Biological Report



APN 317-055-001 and 317-055-009 Humboldt County, California



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Table of Contents

| I. Summary of Findings and Conclusions | 1 |
|---|----------|
| II. Introduction, Background, and Project Understanding | 2 |
| Project Site | 2 |
| Topography and Hydrology | |
| Biological Description | 9 |
| Project Description | |
| III. Methods | |
| Pre-Field Review | |
| Field Survey | 17 |
| IV. Results and Discussion | |
| Summary of Findings | |
| Survey Results and Discussion | |
| V. Management Recommendations | 29 |
| VI. References Cited | |
| Appendix A: Photos taken November 25 th , 2019 | |
| Appendix B: Well Completion Reports | |
| Figures | |
| Figure 1. Vicinity map | 4 |
| Figure 2. Site map (Topographic) | 8 |
| Figure 4. Plot plan APN 317-055-001 | 11 |
| Figure 5. Plot plan APN 317-055-009 | 12 |
| Figure 6. NSO ACs and CNDDB records (Satellite) | 15 |
| Figure 7. NSO ACs and CNDDB records (Topographic) | 16 |
| Tables | 4.7 |
| Table 1.CNDDB list of potential special status wildlife species in the Sims Mountain nine-quad area | 13 14 |
| Table 2. NSO Activity Centers in the vicinity of APNs 317-055-001 and 317-055-009 Table 3. Special status species, suitable habitat in project area, and potential impacts | 14 10 |
| Table 4. Species detected at APNs 317-055-001 and 317-055-009, November 25, 2019 | |

I. Summary of Findings and Conclusions

The projects at parcel APNs 317-055-001 and 317-055-009, located approximately 6.5 miles northwest of the community of Hyampom, Humboldt County, California (Figure 1), includes cannabis cultivation on the parcels by the landowner. The landowner is applying for a Tier 1 cultivation permit under the Humboldt County Commercial Medical Marijuana Land Use Ordinance (CMMLUO) as an existing cultivator for the maximum square footage of full sun outdoor cannabis cultivation allowable (in process of obtaining Cultivation Area Verification). A Cultivation, Operations, and Security Plan (COPS) was provided for APN 317-055-001 (APN 001) and proposes to permit for 9,000 square feet of existing outdoor cultivation within hoophouses or, depending on the timing of permitting which may delay assembly of structures, planted in full sun. The landowner stated that the COPS Plan will be similar for APN 317-055-009 (APN 009) with permitting proposed for 30,000 square feet.

The project areas and surroundings were surveyed in order to describe the terrestrial and aquatic plants and animals occurring in and around cultivation areas and watercourses, as well as determine whether habitat exists for special status species.

This Biological Report reviews the project at the above APNs to determine to what extent wildlife species currently listed or proposed for listing (Table 1), including northern spotted owl (Table 2) would be affected (Table 3). Habitat for listed or sensitive wildlife species, collectively referred to as special status species, was identified in the vicinity of the project areas for Cooper's hawk (Accipiter cooperii). No northern spotted owl (NSO) nesting habitat exists on the parcel. The nearest NSO nesting habitat appears to be in the vicinity of historic Activity Center (AC), approximately 1-mile northeast. No special status wildlife species were detected during the biological survey (Table 4). It has been determined that the project and operations will have no significant impacts on wildlife species in the vicinity of the project areas if mitigation recommendations are adhered to.

Summary of Further Surveys Needed and Mitigation Recommendations

- All generators in use will require noise-reducing containment with ventilation
- Strict adherence to Riparian Setback Requirements for Humboldt County and State Water Board are required to maintain quality habitat for amphibians and anadromous fish.
- Propagation (nursery) hoophouses utilizing early-season, low impact lighting will require tarps to block all potential light pollution from at least one hour prior to sunset through at least one hour past sunrise.
- No use of plastic support netting. This plastic netting is a hazard to all forms of wildlife and is not to be used. CDFW recommends using netting of natural materials such as jute or hemp, with no welded seams.

- No rodenticides shall be used.
- Seasonally appropriate plant surveys may be required for South Fork Mountain Lupine in the vicinity of proposed project sites on APN 009.

II. Introduction, Background, and Project Understanding

The purpose of this Biological Report is to review the project (described below) in sufficient detail to determine existing or potential impacts to wildlife species currently listed or formally proposed for listing as endangered or threatened under the Federal or State Endangered Species Act (ESA), or designated as protected or sensitive by the California Department of Fish and Wildlife (CDFW); these species are hereinafter referred to as special status species (Table 1). Species with potential habitat present, or whose presence was not confirmed but potentially occur in the general area are addressed in Table 3.

The project parcel is located within the South Fork Trinity River watershed approximately 6.5 miles northwest of Hyampom, in Humboldt County, California (Figure 1), and includes previous cannabis cultivation (Figures 2, 3). Note that mileages are estimates from satellite and topographic imagery and distances are given in approximate air miles.

A biological assessment of the project area and the surrounding habitat was conducted to evaluate any potential habitat for special status animals or other environmental issues. In addition, these areas were surveyed to describe any terrestrial and aquatic animals occurring in and around the project areas.

Project Site

The project parcels are located within an inholding in Six Rivers National Forest (SRNF). According to the Humboldt County Web GIS Portal, the parcels are 176 acres (APN 001) and 160 acres (APN 009) in size, with a legal description of T03N, R05E, Sections 11 and 12, HB&M, within the USGS 7.5' Sims Mountain quadrangle (Figure 1). The current landowner purchased the parcels in 2013 (APN 009) and 2015 (APN 001).

The parcels are accessed from USFS Route 1 (Titlow Hill Road), a paved forest road that connects State Highway 299 at Berry Summit to State Highway 36 in the vicinity of Ruth Reservoir, approximately 5 miles east of the community of Mad River. The access road to the parcels enters APN 001 in the vicinity of Black Fox Rock (Cover Photo; Figure 2), in the southeast. This enhanced logging road (visible in Figure 3) continues onto APN 009 to 9 pre-existing cultivation sites, essentially following the ridge between the two Big Creek tributaries from cultivation site #1 to #7, before heading north, crossing the watercourse, exiting then entering the parcel to access cultivation sites #8 and #9.

When viewing the general area in Google Earth imagery (1998-2019, Google Earth Pro 2019), most of the 9 cannabis cultivation sites on APN 009 appears to occur at landings or openings associated with previous timber harvesting activities; on APN 001 cultivation occurs after the 2016 imagery, and before the next available imagery of 2019.

