# **Biological Survey Report**

# Larabee Valley, Humboldt County, California APNs 208-281-026, 210-191-018

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#### I. Summary of Findings and Conclusions

The project at parcel APNs 208-281-026 and 210-191-018, located in Larabee Valley in Humboldt County, California (Figure 1), involves an existing cannabis cultivation and the consolidation of cultivation square footage to avoid potential stream course buffers (Figure 2).

A biological survey was requested by Humboldt County Planning and Building Department, Cannabis Services Division due to the project site containing a mapped polygon for a rare or endangered animal species, the American peregrine falcon (*Falco peregrinus anatum*). This occurrence from 1995 had no detailed location data and was presumed extant.

This biological report reviewed the project at the above APNs to determine to what extent wildlife species currently listed or proposed for listing would be affected, including 16 species determined to potentially occur within the vicinity (Table 1). Listed or proposed plant species will be surveyed at a later date (Spring) due to seasonality issues.

No sensitive wildlife species were found within or near the project area. It has been determined that the project and operations are likely to have little to no effects on these wildlife species.

#### II. Introduction, Background, and Project Understanding

A biological survey was requested by Humboldt County Planning and Building Department, Cannabis Services Division due to the project site containing a mapped polygon for a rare or endangered animal species, the American peregrine falcon (*Falco peregrinus anatum*). The mapped polygon is referring to the California Department of Fish and Wildlife (CDFW) California Natural Diversity Data Base (CNDDB 2018) records of wildlife species occurrences. This occurrence from 1995 had no detailed location data and was presumed extant.

The purpose of this biological report is to review the project in sufficient detail to address the above concern and to determine potential impacts to wildlife species currently listed or formally proposed for listing as endangered or threatened under the state and federal Endangered Species Act or designated as sensitive by the CDFW; these species are hereinafter referred to as special status species.

A biological survey of the project area and the surrounding habitat was conducted to evaluate any potential habitat for special status animal species, including 16 species determined to potentially occur within the vicinity (Table 1) or other environmental issues. In addition, surveys were conducted in order to describe any terrestrial and aquatic animals occurring in and around the project area.

#### **Project Site**

The project is located in Humboldt County in the Larabee Valley area, located approximately 65 miles east of US Highway 101, in the Van Duzen River watershed. The legal description of the site is within the USGS 7.5' quadrangle Larabee Valley T1N, R5E Sec 5 & 8 HB&M. The parcel is approximately 43 acres in size, with the northern border terminating at the Van Duzen river and the southern border adjacent to Highway 36.

#### **Biological Description**

The project site is dominated by Douglas-fir and black oak overstory interspersed with madrone and ash, with an understory of primarily poison oak and grasslands outside of the forested patches. The cultivation areas are more than 100 feet from the edge of the closest watercourse.

#### **Project Description**

There are currently three areas of cannabis cultivation on this parcel. A new cultivation area was established (Appendix, Picture 1) on an existing flat north of the main cultivation area (Appendix, Picture 2). This new site was surveyed for wetland vegetation and water course/buffer issues; a very small patch of juncus, a plant common to moist areas, was present but not of concern (Appendix, Picture 3). The other cultivation area to the east (Figure 2) is by an old residence and currently utilizes half of the garden area (Appendix, Picture 4) due to a seasonally wet area, which the current landowner believes held water due to the overflowing of tanks by the previous landowner.

A pond area (Figure 2) was created by the previous landowner by overflowing storage tanks to a downhill low area that was enhanced by excavation (Appendix, Pictures 5-7). Since the current landowners use these tanks for cultivation water (Appendix, Pictures 8) the pond depression no longer holds water during the dry season and never reaches the level of the overflow pipe/grate (Appendix, Picture 9). In addition, when the exit of the overflow pipe was inspected on the other side of the berm (Appendix, Picture 10) there was no sign of flow occurring there and no channelization.

