primarily Microtines and pocket gophers), rabbits, large arthropods, amphibians, reptiles, birds, and rarely fish. Foraging habitat includes open habitats with short vegetation containing small mammals, reptiles, birds, and insects. Some examples of foraging habitat includes: grasslands, alfalfa fields, fallow fields, agricultural fields (beets, tomatoes and other low-growing row or field crops), pasture, and rice land when not flooded. Agricultural areas may be the preferred foraging habitat due to higher prey populations as well as agricultural practices allowing greater access to prey. Vineyards, cotton fields, and mature orchards are generally not thought to provide foraging habitat for Swainson's hawks; however, they have been found successfully nesting in areas of Napa Valley dominated by dense vineyard development (Napa River Watershed Restoration 2013).

Swainson's hawk occupies large home ranges that are primarily composed of foraging habitats. The amount and intensity of land uses within a home range are the primary factors determining habitat quality (primarily a function of prey abundance/availability) for a given territory. In the Central Valley, most home ranges consist of agricultural crops, and often have insignificant areas of nesting trees. The amount and distribution of different crop types and the small mammal populations associated with them, creates a shifting mosaic of foraging habitat in the Central Valley landscape.

Predation does not appear to be an influential factor affecting Swainson's hawk populations. Great Horned Owls are the most commonly reported predator of nestlings and an occasional

adult hawk. Other predators may include coyotes, Golden Eagles, and bobcats. Swainson's hawks often exhibit highly aggressive nest defense and are able to drive off most diurnal predation attempts by other raptors. Swainson's hawks may use the same nest over several years; however, as they are a migratory species, they may find their nest already occupied by another raptor (i.e. Red-tailed hawk, red-shoulder hawk, or great horned owl) when they arrive. Competition for nest sites may be an indicator of limited suitable nesting habitat.

## Methodology:

The CNDDDB identified 5 recorded occurrences of Swainson's hawk within a 5-mile radius of the Project Site. The Napa Vault Storage Facility listed an additional occurrence along Suscol Creek. It is believed this occurrence includes Swainson's hawk nests found in 2005 and 2012 (cnddb occurrence number 1619). A nest site is considered to be active if it was used at least once during the past 5 years. Of the 6 recorded occurrences, 3 had activity reported within the past 5 years (2012 – 2016); however, only 1 recorded occurrence is within ½ mile of the Proposed Project (cnddb occurrence number 1719).

### **Swainson's Hawk Survey Design:**

Using recommendation by the Swainson's Hawk Technical Advisory Committee (2000), we proposed under the November 16, 2016 Assessment for Swainson's Hawks for the Del Dotto Winery Distribution Facility to survey the Project Area using the following design:

1. A ½ - mile radius around the Project Area would be surveyed.
2. Driving or windshield surveys would be used when available.
3. One survey date will be completed between January 1 and March 20 to look for existing nests, before the trees have leafed out. At that time, the known 2012 nest site within ½ mile of the project area would be looked for to determine if still present.
4. Surveys would be completed for at least the two survey periods immediately prior to initiating any Project-related construction work. With anticipated operations to begin in mid-April:
  - a. Three surveys will be completed between March 20 to April 5 during sunrise to 1000 hrs. and 1600 hrs. to sunset.
  - b. Three surveys will be completed between April 5 to April 20 during sunrise to 1200 hrs. and 1630 hrs. to sunset.

## Results:

No Swainson's hawk nesting habitat occurs within the Project Area (no trees large enough to support a large stick nest), with the closest known nesting habitat consisting of a stand of Eucalyptus trees located approximately 1,300' north of the Proposed Project. The foraging habitat on the site is limited due to the less-than-optimal conditions (size of lot, adjacent to

developed lots, and vegetation conditions that would not sustain rodent populations for foraging Swainson's hawks) and the availability of more optimal surrounding foraging habitat.

Del Dotto Winery Distribution Project – Looking at Project Site and Adjacent Trees



Del Dotto Winery Distribution Project – Trees Adjacent to Project (NOTE: In distance across Highway, there is grassland, vineyards, and patches of trees)



Del Dotto Winery Distribution Project – Eucalyptus Trees where Historic SWHA was located.



Landscape on the East side of Highway 12/29. Picture looking across Highway 12 and Devlin Road near the eucalyptus trees.



**Survey Dates:**

Survey Dates for the Del Dotto Winery Distribution Facility

| <b>Date</b> | <b>Weather Conditions</b>              | <b>Sunrise &amp; Sunset Times</b> | <b>Survey Times</b>                | <b>Swainson's Hawk Identified</b> |
|-------------|--|-----------------------------------|------------------------------------|-----------------------------------|
| 08MAR17     | Clear w/breeze<br>(43 – 72 F)          |                                   | Looking for existing nests         | No large nests located            |
| 23MAR17     | Clear w/breeze<br>(40 – 64 F)          | 0707 Sunrise<br>1924 Sunset       | 0710 – 1000 hrs<br>1600 – 1925 hrs | None                              |
| 28MAR17     | Clear w/breeze<br>(45 – 78 F)          | 0659 Sunrise<br>1928 Sunset       | 0655 – 1000 hrs<br>1600 – 1930 hrs | None                              |
| 03APR17     | Clear and Calm<br>(45 – 80 F)          | 0650 Sunrise<br>1934 Sunset       | 0650 – 1000 hrs<br>1600 – 1935 hrs | Soaring SWHA                      |
| 07APR17     | Cloudy w/breeze<br>(48 – 64 F)         | 0644 Sunrise<br>1938 Sunset       | 0644 – 1200 hrs<br>1630 – 1938 hrs | SWHA                              |
| 15APR17     | Clear w/breeze<br>(40 – 70 F)          | 0633 Sunrise<br>1945 Sunset       | 0633 – 1200 hrs<br>1630 – 1945 hrs | None                              |
| 20APR17     | Ptly Cloudy w/lt breeze<br>(50 – 70 F) | 0626 Sunrise<br>1950 Sunset       | 0626 – 1200 hrs<br>1630 – 1950 hrs | Soaring SWHA                      |



**Swainson's Hawk Nests Identified:** None

**Swainson's Hawks Identified:** A Swainson's Hawk was identified during three different surveys. They were never identified on the west side of Highway 29/12 nor near the Project Area or historic nest site within the eucalyptus trees (Attachment #2 for mapped location of SWHAs).

- A SWHA was identified on 03APR17 soaring over the open areas on the east side of Highway 29/12. Attempts were made to identify where the hawk may land, but each time the surveyor lost sight of the hawk prior to its landing. The SWHA was never identified on the west side of Highway 29/12 nor near the Project Area or historic nest site within the eucalyptus trees.
- A SWHA was identified on 07APR17. The hawk was observed landing within a tree where it sat for approximately 15 minutes before taking off and soaring again. The SWHA was never identified on the west side of Highway 29/12 nor near the Project Area or historic nest site within the eucalyptus trees.
- A SWHA was identified on 20APR17 soaring over the open areas on the east side of Highway 29/12. Attempts were made to identify where the hawk may land, but each time the surveyor lost sight of the hawk prior to its landing. The SWHA was never identified on the west side of Highway 29/12 nor near the Project Area or historic nest site within the eucalyptus trees.