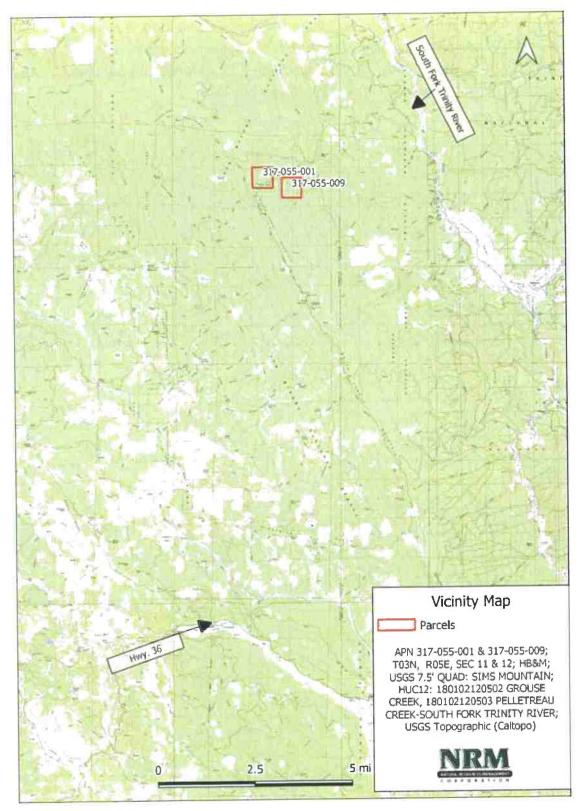


Figure 1. Vicinity map for APNs 317-055-001, 317-055-009

Topography and Hydrology

The project parcel is located within the headwaters' region of Big Creek in the South Fork Trinity River watershed. These headwater tributaries emerge from South Fork Mountain, a prominent ridge that originates in the vicinity immediately south of APN 001, with spring emanating from near Black Fox Rock in the southern portion of this APN. These tributaries converge approximately one-half mile east of the APN 009 boundary, at an approximate elevation of 3,200 feet, flowing approximately 3.5 miles to confluence with the South Fork Trinity River, at an approximate elevation of 1,200 feet, near the community of Hyampom (Figure 1). There is a general northeast aspect to the parcel towards the South Fork Trinity River watershed.

The South Fork Trinity River originates in the Yolla Bolly Middle Eel Wilderness near the Mendocino county line, and flows north from the Hyampom region approximately 20 miles to the mainstem Trinity River, approximately 4 miles south of the town of Willow Creek. The Trinity River continues north approximately 18 miles to the community of Weitchpec, where the Trinity River confluences with the Klamath River. From here the Klamath River flows approximately 32 miles to the Pacific Ocean at the community of Requa.

There are primarily 3 unnamed watercourses (Figure 2) on the western parcel (APN 001). The spring originating from base of Black Fox Rock flows east onto APN 009 and is a tributary to Big Creek; this is greater than 400 feet south of the Black Fox Rock Cultivation Site #1. The two northernmost watercourses are tributary to Bear Creek, and are greater than 200 feet from the cultivation area; a third watercourse to the west is buffered in Figure 2. None of these tributaries were flowing during the time of the site visit.

There are 3 unnamed watercourses (Figure 2) on the eastern parcel (APN 009). The spring from APN 001 flows east onto the northwest portion of APN 009, joining a middle tributary to Big Creek; after this point, water was flowing in the channel during the site visit. The southern watercourse on this parcel is also tributary to Big Creek, which flows south over 1,000 feet from the nearest proposed Cultivation Site #4. Cultivation Sites #1 and #2 were physically measured due to the appearance of the footprint occurring within the 200-foot watercourse setback when measured in GIS (Figure 2). A 100-feet measuring tape was used to verify distances on the ground; the 200-foot mark was photo documented (Appendix A, Photos 2a, b; 3a, b)

The parcels are located off the east slope of South Fork Mountain, surrounded by Six Rivers National Forest. The Humboldt-Trinity county line is approximately 1 mile east of the APN 009 boundary, where forestlands become Shasta-Trinity National Forest. The South Fork Mountain ridge originates in the vicinity of the parcels and continues south for approximately 35 miles to near Ruth Reservoir on the Mad River. This ridge is one of the longest contiguous ridgelines in North America, starting at 5,752 feet in elevation in the north to 1,662 feet, southeast of Ruth Reservoir approximately 7 miles.

Elevations on APN 001 range from approximately 5,500 feet in the southwest corner, to 4,600 feet in the northeast corner; the only cultivation area on this parcel, Black Fox Cultivation Site, is at approximately 5,000 feet. Elevations on APN 009 range from approximately 4,800 feet in the southwest corner, to 4,000 feet in the northeast; the 9 pre-existing cultivation areas span this elevational range.

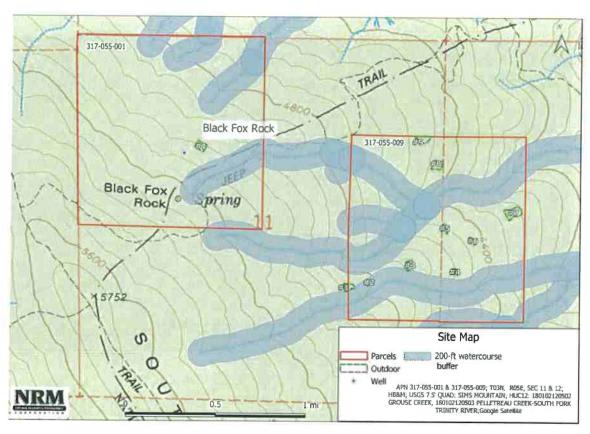


Figure 2. Site map for APNs 317-055-001, 317-055-009, with 200-ft buffers on watercourses

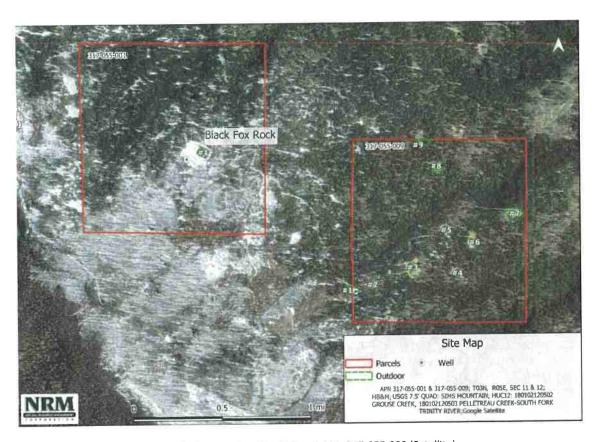


Figure 3. Site map for APNs 317-055-001, 317-055-009 (Satellite)

Biological Description

The project parcels are located within the South Fork Trinity River watershed, a designated Wild and Scenic River that is a tributary to the Trinity River, which is tributary to the Klamath River. In 2015, a large forest fire burned across tens of square miles (Figure 3, covered in snow) from the general area of the parcels, south along the South Fork Mountain ridge road (USFS Route 1).

The South Fork Trinity River, east of South Fork Mountain approximately 5 miles, is one of the largest undammed river systems in California, covering approximately 82 miles from the headwaters to the mainstem Trinity River. Historically, this river supported critical habitat for spring run chinook, summer and winter-run steelhead; populations of these species are still present but declining.