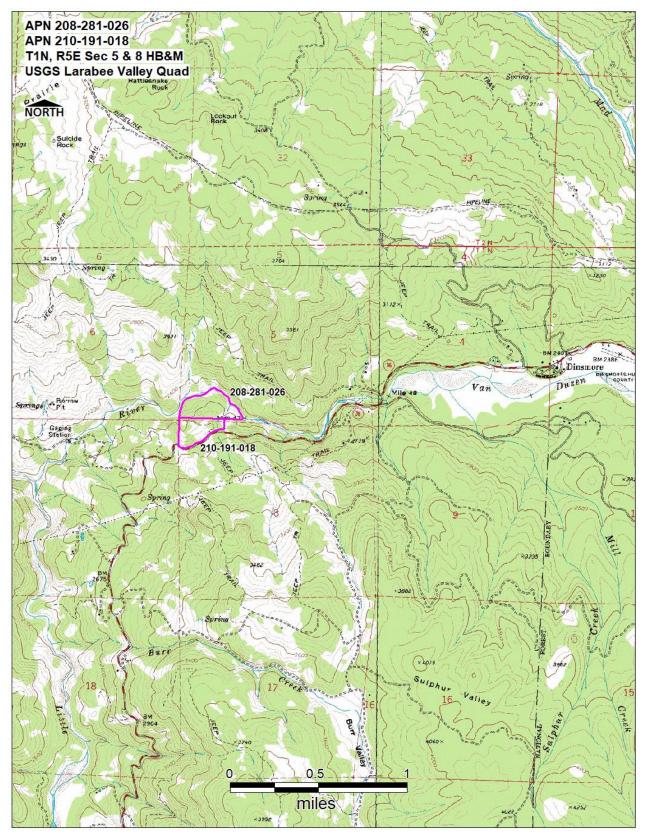


Figure 1. Vicinity map for APNs 208-281-026, 210-191-018

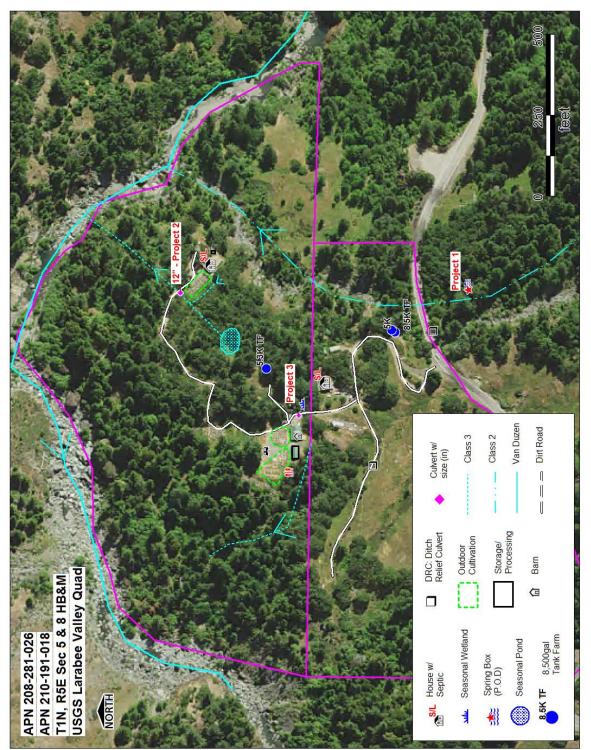


Figure 2. Parcel map for APNs 208-281-026 & 210-191-018

#### III. Methods

#### Pre-Field Review

Prior to the survey, the CDFW California Natural Diversity Data Base (CNDDB 2018) record of wildlife species occurrences for Humboldt County was queried for a nine-quad area around the project area, to determine which special status species may occur within the project area and to compile a target species list (Table 1).

Table 1. CNDDB list of potential special status wildlife species in the Larabee Valley nine-quad area

Common Name	Scientific Name	Federal / State Listing
Cooper's hawk	Accipiter cooperii	Watch List
northern goshawk	Accipiter gentilis	State Special Concern (SSC)
golden eagle	Aquila chrysaetos	Fully Protected
osprey	Pandion haliaetus	Watch List
American peregrine falcon	Falco peregrinus anatum	Delisted, Fully Protected
northern spotted owl	Strix occidentalis caurina	Federal and State Threatened
Sonoma tree vole	Arborimus pomo	SSC
Humboldt marten	Martes caurina humboldtensis	State Endangered
fisher- West Coast DPS	Pekania pennanti	Proposed & Candidate Threatened
Townsend's big-eared bat	Corynorhinus townsendii	SSC
western pond turtle	Emys marmota	SSC
Pacific tailed frog	Ascaphus truei	SSC
northern red-legged frog	Rana aurora	SSC
foothill yellow-legged frog	Rana boylii	Candidate State Threatened
southern torrent salamander	Rhyacotriton variegatus	SSC
summer-run steelhead trout	Oncorhynchus mykiss irideus pop.36	SSC