**Other Species Identified:**

The other wildlife species identified during surveys include: Red-Winged Blackbirds, American Robin, Common Raven, Blackbirds, Turkey Vulture, Red-Tailed Hawk (pair), Swallows, Pigeons, Finch, Great-Blue Heron, Egret, and Sparrows.

**Project Effect on Swainson's Hawk Habitat:**

As there are no trees within the Project area, Swainson's hawks would not nest on the Project site. Given the extensive foraging habitat in the region, size of the Project (less than 4 acres) and low-quality foraging habitat; adverse effects to this species are considered unlikely due to this Project. When considered in terms of foraging habitat loss relative to the availability of surrounding habitats, this impact is negligible and would not significantly contribute to an overall cumulative loss of regional foraging habitat loss.

The Project Area does intend on landscaping, including the planting of trees and shrubs along the edge of the lot. Although this will not improve the foraging habitat, eventually as the trees mature, they provide future nest or roost trees for Swainson's hawks and other wildlife species.

## **Conclusion:**

In summary, the range of the Swainson's hawk to access foraging habitat is extensive in this area; therefore, the loss of the small amount (less than 4 acres) of non-native grasses/weeds on the project site is less than significant. Due to the lack of trees on the Project Site, nesting habitat will not be affected. The lot adjacent to the Project does have small trees along the lot edges, however, due to their existing size it is unlikely Swainson's hawks will establish a nest within these trees in the near future.

No Swainson's Hawks were identified nesting within the Eucalyptus trees to the north of the Project Area in a small grove they have historically nested. No nesting structures were identified on poles or other trees in the area immediately surrounding the Del Dotto Winery Distribution Facility Project.

Due to a lack of active nests and poor foraging quality of the Project Area, it is unlikely that there would be a net adverse effect on Swainson's Hawks due to this Proposed Project.

## References Used:

California Natural Diversity Database. 2016. Managed by California Department of Fish & Wildlife.

California Partners in Flight Riparian Bird Conservation Plan. Swainson's Hawk. Prepared by Brian Woodbridge @ USFWS on Klamath National Forest.  
[http://www.prbo.org/calpif/htmldocs/species/riparian/swainsons\\_hawk.htm](http://www.prbo.org/calpif/htmldocs/species/riparian/swainsons_hawk.htm)

California Wildlife Habitat Relationships System. 2016. Managed by California Department of Fish & Wildlife, California Interagency Wildlife Task Group. Filtered by Species of Interest.

Fisher, Kevin; Mary Anne Flett, Seth Bunnell, and Jules Evens. 2013. Swainson's Hawk (*Buteo swainsoni*) Expands its Breeding Territory in the Napa Valley. 2013 State of San Francisco Estuary Conference.

Hensel, Human. 2006. Birds of Napa County. Hayday Books, Berkely, CA.

Napa Vault Storage Facility Use Permit. September 20, 2016. Report completed by First Carbon Solutions on Napa Vault Swainson's Hawk Focused Assessment, Napa County, California.

Peterson, Roger Tory. 2010. Peterson Field Guide to Birds of Western North America. Fourth Edition. The Marital Trust B u/w Roger Tory Peterson. Printed in China. 493 pages.

State of California. June 2, 2010. Swainson's Hawk Survey Protocols, Impact Avoidance, and Minimization Measures for Renewable Energy Projects in the Antelope Valley of Los Angeles

and Kern Counties, California. State of California – California Energy Commission and Department of Fish & Game.

Swainson's Hawk Technical Advisory Committee. May 31, 2000. Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley.

Wildlife Society – California North Coast Chapter. October 24 – 26, 2000. Falconiformes of Northern California: Natural History and Management.

Attachments:

Attachment #1 – Topographical Map of Project Area

Attachment #2 – Location of SWHA identified during Surveys

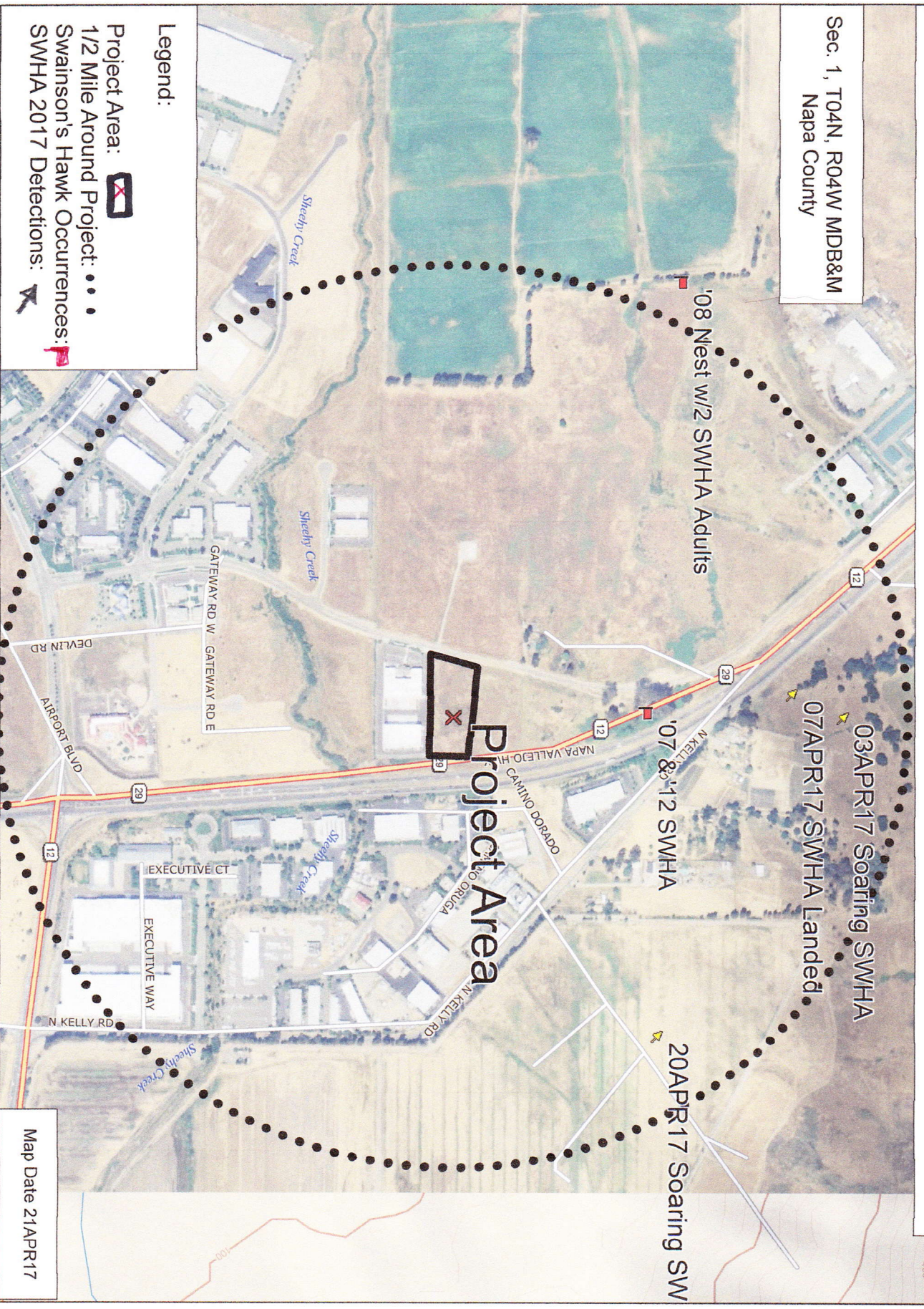
Questions or Comments from this Biological Assessment should be addressed to:

Forest Ecosystem Management, PLLC  
Pamela Town, Consulting Wildlife Biologist  
PO Box 455  
Potomac, MT 59823  
(406) 490-7427  
cptown@blackfoot.net



# Swainson's Hawk Occurrences for Del Dotto Distribution Facility Project

Sec. 1, T04N, R04W MDB&M  
Napa County



**Legend:**

- Project Area:
- 1/2 Mile Around Project:
- Swainson's Hawk Occurrences:
- SWHA 2017 Detections:

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Scale 1 : 9 600

1" = 800.0 ft

Map Date 21APR17

**Forest Ecosystem Management, PLLC**  
**PO Box 455 \* Potomac, MT 59823**  
**(406) 490-7427 \* cptown@blackfoot.net**

March 18, 2016

Guadalupe S. Chavarria, PE, QSD/QSP  
PO Box 1782  
Windsor, CA 95492  
gschavarria1@yahoo.com

RE: Devlin Road Project – Del Dotto Winery Distribution Facility  
Section 1 T4N, R4W, MDB&M - Napa County

Mr. Chavarria,

Per your request, I have completed an assessment for Ferruginous Hawk's for the Devlin Road Project in Napa, CA. I have worked on other projects in Napa County where northern spotted owls had to be addressed, so I have included them within this report so as not to potentially delay your project.

There are no listed species on or immediately adjacent to this project. Due to the commercial nature of the area, many wildlife species, particularly listed species, would not be attracted to the area. If you are interested in attracting common species (i.e. robins, jays, sparrows, blackbirds); I would encourage the planting of native small trees and shrubs as landscaping around the newly constructed building/parking lot. A local nursery or landscaper could help you select appropriate species.

If you have any other questions, feel free to contact me.

Sincerely,



Pamela J. Town  
Consulting Wildlife Biologist

**RECEIVED**  
MAY 09 2016  
Napa County Planning, Building  
& Environmental Services

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### **Del Dotto Winery Distribution facility**

March 18, 2016

#### Project Description:

The project proposes converting a small open commercial lot (Parcel #057-250-006) to a two story building with a parking lot. Guadalupe S. Chavarria requested a Biological Review of the project site, with a primary interest in Ferruginous Hawk habitat. In addition, I reviewed California Department of Fish & Wildlife's Northern Spotted Owl Database and California Natural Diversity Database (CNDDDB), and addressed listed species within ½ mile of the Project Area.

The Project Area is located between Devlin Road and State Highway 29 north of Middleton, CA in Napa County. The project site is on flat ground located around 60 feet in elevation. The project area is within the Sheehy Creek local drainage, within the Napa River watershed. The legal description is Section 1 of T04N, R04W; MDB&M.

The Project is proposing:

- Build a 2 story building to be used as office space, warehouse, and storage.
- Construct a parking lot to hold 70 stalls.

The purpose of this report is to identify habitat on and immediately adjacent to the Project Area, determine if there is a need for additional protocol-level wildlife surveys, determine the presence of or potential for special-status species, and the effects of the proposed project on any on-site biological resources.

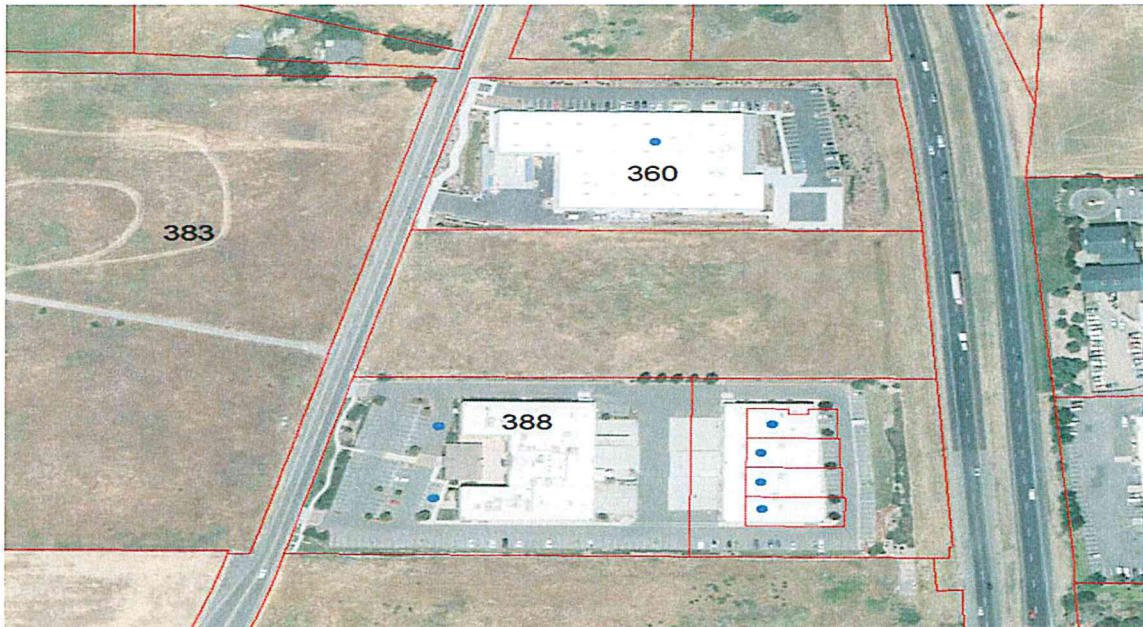
#### Site Description:

The Project Area is located between Devlin Road and State Highway 29 north of the Highway 29 and Highway 12 intersection (Attachment #1). The Project Area is a commercial lot with commercial buildings/parking lots on adjacent parcels. Surrounding the Project Area are commercial properties, both existing and commercial lots for sale. Highway 29 is an extensively used route between Napa Valley and the San Francisco Area. Traffic during the site visit was heavy with cars, trucks, and RVs. The Project Area is currently vegetated with grasses and weeds.

**Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca**

**Del Dotto Winery Distribution facility**

Picture of Project Area – Commercial lot consisting of grasses and weeds.





## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### **Del Dotto Winery Distribution facility**

Due to the commercial nature and amount of traffic, the Project Area is highly undesirable for many wildlife species, particularly for species with unique habitat requirements (as many listed species have).

On the landscape level, there are commercial and residential properties and towns, the Napa County Airport, agricultural property (vineyards and cattle ranches), the Napa River, and some open grassland (Attachment #2). The landscape to the north, near the Napa River, does provide more suitable habitat for many wildlife species due to water source, grasslands, and cattle ranches.

Picture is north of Project Area – Looking at the Napa River



### Threatened, Endangered, Proposed or Candidate Species within the Project Area:

The present conditions and location of the Project Area is such that there is little reason to expect the occurrence of any special-status species within the footprint of the project. Our review found that no special status species occur within or immediately adjacent to the Project Area.