This coastal mountain area in central Humboldt County is characterized by Douglas-fir dominated forests with lesser components of tan oak, madrone, and other conifer species.

Project Description

The projects at parcel APN 001 and APN 009, located approximately 6.5 miles northwest of the community of Hyampom, Humboldt County, California (Figure 1), includes cannabis cultivation on the parcels by the landowner. The landowner is applying for a Tier 1 cultivation permit under the Humboldt County CMMLUO as an existing cultivator. A Cultivation, Operations, and Security Plan (COPS) was provided for APN 001 (APPS #13340) and proposes to permit for 9,000 square feet of existing outdoor cultivation within hoophouses or, depending on the timing of permitting which may delay assembly of structures, plant in full sun. The landowner stated that the COPS Plan will be similar for APN 009 (APPS #13349) with permitting proposed for 30,000 square feet. Past cannabis cultivation sites are at landings or openings along the access road associated with previous timber harvesting activities, resulting in flat cultivation areas with little visible runoff. (Figures 4, 5).

Cultivation at APN 001 will occur at one location, the Black Fox Cultivation Site (Cultivation Site #1, Photo 1) in the vicinity of the well and adjacent to the access road (Figures 2, 3, 4). There is a single watercourse crossing on the access road to the cultivation site with an undersized culvert to be replaced in 2020. Cultivation at APN 009 will occur at 9 locations (Figures 2, 3, 5; Photos 2-11). There are additional watercourse crossings on the access road to these proposed cultivation locations, and some culvert work may be required (per pending LSAA with CDFW).

The primary source of irrigation water will be from the wells (Figures 2, 3) located on each parcel (Well Completion Reports, Appendix B). These groundwater wells will be verified by CDFW as disconnected from jurisdictional waters prior to use. There are currently two 2,500-gallon hard sided plastic water tanks for water storage on APN 001. The landowner will increase storage capacity for drawing water during the forbearance period to meet all irrigation needs should the wells be determined jurisdictional.

Plants will be cultivated in raised beds and watered by drip irrigation system and by hand every other day during the growing season. Water will be applied at agronomic rates to eliminate runoff and soils will be amended and mulched to increase moisture retention. Estimated water use for APN 001 is 117,000 gallons; estimates for APN 009 are approximately 350,000 gallons. Flow meters will be installed prior to any cultivation operations on the outgoing lines for the wells and storage tanks for accurate annual usage rates.

Fertilizers and soil amendments proposed for use are non-toxic and natural-based. These products, along with a sample schedule of use and on-site storage amounts are listed in the COPS Plan. Due to the proximity to NSO Activity Centers, no rodenticides or herbicides will be used.

Dependent on permit timing, some early season lighting (low-watt compact fluorescent) may be used to keep young starts in a vegetative, non-flowering state. These bulbs project light only a short distance but hoophouses will nonetheless be covered with tarps to avoid any potential light pollution and disruption to local wildlife. This is the only use of lights for cultivation purposes, and will be powered by generators. Generators will need to be housed within noise containment structures with proper ventilation.

For Tier 1 applicants, Humboldt County requires a setback (buffer) of 50 feet from Class II watercourse top of bank or riparian drip-line, whichever is greater; State Water Board Orders require this buffer to be 200 feet. These Stream Management Areas (SMAs) are necessary for natural filtration and sediment control; all cultivation sites are well outside required buffers (Figures 4, 5). Because the parcels receive most precipitation as snow, sediment transport potential is greatly reduced.

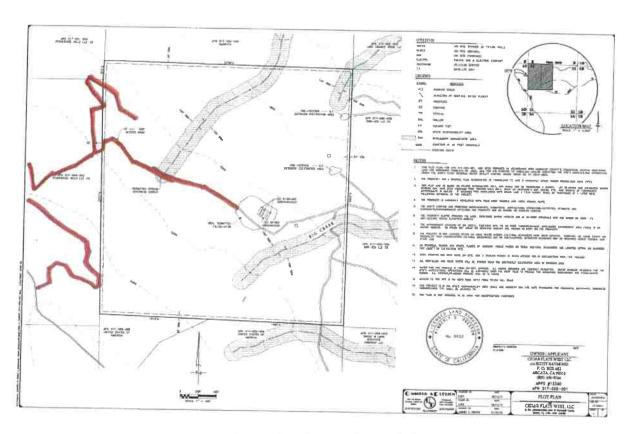


Figure 4. Plot plan for APN 317-055-001

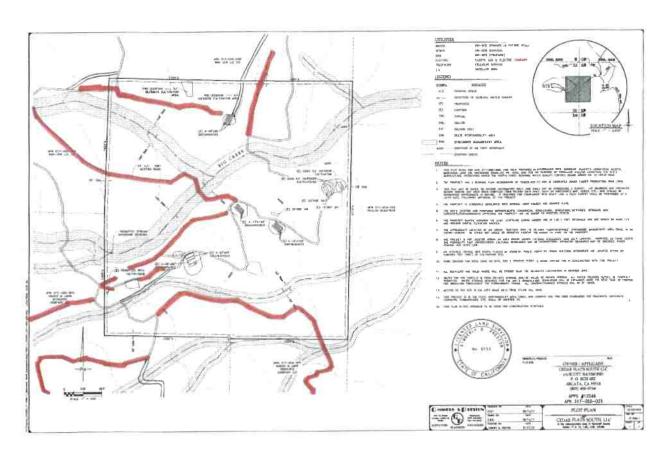


Figure 5. Plot plan for APN 317-055-009

III. Methods

Pre-Field Review

Prior to initiating field surveys, a query of the CDFW California Natural Diversity Data Base (CNDDB 2020) for wildlife species occurrences within a nine-quad topographical map area of the parcels was conducted. This provides a comprehensive target species list from which to determine habitat, presence, or sign of species, as well as any known locations for special status species in the general area (Table 1), including northern spotted owl (NSO) Activity Centers (ACs).