#### Field Survey

On August 23<sup>rd</sup>, 2018 NRM wildlife biologist Michelle McKenzie conducted a site visit to survey the project and surrounding area for all terrestrial and aquatic species present. The survey was conducted for approximately 4 hours on a warm (78°F/25°C), breezy afternoon.

While walking the area all audial detections of bird and mammal species were noted and the entire area traversed (an approximate 100-foot buffer around the project area) was scanned for wildlife sign (tracks and scat). In addition, all trees were inspected for activity or sign of use by wildlife (cavities, nests, scrapes or accumulated vegetation), and all cover objects were inspected for potential amphibian species.

#### IV. Results and Discussion

#### Summary of Findings

For all species, direct effects are those which are caused by the action (project) and occur at the same time and place. Indirect effects are defined as those effects caused by the proposed action and are later in time, but still reasonably certain to occur. No listed wildlife species or special status species were detected during the survey. Special status and additional species of interest, and the potential for project impacts, are presented in Table 3, below. None of these species are expected to experience impacts from the proposed projects either directly or indirectly. All species detected during the survey are listed in Table 4. Despite the proximity of northern spotted owl AC HUM0155 (0.78 miles away) there is no NSO habitat on this parcel.

#### Survey Results

A CNDDB database search for all special status species within a 1-mile radius of the project revealed one polygon, covering the entire USGS 7.5' Larabee Valley quadrangle, represented the American peregrine falcon (*Falco peregrinus anatum*). This occurrence from 1995 had no detailed location data and was presumed extant. Additional occurrences in the vicinity include foothill yellow-legged frog (*Rana boylii*) from a location 3 miles due west of the parcels in 1965, and two fisher (*Pekania pennanti*) occurrences, both from over 5 miles to the southwest; all occurrences presumed extant. One northern spotted owl (NSO) activity center (AC) is located in the vicinity of this project: HUM0155 is 0.78 miles away.

Although the area surveyed did not reveal any optimal habitat for peregrine falcon, large rock outcroppings for nesting are relatively common in the general area. Furthermore, there does not appear to be sufficient extensive habitat in the immediate project area (100-foot buffer) to support foothill yellow-legged frog or fisher, although yellow-legged frogs are expected to occur in the Van Duzen river and fisher habitat likely exists in the vicinity.

There is not sufficient forested habitat to support listed/candidate species (Coopers hawk, northern goshawk, golden eagle, Humboldt marten, Townsend's big-eared bat), although foraging in the vicinity is presumed likely. Nor is there sufficient aquatic habitat to support listed/candidate species (Pacific tailed frog, southern torrent salamander).

Habitat likely exists for the Sonoma tree vole and use of the Van Duzen river corridor is expected by osprey, western pond turtle, northern red-legged frog and summer-run steelhead trout.

There is one northern spotted owl (NSO) activity centers (AC) within the 1.3-mile disturbance buffer required by the Humboldt County Commercial Cannabis Land Use Ordinance 2.0 (Figure 3). However, the previous landowner entered into the permitting process for cultivation prior to Ordinance 2.0, and there will be no removal of large trees or old growth habitat.

HUM0155 is located due east of the project site (Table 2), across State Highway 36 and the Van Duzen river corridor, suggesting any disturbance created by this project is minimized by highway and river noise.