The only special-status species' habitat that could possibly be impacted by the proposed project would be the Burrowing Owl habitat. The habitat within the Project Area is very marginal and the area impacted by the proposed project is such that there is little reason to expect any long term impacts to the species or population.

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### Del Dotto Winery Distribution facility

#### Methodology:

##### **Project Scoping:**

The scoping of the project considered location, type of habitat and/or vegetation types present on and surrounding the Project Area. Only Federal and State listed species are addressed.

Information on target species was gathered from the following sources:

- Spotted Owl Database. Report Generation Date: 15MAR16. Filtered by the criteria of 1.3 Miles around Project Area (Attachment #3).
- California Natural Diversity Database. California Department of Fish & Wildlife. Filtered by the criteria of Cuttings Wharf and Cordelia USGS Quads (Attachment #4).

##### **Field Survey Methodology:**

Surveys were made by walking around the Project Area and examining the surrounding area. The fieldwork focused on locating target species or suitable habitat for target species or indications that such habitat exists on the site. Habitat is a key characteristic for consideration of special-status species in a study area. Many special-status species are rare in nature because of their specific, often narrow habitat or environmental requirement.

Animals were identified in the field by sight, sign, or call. The area was surveyed with binoculars and walking through the project footprint.

##### **Survey Date:**

Field work was conducted by Forest Ecosystem Management, PLLC on March 5, 2016 and March 17, 2016.

##### **Qualifications of Investigator:**

###### ***Pamela J. Town, Consulting Wildlife Biologist – Forest Ecosystem Management, PLLC.***

University of Vermont – BS in Wildlife Management and University of Idaho – MS in Forest Resources. Pam has over 15 years of professional experience working as a Consulting Wildlife Biologist assessing projects for Federal and California State listed and sensitive species and has worked with private landowners on improving wildlife habitat in Montana and Idaho.

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### **Del Dotto Winery Distribution facility**

Experience includes conducting special-status species surveys, general biological surveys, determination of species habitat, offering wildlife habitat improvement options, and determining mitigation measures, in consultation with state and federal agencies, acceptable for habitat alteration for listed and sensitive species.

### Analysis of Special-Status Species:

The species listed below provides a summary for potential "target" special-status species.

#### **Ferruginous Hawks (FEHA)**

According to the County of Napa and the CNDDDB, the Project Area is located within Ferruginous Hawk habitat. The Ferruginous Hawk is listed under the Watch List (WL) by California Department of Fish & Wildlife. The Ferruginous Hawk is a fairly common winter resident of grasslands and agricultural areas in southwestern California. Migration includes generally arriving in California in September and departing by mid-April.

Winter habitat requirements for Ferruginous Hawks includes large, open tracts of grasslands, sparse shrub, or desert habitats with elevated structures for perching (i.e.: telephone poles, high mound perch, or lone tree). They will eat rabbits, ground squirrels, mice, birds, reptiles, and amphibians.

The state of California reports urban development may contribute to loss of suitable wintering habitat in California. There are no breeding records from California.

**Devlin Project Area:** The Devlin Project Area is a small lot located within an existing commercial area next to a busy state highway, therefore, does not provide suitable winter habitat for the Ferruginous Hawk. Suitable winter habitat does exist further north around the Napa River; however, this project will have no significant impact on that habitat.

#### **Burrowing Owl (BUOW)**

According to the CNDDDB, the Project Area is located within ½ mile of a presumed extant Burrowing Owl site. The Burrowing Owl is listed as Species of Special Concern (SSC) under the California Department of Fish & Wildlife. The Burrowing Owl is a year-round resident of California, with seasonal elevational migrations in some areas. Breeding generally occurs in March through August.

The Burrowing Owl is primarily a grassland species, but can persist in some landscapes highly altered by humans. Suitable habitat appears to be burrows for roosting and nesting with

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### **Del Dotto Winery Distribution facility**

relatively short vegetation with only sparse shrubs and taller vegetation. Owls in agricultural environments nest along roadsides and water conveyance structures (ditches, drains) surrounded by crops. The nest and roost burrows of the Burrowing Owl are most commonly dug by ground squirrels, but they may use badger, coyote, and fox dens. The diet of Burrowing Owls is bugs, rodents, birds, amphibians, reptiles, and carrion. Burrowing Owls appear to show strong site fidelity to their nest site year to year (nest in same area).

The state of California reports habitat loss and degradation from rapid urbanization of farmland, changes in agricultural practices, and eradication of ground squirrels as threats to Burrowing Owls.

**Devlin Project Area:** The Devlin Project Area is located on a small lot within an existing commercial area, buildings on adjacent lots; next to a busy highway. Increased commercial construction in the area poses a substantial risk to Burrowing Owls from mortality caused by traffic, although owls are known to forage along roads. The site indicated within the CNDDDB is located to the west of the Project Area (to the west of Devlin Road). No Burrowing Owls, probable nest sites, or ground squirrels were observed during the field visit.

### **Swainson's Hawk (SWHA)**

According to the CNDDDB, the Project Area is located within ½ mile of a Swainson's Hawk site. The Swainson's Hawk is listed as a State Threatened Species. The Swainson's Hawk is an uncommon breeding resident and migrant of California. Breeding generally occurs in late March through July.

The basic requirements for Swainson's Hawks are open desert, grassland, or cropland containing scattered, large trees or small groves. Nests are usually on a platform of sticks, bark, and leaves in a tree, bush, or on a power pole. Often nests are located in open riparian habitat or sparsely vegetated flatlands. Swainson's Hawks eat rodents, bats, squirrels, rabbits, bugs, amphibians, reptiles, birds, and occasionally fish.

The state of California reports loss of nesting habitat as a threat to this species.

**Devlin Project Area:** The Devlin Project Area is located on a small lot within an existing commercial area next to a busy state highway with no potential nest sites available, therefore, does not provide suitable habitat for the Swainson's Hawk.

### **Northern Spotted Owl (NSO)**

According to the NSO Database, there are no known Northern Spotted Owls within 1.3 miles of the Project Area. The 1.3 mile assessment area was created by USFWS for a Take Avoidance of

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### **Del Dotto Winery Distribution facility**

northern spotted owls within the California Interior (outside the redwood zone). Although Napa County does have redwoods, the environmental conditions in the area are hotter/drier than the coastal redwood zone; therefore, the 1.3 mile assessment area was used for this Project.

The attributes for northern spotted owl habitat includes a forest with a dense, multi-layered canopy of several trees species; trees of varying sizes and ages; abundant logs, snags/cavity trees, and trees with broken tops or platform-like substrates (i.e. broken tops, mistletoe, debris piles, or old raptor/squirrel nests); and open spaces among lower branches to allow flight under the canopy.

**Devlin Project Area:** The Devlin Project Area is not forest and located within an existing commercial area; therefore, does not provide suitable habitat for the Northern Spotted Owl.

### **Unique or Limited Wildlife Habitats Present**

There were no unique habitats associated with the proposed project. Unique habitats would include caves, mines, talus slopes, cliffs, snags, large woody debris, and water bodies.