Table 1. CNDDB list of special status wildlife species in the Sims Mountain nine-quad area.

| Common Name | Scientific Name | Federal / State Listing | |
|--|----------------------------|--|--|
| northern spotted owl | Strix occidentalis caurina | Federal and State Threatened | |
| flammulated owl Psiloscops flammeolus | | None | |
| bald eagle | Haliaeetus leucocephalus | State Endangered, Fully Protected | |
| northern goshawk | Accipiter gentilis | Species of Special Concern (SSC) | |
| osprey | Pandion haliaetus | Watch List | |
| Cooper's hawk | Accipiter cooperii | Watch List | |
| mountain plover | Charadrius montanus | SSC | |
| yellow-breasted chat | Icteria virens | SSC | |
| ruffed grouse | Bonasa umbellus | Watch List | |
| red-breasted sapsucker | Sphyrapicus ruber | None | |
| fisher- west coast DPS | Pekania pennanti | Federal Endangered, State Threatened, SSC | |
| Townsend's big-eared bat | Corynorhinus townsendii | SSC | |
| pallid bat | Antrozous pallidus | SSC | |
| silver-haired bat | Lasionycteris noctivagans | None | |
| hoary bat | Lasiurus cinereus | None | |
| long-eared myotis | Myotis evotis | None | |
| little brown bat | Myotis lucifugus | None | |
| fringed myotis | Myotis thysanodes | None | |
| long-legged myotis | Myotis volans | None | |
| Yuma myotis | Myotis yumanensis | None | |
| Sonoma tree vole | Arborimus pomo | SSC | |
| North American porcupine | Erethizon dorsatum | None | |
| Pacific tailed frog | Ascaphus truei | SSC | |
| foothill yellow-legged frog | Rana boylii | SSC, State Endangered | |
| Del Norte salamander | Plethodon elongatus | Watch List | |
| southern torrent salamander | Rhyacotriton variegatus | SSC | |
| western pond turtle | Emys marmorata | SSC | |
| summer-run steelhead trout Oncorhynchus mykiss irideus pop.3 | | Federal Threatened, State Candidate Endangered | |
| Chinook salmon | O. tshawytscha pop. 30 | State Candidate Endangered | |
| coho salmon | O. kisutch pop. 2 | Federal and State Threatened | |
| western bumble bee | Bombus occidentalis | Candidate State Endangered | |

The survey protocol for NSO Activity Centers (USFWS Revised 2012) in non-redwood (interior) habitat (USFWS 2008) requires a 1.3-mile habitat analysis buffer for determining potential project effects. The nearest AC to any of the project sites is approximately one mile to the northeast (Figures 6, 7). Recent NSO data for the nearest ACs are displayed in Table 2.

Table 2. NSO Activity Center in the vicinity of APNs 317-055-001, 317-055-009

| NSO Activity Center | CNDDB Reported Positive Data | CNDDB Reported Negative Data | Approximate Distance to Nearest Project Site (miles) |
|---------------------------|---|---------------------------------|--|
| HUM0275 | 1998-2001, 2004, 2010 Nesting Pair 1990, 1997, 2002, 2003, 2005, 2008, 2011-2013, 2015, 2016 Non-nesting Pair 1985, 2009 Single NSO | 1996, 2006, 2007 | 1.0 |
| TRI0500 | 1984, 1993, 1997, 2000, 2002, 2003, 2005, 2018 Nesting Pair 1994-1996, 1998 1999, 2001, 2004, 2006 Non-nesting Pair 1990, 2008, 2009 Single NSO | 2010 | 1.3 |

A CNDDB database search for all special status species within a 1-mile radius of the project included a single record for northern goshawk (Accipiter gentilis) from Bennett Peak, approximately 0.7 miles northeast of the parcel boundary (1982; presumed extant). In addition, there were 5 plant species identified, with South Fork Mountain lupine (Lupinus elmeri) occurring in the vicinity of cultivation sites #3-6 and #8-9 (Figures 6, 7).

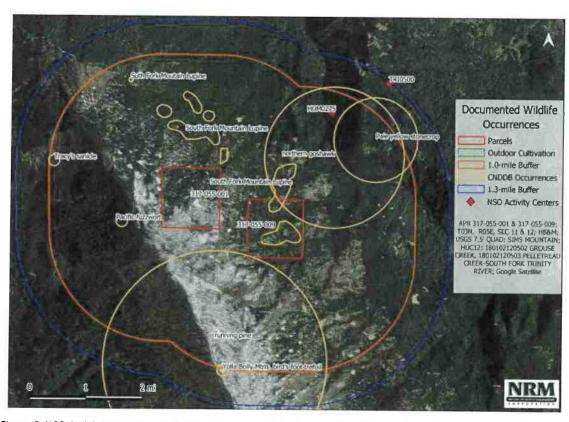


Figure 6. NSO Activity Centers and CNDDB species records in the vicinity of APNs 317-055-001, 317-055-009 (Satellite)

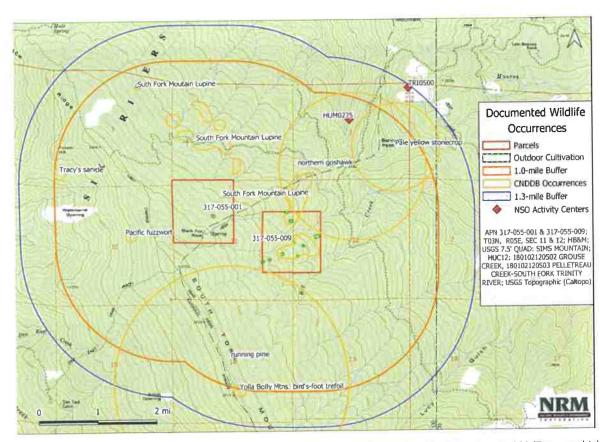


Figure 7. NSO Activity Centers and CNDDB species records in the vicinity of APNs 317-055-001, 317-055-009 (Topographic)

Field Survey

On November 29th, 2019, NRM wildlife biologist Michelle McKenzie conducted a site visit to survey existing cultivation areas, watercourses, and habitats where special status species (see Table 1) may occur. This survey was conducted for approximately 4 hours on a cool (45°F/7°C), mostly sunny, windy 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 areas due to steep terrain) was scanned for wildlife sign (tracks and scat). In addition, trees were inspected for activity or sign of use by wildlife (cavities, nests, scrapes, accumulated vegetation), and cover objects were inspected for potential amphibian species.

IV. Results and Discussion

Summary of Findings

For all species, direct impacts are those which are caused by the action (project) and occur at the same time and place. Indirect impacts are defined as those effects caused by the proposed action and are later in time, but still reasonably certain to occur.

Special status species and the potential for project impacts are presented in Table 3. Species are considered on a case-by-case basis as to the project's impact based on considerations such as home range, habitat, and sensitivity to disturbance. No habitat for listed or sensitive wildlife species was identified in the vicinity of the project areas. The nearest NSO habitat appears to be in the vicinity of historic Activity Center (AC), approximately 1-mile northeast. No special status wildlife species were detected during the biological survey (Table 4). It has been determined that the project and operations will have no significant impact on wildlife species in the vicinity of the project areas.

Survey Results and Discussion

The area surveyed included the project sites and watercourses on the parcel, and any areas that may have wetlands or other sensitive habitats based on presurvey satellite imagery.