Table 2. Northern spotted owl ACs in the vicinity of APNs 208-281-026 & 210-191-018

NSO Activity	Last Reported Positive	Last Reported	Approximate Distance to Project (miles)
Center	Data	Negative Data	
HUM0155	1988 nesting pair 2003 unknown individual	2004-2005	0.78

APN 208-281-026 APN 210-191-018 T1N, R5E Sec 5 & 8 HB&M USGS Larabee Valley Quad

#### **NSO Activity Center Locations**

Parcel Boundary 1.3-mile Buffer Around Site

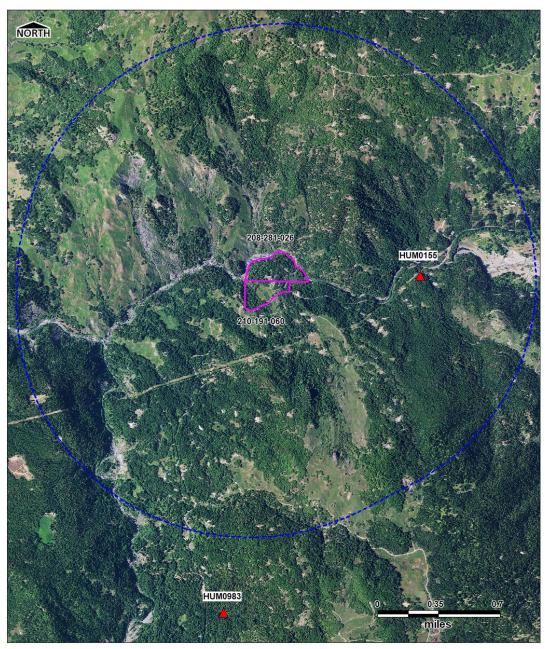


Figure 3. Northern spotted owl ACs in the vicinity of APNs 208-281-026 & 210-191-018

Special status and additional species of interest, and the potential for project impacts, are presented in Table 3, below. None of these species are expected to experience impacts from the proposed projects either directly or indirectly. All species detected onsite are recorded in Table 4.

Table 3. Special status and additional species of interest and potential project impacts

Common Name Scientific Name	Listing Status	General Habitat Description	Presence of Suitable Habitat w/in Site?	Potentially Affected by Project?	Comments
BIRDS					
Cooper's hawk	WL	Woodland, chiefly of open, interrupted or marginal type	Yes	No	Some nesting/foraging habitat may be present, but unlikely to have any impacts
northern goshawk	SSC	Within, and in vicinity of, coniferous forest; uses old nests, and maintains alternate sites	No	No	Some nesting/foraging may be present, but unlikely; also project unlikely to have any impacts
golden eagle	FP	Rolling foothills, mountain areas, sage- juniper flats, and desert	No	No	Parcel in vicinity of habitat but unlikely to have any impacts
osprey	WL	Ocean shore, bays, freshwater lakes, and larger streams	No	No	May use Van Duzen river
American peregrine falcon	FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures	No	No	Some large rock outcrops typically for nesting for this species in the vicinity
northern spotted owl	Т	Old-growth forests or mixed stands of old-growth and mature trees; occasionally in younger forests with patches of big trees	No	No	Some habitat present but project impacts unlikely; closest known AC is approximately 4100 ft from project area

MAMMALS					
Sonoma tree vole	SSC	North coast fog belt from Oregon border to Sonoma County; in Douglas-fir, redwood & montane hardwood-conifer forests	Yes	No	Habitat is present but project impacts unlikely as no trees will be removed
Humboldt marten	SE	Occurs only in the coastal redwood zone from the Oregon border south to Sonoma County	No	No	Habitat may be present in vicinity, but project impacts unlikely; no large trees observed
fisher	СТ	Intermediate to large-tree stages of coniferous forests and deciduous-riparian areas with high percent canopy closure	No	No	Habitat may be present in vicinity, but project impacts unlikely; no large trees observed
Townsend's big- eared bat	SSC	Throughout California in a wide variety of habitats; most common in mesic sites	No	No	Typically found in caves, mines, manmade structures and tree cavities
HERPETOFAUNA					
western pond turtle	SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6,000 ft elevation	No	No	Nesting habitat likely to be in Van Duzen river corridor; no impacts expected
Pacific tailed frog	SSC	Occurs in montane hardwood-conifer, redwood, Douglas-fir & ponderosa pine habitats	No	No	No creeks or Van Duzen steep or cool enough for this species
northern red-legged frog	SSC	Humid forests, woodlands, grasslands, and stream sides in northwestern California, usually near dense riparian cover	No	No	Habitat likely exists on Van Duzen; no project impacts expected
foothill yellow- legged frog	СТ	Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats	No	No	Rarely encountered far from rocky streams; may be present in Van Duzen river; no impacts expected
southern torrent salamander	SSC	Coastal redwood, Douglas-fir, mixed conifer, montane riparian, and montane hardwood-conifer habitats; Old growth forests	No	No	Requires cold, well shaded permanent water; stays within splash zone; no habitat present and no project impacts expected