### **Wildlife Species Identified**

Wildlife Species identified adjacent to the Project Area include:

Sparrow Species  
Brewer's Blackbirds  
American Kestrel  
Red-Winged Blackbird  
Turkey Vulture  
Song Sparrow  
Common Crow  
Egret

### Measures that will Reduce/Eliminate Adverse Impacts to Listed Species:

No listed species or raptor nest sites were observed.

## Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca

### Del Dotto Winery Distribution facility

**Burrowing Owl Habitat:** As this Project is located next to existing business structures, within very marginal habitat, and no owls were observed; as long as the proposed operations are scheduled to commence prior to March 1, 2017 then no other surveys should be required. If operations don't occur until after March 1, 2017, a qualified avian biologist should survey the site for nesting owls, prior to commencement of the activities.

**Cumulative Effect on Wildlife Populations:** No cumulative impacts to wildlife populations are expected by the proposed project. The impact to local wildlife will be undetectable on a regional scale.

This is a general assessment of listed species for the Devlin Road Project Area. This is not a complete Biological Assessment for all listed species for an EIR/EIA.

### References Used:

California Natural Diversity Database. 2016. Managed by California Department of Fish & Wildlife. Filtered by Cuttings Wharf and Cordelia USGS Quads.

California Wildlife Habitat Relationships System. 2016. Managed by California Department of Fish & Wildlife, California Interagency Wildlife Task Group. Filtered by Species of Interest.

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Shuford, W.David; Thomas Gardali. 2008. California Bird Species of Special Concern. A Ranked Assessment of Species, Subspecies, and Distinct Populations of Birds of Immediate Conservation Concern in California. Western Field Ornithologists, Camarillo, CA and California Department of Fish & Game, Sacramento, CA. 450 pages.

Spotted Owl Database. 2016. Managed by California Department of Fish & Wildlife. Filtered by Section #, Township and Range.

**Assessment for Ferruginous Hawk's -Devlin Road Project, Napa Ca**

**Del Dotto Winery Distribution facility**

**Attachments:**

Attachment #1 – Topographical Map of Project Area

Attachment #2 – Aerial Photo (Goggle Earth) of Project Area

Attachment #3 – Spotted Owl Database Report

Attachment #4 – CA Natural Diversity Database Report & Map

**Questions or Comments from this Biological Assessment should be addressed to:**

**Forest Ecosystem Management, PLLC**

**Pamela Town, Consulting Wildlife Biologist**

PO Box 455

Potomac, MT 59823

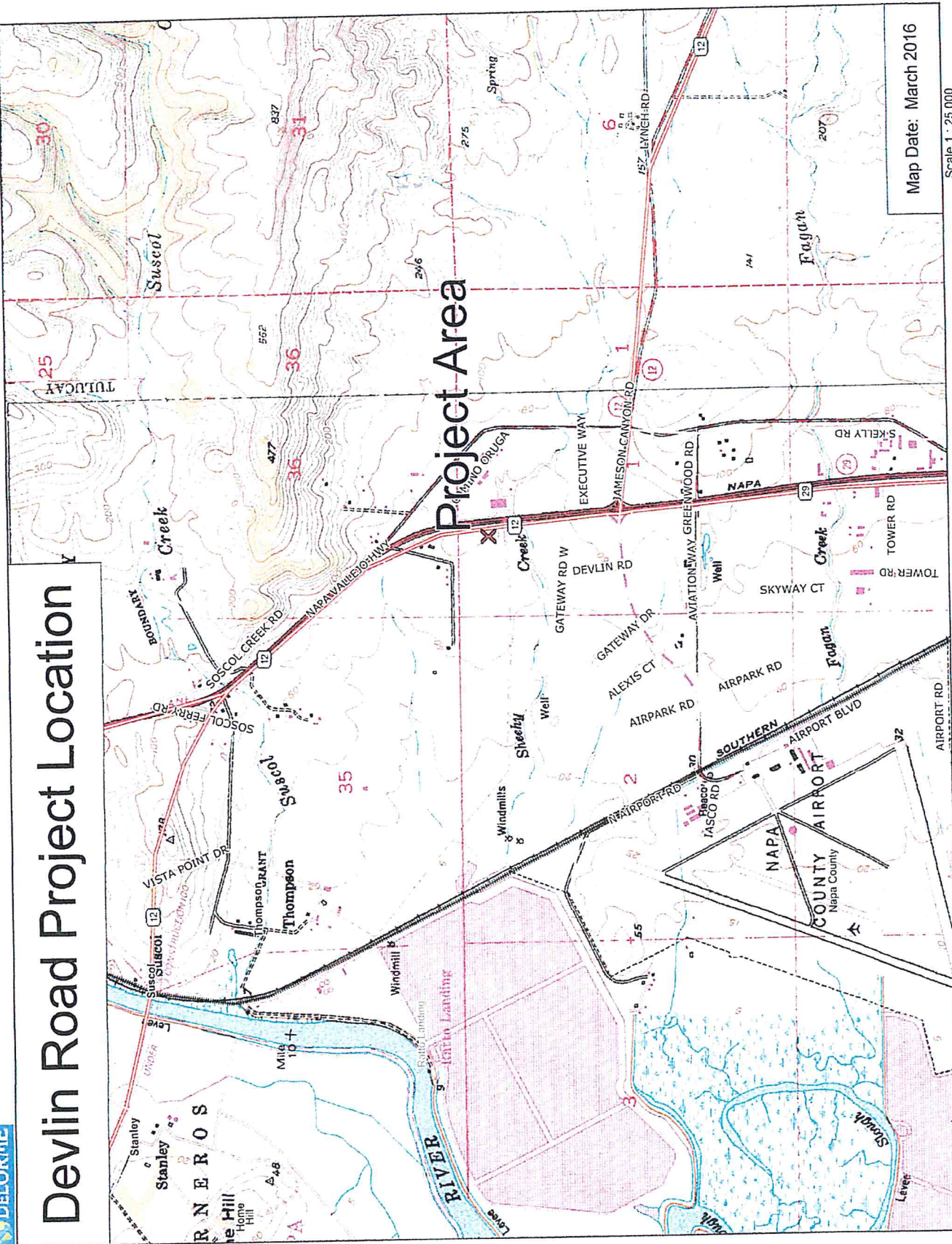
(406) 490-7427

[cptown@blackfoot.net](mailto:cptown@blackfoot.net)

Topo USA® 6.0

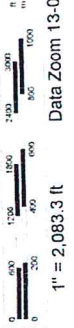


# Devlin Road Project Location



Map Date: March 2016

Scale 1" = 25,000



1" = 2,083.3 ft

Data Zoom 13-0

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Google earth



Data Version Date:  
02/29/2016  
Report Generation Date:  
3/15/2016

**Report #1 - Spotted Owl Sites Found**  
Known Spotted Owl sites having observations  
within the search area.



Meridian, Township, Range, Section (MTRS) searched:

M\_05N\_04W Sections(34,35,36);

M\_04N\_04W Sections(01,02,03,10,11,12,13,14,15);

M\_04N\_03W Sections(06,07,18);

M\_05N\_03W Sections(31);

| <i>Masterowl</i>            | <i>Subspecies</i> | <i>LatDD NAD83</i> | <i>LonDD NAD83</i> | <i>MTRS</i> | <i>AC Coordinate Source</i> |
|-----------------------------|-------------------|--------------------|--------------------|-------------|-----------------------------|
| No Spotted Owl Sites found. |                   |                    |                    |             |                             |