The parcels are located immediately adjacent to the ridgeline road, USFS Route 1, and surrounded by Six Rivers National Forest, where extensive timber harvest operations have been occurring for decades. There are two NSO ACs in the vicinity of the project parcels; the nearest is approximately 1-mile northeast of proposed cultivation site #7 (Figures 6, 7). This AC (HUM0275) was reported as a non-nesting pair in 2016, after having nested from 2011-2013. It is assumed that the habitat still exists, therefore, the AC is considered active. Because there is no nesting habitat present in the immediate vicinity of the project sites and no impacts are expected from this outdoor operation, no NSO surveys are recommended despite an AC within the 1.3-mile analysis buffer. Historic logging in the area removed the majority of nesting habitat for NSO,

however, habitat appears to remain in the vicinity of historic ACs. Although some foraging habitat may exist on the parcel NSOs are unlikely to utilize this ridgetop habitat due to low canopy cover. Some impacts to NSOs could occur if generators are not housed in noise-reducing containment, and are operated during nesting season.

There is no habitat on the parcel to support bald eagle or osprey, which are expected to occur in the South Fork Trinity River watershed, due east approximately 3.5 miles from APN 009 where ample food and nesting habitat exists.

There are no large tracts of mature trees on the parcel to support special status species requiring such habitat, including northern goshawk and fisher. Although some large trees with nesting or denning opportunities are likely present on the landscape, proximate forest patches are limited in size for these species. The CNDDB record for goshawk in the Bennett Peak area is dated (1982) and the area appears to have experienced some fire (lightning strike), but the habitat appears intact. This peak, on the eastern ridge of Bear Creek, is located near the headwaters and the AC for HUM0275. Foraging in the general area is expected from fisher, a wide-ranging species, particularly in the vicinity of watercourses with sufficient canopy cover.

Most of the Douglas-fir on the parcel is small to moderate in size, but potentially adequate to support Sonoma tree vole, typically a fog belt species but with several inland records. Suitable habitat likely exists across the parcel where Douglas-fir dominates, this species' preferred food source, but is not expected to occur near the ridgetop.

Structures on the parcel that could provide roosting or breeding habitat for Townsend's bigeared bat were inspected. No sign of guano or use was detected at the buildings on site. Foraging in the vicinity of watercourses, where insect abundance is greatest, is presumed.

Optimal habitat for southern torrent salamander and Pacific tailed frog is expected in Big Creek and tributaries where headwater creeks, fast flowing water and rocky substrates are more likely available. Foothill yellow-legged frogs, a stream-dwelling species, likely occurs in the lower reaches of Big Creek and within the South Fork Trinity River basin. Del Norte salamanders require damp terrestrial environments with talus, typically in older forests; no habitat for this species occurs on the parcels.

Western pond turtles would be expected in the South Fork Trinity River in areas with available banks for sunning and basking substrates (rocks and logs).

Additional species expected in the South Fork Trinity River would include anadromous fish species. Summer-run steelhead trout, coastal cutthroat trout and Chinook salmon have historic runs reported for tributaries to the South Fork Trinity River (Calfish 2004).

October 2020

Special status species and the potential for impacts to species from the proposed projects, either directly or indirectly, are summarized in Table 3, below. Species are considered on a case-by-case basis as to the project's impacts based on considerations such as home range, habitat, and sensitivity to disturbance.

Table 3. Special status species, suitable habitat in project site(s), and potential impacts