State:

FP Fully protected (legally protected)
SC Candidate Federal:

FC Candidate FE Endangered (legally protected)

SE Endangered (legally protected)

SSC Species of special concern (no formal protection other than CEQA consideration) ST Threatened (legally protected) FT Threatened (legally protected)

Table 4. Species detected at APNs 208-281-026 and 210-191-018, August 23, 2018

Common Name	Scientific Name	Fed/ State Listing	Detection Method
mourning dove	Zenaida macroura	No	Visual
red-breasted nuthatch	Sitta canadensis	No	Auditory
ruby-crowned kinglet	Regulus calendula	No	Auditory
golden-crowned kinglet	Regulus satrapa	No	Auditory
rufous hummingbird	Selasphorus rufus	No	Visual
barn swallow	Hirundo rustica	No	Visual
white-crowned sparrow	Zonotrichia leucophrys	No	Auditory
Wilson's warbler	Cardellina pusilla	No	Visual
chestnut-backed chickadee	Poecile rufescens	No	Auditory
common raven	Corvus corax	No	Auditory
red-breasted sapsucker	Sphyrapicus ruber	No	-
song sparrow	Melospiza melodia	No	Visual
northern flicker	Colaptes auratus	No	Visual
olive-sided flycatcher	Contopus cooperi	SSC	Visual & Auditory
western wood peewee	Contopus sordidulus	No	Visual
Oregon junco	Junco hyemalis	No	Visual
red-tailed hawk	Buteo jamaicensis	No	Visual
acorn woodpecker	Melanerpes formicivorus	No	Auditory
Steller's jay	Cyanocitta stelleri	No	Visual & Auditory
turkey vulture	Cathartes aura	No	Visual
western meadowlark	Sturnella neglecta	No	Auditory
band-tailed pigeon	Patagioenas fasciata	No	Visual
western tanager	Piranga ludoviciana	No	Visual & Auditory
spotted towhee	Piplio maculatus	No	Visual & Auditory
lesser goldfinch	Spinus psaltria	No	Visual & Auditory
American robin	Turdus migratorius	No	Visual
hairy woodpecker	Leuconotopicus villosus	No	Visual
song sparrow	Melospiza melodia	No	Auditory
raccoon	Procyon lotor	No	Scat
gray fox	Urocyon cinereoargenteus	No	Scat
coyote	Canis latrans	No	Scat
striped skunk	Mephitis mephitis	No	Scat
black-tailed deer	Odocoileus hemionus columbianus	No	Scat, Tracks
western fence lizard	Sceloporus occidentalis	No	Visual
northern alligator lizard	Elgaria coerulea	No	Visual

#### Cumulative Effects

No cumulative effects from the proposed project on regulated species is expected.

#### Management Recommendations

1. Any structure requiring lighting (mixed light greenhouses or nurseries) before sunrise or after sunset MUST be covered to avoid any effects on nocturnal wildlife. Further, all attempts to keep noise levels at a minimum during year-round operations will help maintain the quality of habitat for all wildlife species.

## **Appendix A. Site Photos** Pictures taken August 23, 2018



Picture 1. New cultivation area



Picture 2. Main cultivation flat, looking west



Picture 3. Small patch of juncus to left of gate at new cultivation area



Picture 4. Cultivation area near old house; flat to right of plants not used due to seasonally wet area, which may have held water due to the overflowing of tanks by previous landowner



Picture 5. Irrigation tanks that previously flowed downhill (far side of tanks) to pond depression



Picture 6. Tanks (behind photographer) previously filled this pond depression; outflow is dark area to left of person



Picture 7. Irrigation tanks visible at top of picture; photographer standing in pond depression



Picture 8. Irrigation tanks (to right) that water main cultivation flat in upper center of picture



Picture 9. View of pond depression and overflow pipe/grate (dark square upper center left) near top of berm



Picture 10. White clipboard on top of berm, surveyor to right at overflow pipe exit, with no evidence of flow or channelization