**CNDDDB Quad Species List** 57 records.

|                 |   |                               |            |            |            |        |   |         |                |                        |   |
|-----------------|---|-------------------------------|------------|------------|------------|--------|---|---------|----------------|------------------------|---|
| Animals - Birds | <i>Aquila chrysaetos</i>                  | golden eagle                  | ABNKC22010 | None       | None       | FP, WL | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Accipitridae - <i>Aquila chrysaetos</i>                 |
| Animals - Birds | <i>Buteo regalis</i>                      | ferruginous hawk              | ABNKC19120 | None       | None       | WL     | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Birds - Accipitridae - <i>Buteo regalis</i>                     |
| Animals - Birds | <i>Buteo swainsoni</i>                    | Swainson's hawk               | ABNKC19070 | None       | Threatened | -      | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Accipitridae - <i>Buteo swainsoni</i>                   |
| Animals - Birds | <i>Circus cyaneus</i>                     | northern harrier              | ABNKC11010 | None       | None       | SSC    | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Accipitridae - <i>Circus cyaneus</i>                    |
| Animals - Birds | <i>Elanus leucurus</i>                    | white-tailed kite             | ABNKC06010 | None       | None       | FP     | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Accipitridae - <i>Elanus leucurus</i>                   |
| Animals - Birds | <i>Ardea alba</i>                         | great egret                   | ABNGA04040 | None       | None       | -      | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Ardeidae - <i>Ardea alba</i>                            |
| Animals - Birds | <i>Ardea herodias</i>                     | great blue heron              | ABNGA04010 | None       | None       | -      | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Ardeidae - <i>Ardea herodias</i>                        |
| Animals - Birds | <i>Egretta thula</i>                      | snowy egret                   | ABNGA06030 | None       | None       | -      | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Ardeidae - <i>Egretta thula</i>                         |
| Animals - Birds | <i>Nycticorax nycticorax</i>              | black-crowned night heron     | ABNGA11010 | None       | None       | -      | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Ardeidae - <i>Nycticorax nycticorax</i>                 |
| Animals - Birds | <i>Charadrius alexandrinus nivosus</i>    | western snowy plover          | ABNNB03031 | Threatened | None       | SSC    | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Charadriidae - <i>Charadrius alexandrinus nivosus</i>   |
| Animals - Birds | <i>Charadrius montanus</i>                | mountain plover               | ABNNB03100 | None       | None       | SSC    | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Charadriidae - <i>Charadrius montanus</i>               |
| Animals - Birds | <i>Melospiza melodia samuelis</i>         | San Pablo song sparrow        | ABPBXA301W | None       | None       | SSC    | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Emberizidae - <i>Melospiza melodia samuelis</i>         |
| Animals - Birds | <i>Passerculus sandwichensis beldingi</i> | Belding's savannah sparrow    | ABPBX99015 | None       | Endangered | -      | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Emberizidae - <i>Passerculus sandwichensis beldingi</i> |
| Animals - Birds | <i>Riparia riparia</i>                    | bank swallow                  | ABPAU08010 | None       | Threatened | -      | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Birds - Hirundinidae - <i>Riparia riparia</i>                   |
| Animals - Birds | <i>Agelaius tricolor</i>                  | tricolored blackbird          | ABPBXB0020 | None       | None       | SSC    | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Birds - Icteridae - <i>Agelaius tricolor</i>                    |
| Animals - Birds | <i>Hydroprogne caspia</i>                 | Caspian tern                  | ABNNM08020 | None       | None       | -      | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Birds - Laridae - <i>Hydroprogne caspia</i>                     |
| Animals - Birds | <i>Sternula antillarum browni</i>         | California least tern         | ABNNM08103 | Endangered | Endangered | FP     | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Laridae - <i>Sternula antillarum browni</i>             |
| Animals - Birds | <i>Geothlypis trichas sinuosa</i>         | saltmarsh common yellowthroat | ABPBX1201A | None       | None       | SSC    | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Parulidae - <i>Geothlypis trichas sinuosa</i>           |
| Animals - Birds | <i>Phalacrocorax auritus</i>              | double-crested cormorant      | ABNFD01020 | None       | None       | WL     | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Birds - Phalacrocoracidae - <i>Phalacrocorax auritus</i>        |

|                       |  |  |            |            |            |     |   |         |                |                        |   |
|-----------------------|--|--|------------|------------|------------|-----|---|---------|----------------|------------------------|---|
| Animals - Birds       | <i>Laterallus jamaicensis coturniculus</i> | California black rail                                    | ABNME03041 | None       | Threatened | FP  | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Rallidae - <i>Laterallus jamaicensis coturniculus</i> |
| Animals - Birds       | <i>Rallus longirostris obsoletus</i>       | California clapper rail                                  | ABNME05016 | Endangered | Endangered | FP  | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Rallidae - <i>Rallus longirostris obsoletus</i>       |
| Animals - Birds       | <i>Athene cunicularia</i>                  | burrowing owl  | ABNSB10010 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Birds - Strigidae - <i>Athene cunicularia</i>                 |
| Animals - Crustaceans | <i>Syncaris pacifica</i>                   | California freshwater shrimp                             | ICMAL27010 | Endangered | Endangered | -   | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Crustaceans - Atyidae - <i>Syncaris pacifica</i>              |
| Animals - Crustaceans | <i>Branchinecta lynchi</i>                 | vernal pool fairy shrimp                                 | ICBRA03030 | Threatened | None       | -   | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Crustaceans - Branchinectidae - <i>Branchinecta lynchi</i>    |
| Animals - Fish        | <i>Acipenser transmontanus</i>             | white sturgeon   | AFCAA01050 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Fish - Acipenseridae - <i>Acipenser transmontanus</i>         |
| Animals - Fish        | <i>Pogonichthys macrolepidotus</i>         | Sacramento splittail                                     | AFCJB34020 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Fish - Cyprinidae - <i>Pogonichthys macrolepidotus</i>        |
| Animals - Fish        | <i>Hysterothorax traski</i>                | Sacramento-San Joaquin tule perch                        | AFCQK02012 | None       | None       | -   | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Fish - Embiotocidae - <i>Hysterothorax traski</i>             |
| Animals - Fish        | <i>Hypomesus transpacificus</i>            | Delta smelt  | AFCHB01040 | Threatened | Endangered | -   | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Fish - Osmeridae - <i>Hypomesus transpacificus</i>            |
| Animals - Fish        | <i>Spirinchus thaleichthys</i>             | longfin smelt  | AFCHB03010 | Candidate  | Threatened | SSC | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Fish - Osmeridae - <i>Spirinchus thaleichthys</i>             |
| Animals - Fish        | <i>Lampetra ayresii</i>                    | river lamprey  | AFBAA02030 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Fish - Petromyzontidae - <i>Lampetra ayresii</i>              |
| Animals - Fish        | <i>Oncorhynchus mykiss irideus</i>         | steelhead - central California coast DPS                 | AFCHA0209G | Threatened | None       | -   | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Fish - Salmonidae - <i>Oncorhynchus mykiss irideus</i>        |
| Animals - Fish        | <i>Oncorhynchus tshawytscha</i>            | chinook salmon - Central Valley fall / late fall-run ESU | AFCHA0205N | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Unprocessed            | Animals - Fish - Salmonidae - <i>Oncorhynchus tshawytscha</i>           |
| Animals - Insects     | <i>Speyeria callippe callippe</i>          | callippe silverspot butterfly                            | IILEPJ6091 | Endangered | None       | -   | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Insects - Nymphalidae - <i>Speyeria callippe callippe</i>     |
| Animals - Mammals     | <i>Reithrodontomys raviventris</i>         | salt-marsh harvest mouse                                 | AMAFF02040 | Endangered | Endangered | FP  | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Mammals - Muridae - <i>Reithrodontomys raviventris</i>        |
| Animals - Mammals     | <i>Taxidea taxus</i>                       | American badger  | AMAJF04010 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Mapped                 | Animals - Mammals - Mustelidae - <i>Taxidea taxus</i>                   |
| Animals - Mammals     | <i>Sorex ornatus sinuosus</i>              | Suisun shrew   | AMABA01103 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Mammals - Soricidae - <i>Sorex ornatus sinuosus</i>           |
| Animals - Mammals     | <i>Antrozous pallidus</i>                  | pallid bat   | AMACC10010 | None       | None       | SSC | - | 3812223 | Cuttings Wharf | Mapped and Unprocessed | Animals - Mammals - Vespertilionidae - <i>Antrozous pallidus</i>        |