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|-------------------------|-------------------|--|--|--|---|
| BIRDS | | l. | | | |
| northern spotted owl | FT, ST | Old-growth forests or mixed stands of old- growth and mature trees; occasionally in younger forests with patches of big trees | Yes | Yes | Less than significant impacts, due to no nesting habitat in the project vicinity, suboptimal foraging; nearest habitat likely associated with existing Activity Center, approximately 1-mile northeast of nearest project location; light and noise pollution mitigation required |
| flammulated owl | None | Frequents montane forests, especially Ponderosa pine; favors small openings, edges, clearings with snags for nesting and roosting; migratory | Yes | No | No impacts; primarily Douglas fir habitat, but likely forages in general vicinity |
| bald eagle | SE | Requires large bodies of water or free flowing rivers with abundant fish and adjacent perches; nests near water in large dominant trees | No | No | No impacts; this species expected to occur in the SF Trinity River corridor, approximately 3.5 air miles east of nearest parcel boundary |
| northern goshawk | SSC | Prefers middle and higher elevations with mature, dense conifer forests; usually nests near water on north facing slopes; riparian and open areas required | No | No | No impact; although parcel elevations within range of this species, no mature conifer forest on parcel and no riparian vegetation associated with watercourses; expected in vicinity of historic CNDDB record at Bennett Peak, east approximately 1 mile |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|--------------------|-------------------|---|--|--|--|
| Cooper's hawk | WL | Frequents landscapes with patchy woodland habitat, dense tree stands; nesting and foraging usually near open water or riparian vegetation | Yes | Yes | Less than significant impacts; no riparian vegetation or other optimal nesting habitat, but foraging expected on parcels |
| osprey | WL | Ocean shore, bays, freshwater lakes, and larger streams. Large nests built in treetops within 15 miles of a good fishproducing body of water | No | No | No impacts; this species expected to occur in the SF Trinity River corridor, approximately 3.5 air miles east of nearest parcel boundary |
| mountain plover | SSC | Short grasslands, freshly plowed fields, newly sprouting grain fields. Short vegetation, bare ground, and flat topography. Prefers grazed areas and areas with burrowing rodents. | No | No | No impacts; no habitat on parcels |
| ruffed grouse | WL | Valley foothill riparian and surrounding coniferous forests at low to mid elevations; requires habitat mosaic | Yes | No | No impacts; likely some optimal habitat on parcels, none in vicinity of project areas |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|-----------------------------|-------------------|--|--|--|--|
| red-breasted sapsucker | None | Found in riparian, deciduous hardwood or mixed conifer habitats; sparse to moderate canopy cover with snags; some open habitat; typically nests near water | No | No | No impact; likely to forage in the area, no optimal nesting habitat in vicinity of projects |
| yellow- breasted chat | SSC | Requires riparian thickets of willow and other brushy tangles near watercourse | No | No | No impacts; no suitable habitat in the vicinity of the projects |
| MAMMALS | | | l. | <u> </u> | |
| fisher | FC, SSC | Intermediate to large-tree stages of coniferous forests and deciduous-riparian areas with high percent canopy closure | No | No | No impact; the nearest potential denning habitat is vicinity of Bear Creek watercourse; foraging on the parcels or transiting through is expected |
| Townsends big- eared bat | SSC | Throughout California in a wide variety of habitats; most common in mesic sites Typically found in caves, mines, manmade structures | No | No | No impact; possible roosting sites on parcel in forested areas if any large trees with cavities exist, otherwise foraging expected in riparian areas and SF Trinity River corridor, approximately 3.5 miles east of nearest parcel boundary. All building perimeters inspected, no sign of bat use. No trees will be removed and no cavities observed in trees adjacent to project areas |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|-----------------------------|-------------------|---|--|--|--|
| Sonoma tree vole | SSC | North coast fog belt from Oregon border to Sonoma County; in Douglas-fir, redwood, and montane hardwood-conifer forests | Yes | No | No impact; cultivation area within 200 feet of Douglas fir habitat, but best habitat potentially in drainages where microclimate may remain cooler and moister |
| North American porcupine | None | Requires forest with understory of herbs, grasses, shrubs; prefers open stands of conifers | Yes | No | No impact; likely occurs in the general vicinity due to quality foraging habitat |
| pallid bat | SSC | Prefers rocky outcrops, cliffs, crevices with access to open habitats for foraging; day roosts in caves, mines, hollow trees, buildings | No | No | No impact; no suitable habitat |
| silver-haired bat | None | Forest dwelling species, feeding over streams and open brushy areas; roosts in trees, snags, crevices | Yes | No | No impact; likely forages in forested areas of parcel |
| hoary bat | None | Prefers open habitats or habitat mosaics with open areas or edges for feeding | Yes | No | No impact; this species may utilize roads for foraging or movement |
| long-eared myotis | None | Prefers habitat edges, open habitats for foraging; roosts in buildings, under bark, snags | Yes | No | No impact; likely forages at forest edges |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|------------------------|-------------------|--|--|--|--|
| little brown bat | None | Prefers habitat edges, open habitats for foraging; roosts in buildings, under bark, snags | Yes | No | No impact; likely forages at forest edges, along roads |
| fringed myotis | None | Uses open habitats, open forests for foraging; roosts in caves, mines, buildings, crevices | Yes | No | No impact; likely forages along roads, at forest edges |
| long-legged myotis | None | Uses open habitats for foraging, utilizing denser woodlands and forests for cover | Yes | No | No impact; likely forages along roads, at forest edges |
| Yuma myotis | None | Utilizes open forests and woodlands for foraging, close to water | No | No | No impact; likely forages along watercourses, forest edge |
| HERPETOFAUNA | | | | | |
| western pond turtle | SSC | A thoroughly aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation | No | No | No impact; there is no habitat for this species on the parcel; the nearest habitat expected in SF Trinity River, approximately 3.5 miles east |
| Pacific tailed frog | SSC | Inhabits cold, clear, permanent rocky streams in wet forests; restricted to perennial streams. Suitable habitat in most waterways; known from Prairie Creek SP to King Range NCA | No | No | No impact; there is no habitat for this species in the project areas; the nearest potential habitat likely to be in the headwater region or portions of Big Creek and tributary watercourses |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|---------------------------------|-------------------|---|--|--|---|
| foothill yellow- legged frog | SC | Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Need at least some cobble- sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis | No | No | No impact; there is no habitat for this species, which requires permanent watercourse with rocky substrate; the nearest habitat likely in Big Creek and tributaries, as well SF Trinity River |
| Del Norte salamander | WL. | Terrestrial, moist habitats with talus present; eggs laid underground | No | No | No impact; there is no habitat on the parcels; nearest habitat likely in vicinity of talus slopes |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|-----------------------------------|-------------------|--|--|--|--|
| southern torrent salamander | SSC | Coastal redwood, Douglas-fir, mixed conifer, montane riparian, and montane hardwood- conifer habitats; Old growth forests. Cold, well-shaded, permanent streams seepages/springs, splash zone or on moss-covered rocks within trickling water. Known to occur within rivers and creeks from Prairie Creek SP to the Mattole River; suitable habitat is likely present within most flowing streams and seeps within Humboldt County | No | No | No impact; there is no habitat for this species in the project areas; the nearest potential habitat likely to be in the headwater region or portions of Big Creek and tributary watercourses |
| FISH | | | | | |
| summer-run steelhead trout | SC (E) | Cool, swift, shallow water & clean loose gravel for spawning, and suitably large pools in which to spend the summer. Enter Mattole River between March and June | No | No | No impacts; expected in SF Trinity River |

| Common Name | Listing Status | General Habitat Description | Presence of Suitable Habitat w/in Site? | Potentially Impacted by Project? | Comments |
|--------------------------|-------------------|---|--|--|---|
| coast cutthroat trout | SSC | Prefer coastal estuaries, lagoons, and small low- gradient coastal streams; at southern edge of range | No | No | No impacts; this species expected closer to coast and mainstem Trinity River, also SF Trinity River |
| Chinook salmon | SC(E) | Native anadromous fish in decline on west coast. Spawn in streams and rivers then move to ocean as adults; status applies to rivers and streams south of Klamath River to Russian River | No | No | No impacts; expected in SF Trinity River |
| INSECTS | | | | , | |
| western bumble bee | SC (E) | Open grasslands, meadows | No | No | No impacts; expected in extensive grasslands |

State:

FP Fully protected (legally protected)

SC Candidate: (T)hreatened or (E)ndangered

SE Endangered (legally protected)

SSC Species of special concern (no formal protection other than CEQA consideration)

ST Threatened (legally protected)

Federal:

FE Endangered (legally protected)

FT Threatened (legally protected)

FP Proposed: (T)hreatened or (E)ndangered

Species, or their sign, observed during the survey are summarized below. There were no special status species detected. Due to the late season site visit no migratory birds were present.

Table 4. Species detected at APNs 317-055-001 and 317-055-009 on November 25th, 2019

| Common Name | Scientific Name | Federal/ State Listing | Detection Method |
|---------------------------|-------------------------|------------------------------|------------------|
| red-tailed hawk | Buteo jamaicensis | None | visual |
| northern flicker | Colaptes auratus | None | auditory |
| hairy woodpecker | Leuconotopicus villosus | None | visual |
| red-breasted sapsucker | Sphyrapicus ruber | None | visual |
| common raven | Corvus corax | None | visual |
| red-breasted nuthatch | Sitta canadensis | None | visual |
| Steller's jay | Cyanocitta stelleri | None | visual |
| chestnut-backed chickadee | Poecile rufescens | None | visual |
| Oregon junco | Junco hyemalis | None | visual |
| yellow rumped warbler | Setophaga coronata | None | visual |
| Douglas squirrel | Tamiasciurus douglasii | None | visual |
| western gray squirrel | Sciurus griseus | None | visual |

Wildlife Species Accounts - Potential Impacts or Effects

The following species were noted either by CNDDB as having historically occurred in the area or have the potential to occur due to habitat.

Northern spotted owl

Regulatory Status: The northern spotted owl is a Federal and State Threatened species.

Habitat Requirements and Natural History: This species is an uncommon, permanent resident that resides in dense, old-growth, multi-layered mixed conifer, redwood, and Douglas-fir habitats. Breeding occurs in early March through June, with young independent and dispersing by September/October.

Potential for Occurrence within the Project Area: There is an NSO ACs within the 1.3-mile analysis buffer of the proposed project (Figures 6, 7), the nearest available nesting habitat. However, due to the existence of habitat (ACs) within the required analysis buffer, and the recent activity, preconstruction surveys may be required CDFW.

Short Term Project Impacts - Construction

The construction of hoophouses is a short-term disturbance; no other construction will be occurring on the parcels.

Direct Effects: No direct impacts.

Indirect Effects: No indirect impacts.

Determination: No impacts.

Ongoing Activity Impacts - Cannabis

Northern spotted owls appear to be nesting approximately one-mile northeast of the nearest proposed project site, foraging expected in vicinity of AC, the nearest potential nesting habitat.

Direct Effects: If NSO are present in the area for either foraging or nesting, noise and light pollution would have the most potential to impact this species. The project as described eliminated the potential for light pollution. The only lights will be in the nursery and these would be equipped with blackout tarps. Noise would come from human activity and generators housed in noise-reducing containment. The project most likely meets the Humboldt County threshold of being under 50 dBs at the edge of NSO habitat.

Indirect Effects: No indirect impacts as project will not use any rodenticides.

Determination: The project as described will have less than significant impacts on northern spotted owl. The project will not impact any NSO habitat. No light pollution is expected, and project noise is expected to be less than 50 dBs at the edge of foraging habitat.

V. Management Recommendations

- All generators in use will require noise-reducing containment with ventilation
- Strict adherence to Riparian Setback Requirements for Humboldt County and State Water Board are required to maintain quality habitat for amphibians and anadromous fish.
- Propagation (nursery) hoophouses utilizing early-season, low impact lighting will require tarps to block all potential light pollution from at least one hour prior to sunset through at least one hour past sunrise.
- No use of plastic support netting. This plastic netting is a hazard to all forms of wildlife and is not
 to be used. CDFW recommends using netting of natural materials such as jute or hemp, with no
 welded seams.
- No rodenticides shall be used.
- Human waste disposal needs addressed on the parcels.

VI. References Cited

- California Natural Diversity Database (CNDDB). 2020. Rare Find 5 [Internet]. California Department of Fish and Wildlife [Version 5.2.14]. Accessed January 2020.
- California Wildlife Habitat Relationships (CWHR). 2020. California Department of Fish and Wildlife [Internet] https://www.wildlife.ca.gov/Data/CWHR/Life-History-and-Range
- California Fish Database. 2004. USDA-Forest Service, Pacific Southwest Region. McClellan, CA. Website: http://calfish.ucdavis.edu/location.
- Google Earth Pro. 2020. Aerial historical imagery 1993-2019. Website https://www.google.com/earth/. Accessed December 2019.
- Humboldt County. 2018. Final Environmental Impact Report for the Amendments to Humboldt County Code Regulating Commercial Cannabis Activities. Humboldt County Planning and Building Department. Eureka, CA.
- United States Fish and Wildlife Service (USFWS). (Revised) 2012. Protocol for Surveying Proposed Management Activities That May Impact Northern Spotted Owls.
- United States Fish and Wildlife Service (USFWS). 2008. Attachment B: Take and Avoidance Analysis-Interior. Protocol for Surveying Proposed Management Activities That May Impact Northern Spotted Owls.

Appendix A: Photos taken November 25, 2019

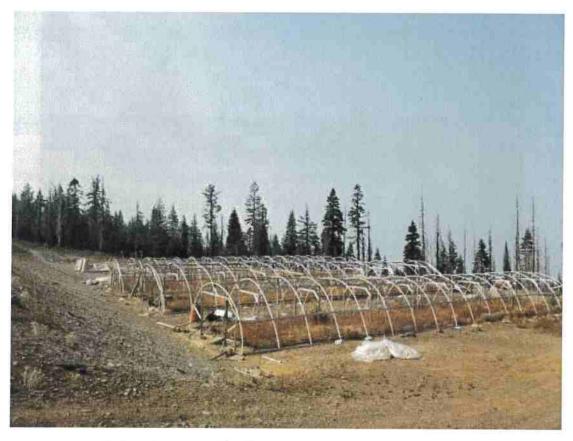


Photo 1. Cultivation Site #1 (APN 001) "Black Fox Cultivation Site"



Photo 2. Cultivation Site #1 (APN 009)

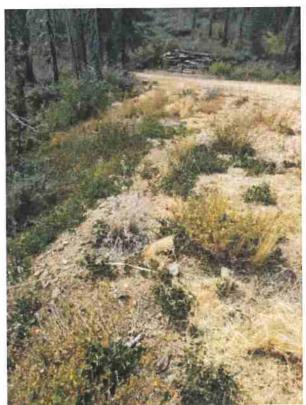


Photo 2a. Measurement to watercourse, origin



Photo 2b. Measurement terminus (>200 ft)



Photo 3. Cultivation Site #2 (APN 009)

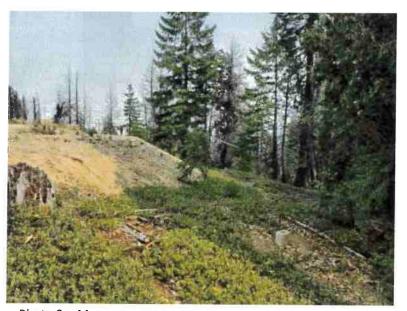




Photo 3a. Measurement to watercourse, origin (in tree, center) Photo 3b. Measurement terminus (>200 ft)

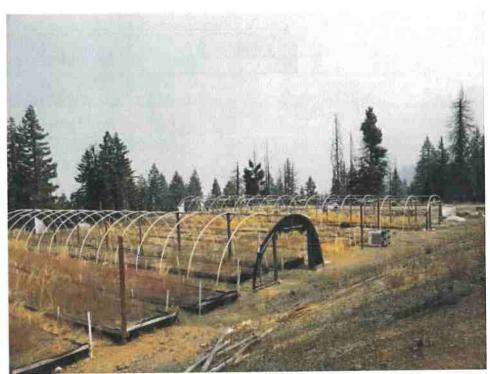


Photo 4. Cultivation Site #3 (APN 009)

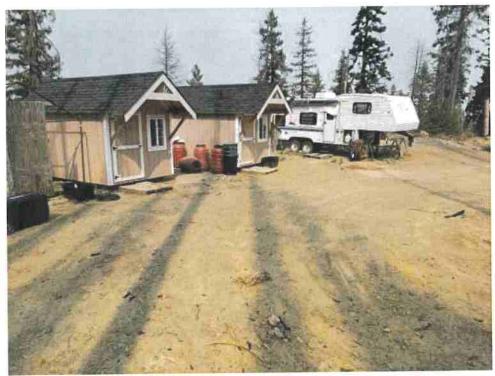


Photo 5. Infrastructure in vicinity of Cultivation Site #3 (APN 009)