|                         |   |                             |            |            |      |     |      |         |                |             |   |
|-------------------------|---|-----------------------------|------------|------------|------|-----|------|---------|----------------|-------------|---|
| Animals - Reptiles      | <i>Emys marmorata</i>                         | western pond turtle         | ARAAD02030 | None       | None | SSC | -    | 3812223 | Cuttings Wharf | Mapped      | Animals - Reptiles - Emydidae - <i>Emys marmorata</i>                             |
| Community - Terrestrial | Coastal Brackish Marsh                        | Coastal Brackish Marsh      | CTT52200CA | None       | None | -   | -    | 3812223 | Cuttings Wharf | Mapped      | Community - Terrestrial - Coastal Brackish Marsh                                  |
| Community - Terrestrial | Northern Coastal Salt Marsh                   | Northern Coastal Salt Marsh | CTT52110CA | None       | None | -   | -    | 3812223 | Cuttings Wharf | Mapped      | Community - Terrestrial - Northern Coastal Salt Marsh                             |
| Community - Terrestrial | Northern Vernal Pool                          | Northern Vernal Pool        | CTT44100CA | None       | None | -   | -    | 3812223 | Cuttings Wharf | Mapped      | Community - Terrestrial - Northern Vernal Pool                                    |
| Plants - Vascular       | <i>Lilaeopsis masonii</i>                     | Mason's lilaeopsis          | PDAP119030 | None       | Rare | -   | 1B.1 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Apiaceae - <i>Lilaeopsis masonii</i>                          |
| Plants - Vascular       | <i>Lasthenia conjugens</i>                    | Contra Costa goldfields     | PDAST5L040 | Endangered | None | -   | 1B.1 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Asteraceae - <i>Lasthenia conjugens</i>                       |
| Plants - Vascular       | <i>Symphotrichum lentum</i>                   | Suisun Marsh aster          | PDASTE8470 | None       | None | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Asteraceae - <i>Symphotrichum lentum</i>                      |
| Plants - Vascular       | <i>Downingia pusilla</i>                      | dwarf downingia             | PDCAM060C0 | None       | None | -   | 2B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Campanulaceae - <i>Downingia pusilla</i>                      |
| Plants - Vascular       | <i>Legenere limosa</i>                        | legenere                    | PDCAM0C010 | None       | None | -   | 1B.1 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Campanulaceae - <i>Legenere limosa</i>                        |
| Plants - Vascular       | <i>Extriplex joaquinana</i>                   | San Joaquin spearscale      | PDCHE041F3 | None       | None | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Chenopodiaceae - <i>Extriplex joaquinana</i>                  |
| Plants - Vascular       | <i>Carex lyngbyei</i>                         | Lyngbye's sedge             | PMCYP037Y0 | None       | None | -   | 2B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Cyperaceae - <i>Carex lyngbyei</i>                            |
| Plants - Vascular       | <i>Eleocharis parvula</i>                     | small spikerush             | PMCYP091G0 | None       | None | -   | 4.3  | 3812223 | Cuttings Wharf | Unprocessed | Plants - Vascular - Cyperaceae - <i>Eleocharis parvula</i>                        |
| Plants - Vascular       | <i>Astragalus tener</i> var. <i>tener</i>     | alkali milk-vetch           | PDFAB0F8R1 | None       | None | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Fabaceae - <i>Astragalus tener</i> var. <i>tener</i>          |
| Plants - Vascular       | <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> | Delta tule pea              | PDFAB250D2 | None       | None | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Fabaceae - <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>      |
| Plants - Vascular       | <i>Trifolium amoenum</i>                      | two-fork clover             | PDFAB40040 | Endangered | None | -   | 1B.1 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Fabaceae - <i>Trifolium amoenum</i>                           |
| Plants - Vascular       | <i>Trifolium hydrophilum</i>                  | saline clover               | PDFAB400R5 | None       | None | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Fabaceae - <i>Trifolium hydrophilum</i>                       |
| Plants - Vascular       | <i>Castilleja ambigua</i> var. <i>ambigua</i> | johnny-nip                  | PDSCR0D401 | None       | None | -   | 4.2  | 3812223 | Cuttings Wharf | Unprocessed | Plants - Vascular - Orobanchaceae - <i>Castilleja ambigua</i> var. <i>ambigua</i> |
| Plants - Vascular       | <i>Chloropyron molle</i> ssp. <i>molle</i>    | soft salty bird's-beak      | PDSCR0J0D2 | Endangered | Rare | -   | 1B.2 | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Orobanchaceae - <i>Chloropyron molle</i> ssp. <i>molle</i>    |
| Plants - Vascular       | <i>Polygonum marinense</i>                    | Marin knotweed              | PDPGN0L1C0 | None       | None | -   | 3.1  | 3812223 | Cuttings Wharf | Mapped      | Plants - Vascular - Polygonaceae - <i>Polygonum marinense</i>                     |
| Plants - Vascular       | <i>Ranunculus lobbii</i>                      | Lobb's aquatic              | PDRAN0L1J0 | None       | None | -   | 4.2  | 3812223 | Cuttings Wharf | Unprocessed | Plants - Vascular - Ranunculaceae -   |

buttercup

CNDDB Quad Species List 30 records.