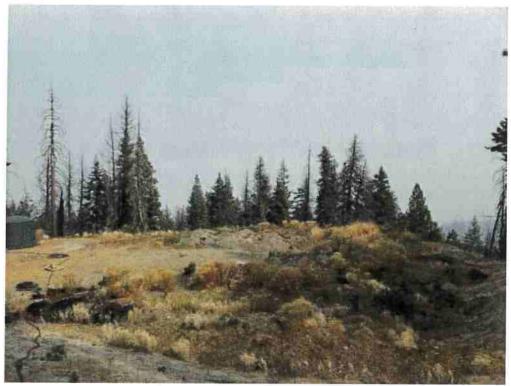


Photo 6. Cultivation Site #4 (APN 009)



Photo 6a-c. Straw waddle on edge of cultivation flat, to be replaced where no longer functioning



Photo 7. Cultivation Site #5 (APN 009)



Photo 8. Cultivation Site #6 (APN 009) Upper and Lower

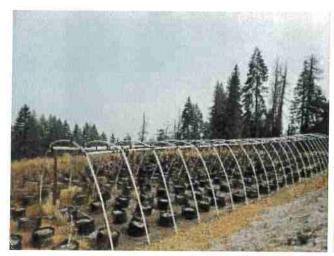




Photo 9. Cultivation Site #7 (APN 009) Upper and Lower



Photo 10. Cultivation Site #8 (APN 009)



Photo 11. Cultivation Site #9 (APN 009)

Appendix B: Well Completion Report – APN 317-055-001

INCLICATION

State of California Well Completion Report Form DWR 188 Submitted 10/18/2019 WCR2019-014838

OCT 2 1 2019

HUMBOLDT CO. DIVISION OF ENVIRONMENTAL HEALTH

| Owner | 'a Wel Nur | EUC# | | | Date Work | Began | 10/01/201 | 9 | Dail | n Work End | ed 10/01/2019 | | | |
|--------------------------|---|----------------------------------|----------------|----------------|------------------------------------|----------|-------------------------------|---|-------------------------|---|----------------------------------|--|--|--|
| Local F | auny yden | су Н | ambokli County | Department of | Health & Human S | iervices | - Land Use | Program | | | | | | |
| | dary Fermit | | | | Permit N | | 18/20-013 | | | Permit D | ate 06/20/2019 | | | |
| - | | (mus | remain co | onfidential | pursuant to | Water | Code 13 | 3752) | PI | anned U | se and Activity | | | |
| Name | | | | | | | | | Activity | New Well | | | | |
| Mellin |) Address | | | | | | | | Planned U | | er Supply Infigation - | | | |
| City | | | | | Stata | _ | 000 | - | | Agalo | allure | | | |
| Oily | | | | | DIBIG | | Zip | | | C. S. | 100 | | | |
| | | | - Alliano | | Well | Loca | tion | | | | | | | |
| Addres | 55 | | | | | | | APN | | | | | | |
| Cly | | | | Zīρ | County | Humb | oldt | Town | - | 03 N | | | | |
| Lafand | B 40 | 38 | 26 2602 | N Long | lude -123 | 34 | 52 5432 | W Rang Secti | Range C6 E Socilon H | | | | | |
| | Dag. | Min | Sec. | | Deg. | 149n. | Sec. | okit | | | | | | |
| Dec. L | ec. Let. 40.857297 Dec. Long. 123.581292 Ground Surface Elevation | | | | | | | | | | OKAT . | | | |
| Vortica | Datum | | | Harizonte | Datum WGSB | 4 | Elevation Accuracy | | | | | | | |
| Localia | in Accuracy | | | Location Deter | minution Method | | | Elen | stian Delam | ination Me | hod | | | |
| | | Во | rehole info | rmation | | ٦ſ | Wat | er Leve | l and Yi | eld of C | ompleted Well | | | |
| Orlente | dion Vert | cai | 3101111111111 | | Specify | 110 | Depth so firet | | 160 | ************ | ot below surface) | | | |
| Drilling | Method 1 | Direct Ro | ilary | Orilling Fluid | Mr | 11 | Deput to Sina Valor Level | C - | 160 (Fe | nti Dato | Measured 10/01/2019 | | | |
| | | Miles and | | | The series of | | stimated Yle | 15" | 10 (GF | | | | | |
| | epth of Bor | - | | | -cet | - 11 | est Length | | - | uns) Total | | | | |
| Total D | upth of Con | iploted i | Vell 200 | | eet | | May not be o | apresenta: | live of a wel | rs long tem | | | | |
| | | | | | Geologic L | og - F | ree Form | n | | | | | | |
| Su | h from rface to Fout | | | | | C | Description | | | | | | | |
| 0 | 0 10 Brown top soil | | | | | | | | | | | | | |
| 10 | 40 | Red Cla | ly . | | , Lagran, | | | | | | | | | |
| 40 | dB | Brown I | Rock | | | | | | | | | | | |
| 80 | 500 | Blue rock with streaks of quartz | | | | | | | | | | | | |
| | | | | | Ca | sings | 3 | *************************************** | | *********** | | | | |
| asing 8 | | | | | Casings Specificators | | Wall Thickness (kiches) | Outside Olameter (inches) | Boresn Type | Sion Size If any (inches) | Description | | | |
| | 0 | 200 | Blank | FVC | CD: 5.583 in. 1 Thickness: 0.37 | 5 in | 0.375 | 6.583 | Milled Slots | | 0-1905/shk pvc160-200 .032ppd | | | |
| | | | | | Annula | r Mat | erial | | | | | | | |
| Dapth Surf Fact to | ace | Fill Fill Type Details | | | | | | Filter Pac | k Size | | Description | | | |
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Form DWR 188 rev. 12/19/2017



Page 1 of 2

| | E | orehole Specifications | Certification Statement | | | | | | |
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| | | | DWR Use Only | | | | | | |
| | | | CSG # State Well Number Site Code Local Well Nu | | | | | ell Number | |
| | | | La TRS: | litude Deg/Min/Sec | N | Longitude | Deg/Mil | w w | |

Well Completion Report – APN 317-055-009

State of Celifornia Well Completion Report Form DWR 188 Submitted 10/15/2019 WCR2019-014536

| Owners | Yyell Num | | - | | | Date Work | | | | D. | ale Wo | wk Ended | 10/04/ | 2019 | |
|---------------------------|-------------|--------------|--|------------------|--|-----------|---------|---|-----------------|---------------|--------------|-----------------------------------|-----------------|--------------|-----------|
| | ınıll Agen | | aldt County | Departr | ment of Health | & Human | Sorvice | s - Land Use Pro | green | | | | | | - |
| Seconda | ary Permit | Agency - | | | | Permit | Numbe | r 18/19-0326 | | | P | emit Date | 10/16/ | 2018 | |
| Well | Owner: | (must re | main co | nfide | ntial purs | uant to | Wate | r Code 137 | 52) | P. C. | lann | ed Use | and A | člivit | V William |
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| City | | - Marin | SOLD CO. | | | State | | Zip | ! | | | | - 2 | | |
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