|                      |                                   |                                   |            |            |            |        |   |         |          |                        |  |
|----------------------|-----------------------------------|-----------------------------------|------------|------------|------------|--------|---|---------|----------|------------------------|--|
| Animals - Amphibians | Rana draytonii                    | California red-legged frog        | AAABH01022 | Threatened | None       | SSC    | - | 3812222 | Cordelia | Mapped and Unprocessed | Animals - Amphibians - Ranidae - Rana draytonii                      |
| Animals - Amphibians | Taricha torosa                    | Coast Range newt                  | AAAAF02032 | None       | None       | SSC    | - | 3812222 | Cordelia | Unprocessed            | Animals - Amphibians - Salamandridae - Taricha torosa                |
| Animals - Birds      | Aquila chrysaetos                 | golden eagle                      | ABNKC22010 | None       | None       | FP, WL | - | 3812222 | Cordelia | Mapped and Unprocessed | Animals - Birds - Accipitridae - Aquila chrysaetos                   |
| Animals - Birds      | Elanus leucurus                   | white-tailed kite                 | ABNKC06010 | None       | None       | FP     | - | 3812222 | Cordelia | Mapped and Unprocessed | Animals - Birds - Accipitridae - Elanus leucurus                     |
| Animals - Birds      | Haliaeetus leucocephalus          | bald eagle                        | ABNKC10010 | Delisted   | Endangered | FP     | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Accipitridae - Haliaeetus leucocephalus            |
| Animals - Birds      | Ardea alba                        | great egret                       | ABNGA04040 | None       | None       | -      | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Ardeidae - Ardea alba                              |
| Animals - Birds      | Ardea herodias                    | great blue heron                  | ABNGA04010 | None       | None       | -      | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Ardeidae - Ardea herodias                          |
| Animals - Birds      | Egretta thula                     | snowy egret                       | ABNGA06030 | None       | None       | -      | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Ardeidae - Egretta thula                           |
| Animals - Birds      | Nycticorax nycticorax             | black-crowned night heron         | ABNGA11010 | None       | None       | -      | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Ardeidae - Nycticorax nycticorax                   |
| Animals - Birds      | Melospiza melodia maxillaris      | Suisun song sparrow               | ABPBXA301K | None       | None       | SSC    | - | 3812222 | Cordelia | Mapped                 | Animals - Birds - Emberizidae - Melospiza melodia maxillaris         |
| Animals - Birds      | Falco peregrinus anatum           | American peregrine falcon         | ABNKD06071 | Delisted   | Delisted   | FP     | - | 3812222 | Cordelia | Unprocessed            | Animals - Birds - Falconidae - Falco peregrinus anatum               |
| Animals - Birds      | Agelaius tricolor                 | tricolored blackbird              | ABPBXB0020 | None       | None       | SSC    | - | 3812222 | Cordelia | Mapped                 | Animals - Birds - Icteridae - Agelaius tricolor                      |
| Animals - Birds      | Athene cunicularia                | burrowing owl                     | ABNSB10010 | None       | None       | SSC    | - | 3812222 | Cordelia | Mapped and Unprocessed | Animals - Birds - Strigidae - Athene cunicularia                     |
| Animals - Insects    | Bombus occidentalis               | western bumble bee                | IIHYM24250 | None       | None       | -      | - | 3812222 | Cordelia | Mapped                 | Animals - Insects - Apidae - Bombus occidentalis                     |
| Animals - Insects    | Desmocerus californicus dimorphus | valley elderberry longhorn beetle | IICOL48011 | Threatened | None       | -      | - | 3812222 | Cordelia | Mapped                 | Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus |
| Animals - Insects    | Speyeria callippe callippe        | callippe silverspot butterfly     | IILEPJ6091 | Endangered | None       | -      | - | 3812222 | Cordelia | Mapped and Unprocessed | Animals - Insects - Nymphalidae - Speyeria callippe callippe         |
| Animals - Mammals    | Reithrodontomys raviventris       | salt-marsh harvest mouse          | AMAFF02040 | Endangered | Endangered | FP     | - | 3812222 | Cordelia | Mapped                 | Animals - Mammals - Muridae - Reithrodontomys raviventris            |



|                         |  |                       |            |            |            |     |      |         |          |                        |  |
|-------------------------|--|-----------------------|------------|------------|------------|-----|------|---------|----------|------------------------|--|
| Animals - Mammals       | <i>Sorex ornatus sinuosus</i>                  | Suisun shrew          | AMABA01103 | None       | None       | SSC | -    | 3812222 | Cordelia | Mapped                 | Mammals - Soricidae - <i>Sorex ornatus sinuosus</i>                                |
| Animals - Mammals       | <i>Myotis yumanensis</i>                       | Yuma myotis           | AMACC01020 | None       | None       | -   | -    | 3812222 | Cordelia | Unprocessed            | Animals - Mammals - Vespertilionidae - <i>Myotis yumanensis</i>                    |
| Animals - Reptiles      | <i>Emys marmorata</i>                          | western pond turtle   | ARAAD02030 | None       | None       | SSC | -    | 3812222 | Cordelia | Mapped                 | Animals - Reptiles - Emydidae - <i>Emys marmorata</i>                              |
| Community - Terrestrial | Serpentine Bunchgrass                          | Serpentine Bunchgrass | CTT42130CA | None       | None       | -   | -    | 3812222 | Cordelia | Mapped                 | Community - Terrestrial - Serpentine Bunchgrass                                    |
| Plants - Vascular       | <i>Balsamorhiza macrolepis</i>                 | big-scale balsamroot  | PDAST11061 | None       | None       | -   | 1B.2 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Asteraceae - <i>Balsamorhiza macrolepis</i>                    |
| Plants - Vascular       | <i>Centromadia parryi</i> ssp. <i>parryi</i>   | pappose tarplant      | PDAST4R0P2 | None       | None       | -   | 1B.2 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Asteraceae - <i>Centromadia parryi</i> ssp. <i>parryi</i>      |
| Plants - Vascular       | <i>Erigeron biolettii</i>                      | streamside daisy      | PDAST3M5H0 | None       | None       | -   | 3    | 3812222 | Cordelia | Unprocessed            | Plants - Vascular - Asteraceae - <i>Erigeron biolettii</i>                         |
| Plants - Vascular       | <i>Isocoma arguta</i>                          | Carquinez goldenbush  | PDAST57050 | None       | None       | -   | 1B.1 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Asteraceae - <i>Isocoma arguta</i>                             |
| Plants - Vascular       | <i>Symphotrichum lentum</i>                    | Suisun Marsh aster    | PDASTE8470 | None       | None       | -   | 1B.2 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Asteraceae - <i>Symphotrichum lentum</i>                       |
| Plants - Vascular       | <i>Trifolium amoenum</i>                       | two-fork clover       | PDFAB40040 | Endangered | None       | -   | 1B.1 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Fabaceae - <i>Trifolium amoenum</i>                            |
| Plants - Vascular       | <i>Trifolium hydrophilum</i>                   | saline clover         | PDFAB400R5 | None       | None       | -   | 1B.2 | 3812222 | Cordelia | Mapped                 | Plants - Vascular - Fabaceae - <i>Trifolium hydrophilum</i>                        |
| Plants - Vascular       | <i>Iris longipetala</i>                        | coast iris            | PMIRI092E0 | None       | None       | -   | 4.2  | 3812222 | Cordelia | Unprocessed            | Plants - Vascular - Iridaceae - <i>Iris longipetala</i>                            |
| Plants - Vascular       | <i>Castilleja affinis</i> var. <i>neglecta</i> | Tiburon paintbrush    | PDSCR0D013 | Endangered | Threatened | -   | 1B.2 | 3812222 | Cordelia | Mapped and Unprocessed | Plants - Vascular - Orobanchaceae - <i>Castilleja affinis</i> var. <i>neglecta</i> |