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Biological Assessment

Steve Early Cannabis Cultivation Site Relocation APN: 217-251-003

> Prepared by Corrina Kamoroff 4/27/2023

For Hohman and Associates Forestry Consultants

Signature: Com Kamoroff

Date: 4/27/2023

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1. Summary

This Biological Assessment was prepared on behalf of Steve Early proposing the relocation of less than an acre of cannabis cultivation to an environmentally superior site on APN: 217-251-003. The current location of the existing cannabis cultivation is activity impacting sensitive riparian habitat. The relocation site (see attached map) is an open grassland that is surrounded by oak woodland. This document assesses habitats and potentially occurring special-status plants and animals. This document also identifies potential impacts of the proposed operations on biological resources. This assessment also recommends mitigation needed to reduce potential impacts to less-than-significant levels.

The property is designated as AE-B-5 (160) and TPZ and is located approximately 2.5 miles northwest of Blocksburg, California, and is accessed via private roads off of Alderpoint Road. which has the potential to support numerous special status animal species (details are provided in Section 4.3 Special Status Animals). A table summarizing all mitigation measures recommended to reduce biological impacts to less-than-significant levels can be found in Section 5.2.

2. Introduction

2.1 Project Description

Steve Early is proposing the relocation of less than 1 acre of outdoor cannabis cultivation to an environmentally superior site for relocation. The existing or historic cannabis cultivation is inadequately separated from water courses and riparian habitat. Utilization of the proposed relocation site shall be incompliance with terms and conditions set forth by the Humboldt County Planning Department. The biological resources were surveyed and assessed on April 24, 2023 by Biologist, Corrina Kamoroff.

2.2 Setting

The relocation site project is located in in Sections 09, T2S, R5E, HB&M, Humboldt County from the Black Lassic 7.5' USGS Quad Map. The property is located approximately 2.5 miles northwest of Blocksburg, California, and is accessed via private roads off of Alderpoint Road. Vegetation on the property consists of grasslands, oak woodlands, and Douglas fir timberland. The property has a primarily south facing aspect with an elevation range approximately 2,200' to 3,200' above sea level. The project area contains un-named watercourses and portions of Cooper creek which is a tributary to the Eel River.

2.3 Zoning

The parcel is zoned for AE-B-5 (160) and TPZ.

2.4 Qualifications

The Biological Assessment for this project was conducted by Corrina Kamoroff. Corrina Kamoroff is a Wildlife Biologist for Hohman and Associates Forestry Consultants. Corrina received her B.S. in Evolution, Ecology and Biodiversity from University of California, Davis and her M.S. in Natural Resources with a concentration in Wildlife from Cal Poly Humboldt. Corrina has over 8 years of wildlife experience in Northern California, including over four years conducting biological surveys and evaluating potential impacts in fulfillment of CEQA requirements.

2.5 Terms

- **Biological Assessment Area (BAA):** The area evaluated for potential impacts to biological resources, defined in this document as the property area surrounded by a 1.3 mile buffer.
- **Biological Habitat Assessment:** Referring to this document, a review of potential impacts to biological resources that informs agency review of discretionary projects subject to CEQA.
- California Department of Fire (CDF) Sensitive: Species that warrant protection during timber harvest operations, listed in California Forest Practice Rules.
- **California Environmental Quality Act (CEQA):** A state environmental law that applies to discretionary projects subject to state agency review. The purposes of CEQA include disclosing environmental impacts, minimizing environmental damage, and involving the public.
- California Endangered Species Act (CESA): A state law that prohibits "take" of species protected by CDFW, including Threatened, Endangered, and Candidate Species.
- California Department of Fish and Wildlife (CDFW): A trustee agency that protects California's fish and wildlife resources.
- **California Native Plant Society (CNPS):** A non-profit organization dedicated to preserving and protecting native plants and their habitats. CNPS provides protocols and information relevant to plant conservation, including rankings of rare plants recognized by CDFW.

Endangered: Taxa in immediate jeopardy of extinction in all or part of their range.

Federal Endangered Species Act (FESA): A federal law enacted in 1973 that protects species listed as Threatened or Endangered by the U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS).

Fully Protected (FP): Take of species is strictly prohibited by CDFW.

- **NatureServe:** A non-profit dedicated to providing scientific information to support informed decisions. NatureServe provides information on species and rankings of rare species (see Attachment D).
- **Special Animals:** All animals tracked by CDFW, including threatened, endangered, rare, sensitive, and otherwise vulnerable species.
- **Species of Special Concern (SSC):** Species considered by CDFW to be vulnerable because of declining populations, limited range, or other threats.

Threatened: Taxa likely to become endangered in the foreseeable future.

3. Methods

3.1 Biological Assessment Area

The Biological Assessment Area (BAA) for this project includes a 1.3-mile buffer area around the property. The assessment considers off-site impacts to habitats and species that may be in the BAA buffer area. Consideration of offsite impacts in the BAA is potentially relevant to sensitive species and habitats downslope or downstream of operations (e.g. riparian habitat or salmonids), and to species that require a large range and may be sensitive to disturbance (e.g. the northern spotted owl).

3.2 Database Search

A list of special-status animal species was downloaded from CNDDB for the Blocksburg 9-quad area. Potential habitats on the parcel and within the Biological Assessment Area (BAA) for species occurring in the in the 9-quad areas were evaluated. The potential for the project to impact each species was evaluated based on the potential for the species to occur in the area of impact and sensitivity of the species to potential loss of habitat, disturbance, or other effects of operations. Surveys and mitigations needed are specified for species that could incur significant impacts. See attached maps.

3.3 Field Surveys

The site was evaluated for potential habitat value to protected, endangered, threatened, rare, and sensitive species by walking around the project area to observe species, habitat types, and quality. Habitat and potential impacts were evaluated during visits to the cultivation site on 4/24/2023. Table 5.2 provides a list of surveys and mitigation measures needed to reduce the potential impact of the project on biological resources to less than significant. See attached maps at the end of the report.

4. Results

4.1 Summary of Findings and Conclusions

No sensitive animal species were observed during the site visit. If sensitive plant species are observed appropriate protection measures will be put in place. The proposed project falls within the range of the Northern Spotted Owl (NSO). Potential habitat exists on the parcel and in the surrounding area for the NSO. One NSO Activity Center (HUM1140) has been documented approximately 0.5 miles of the proposed relocation site will not alter or remove any NSO habitat. NSO surveys have been conducted for a neighboring NTMP and no new NSO sites have been documented within 1.3 miles of the project location (see attached data at the end of the report). Mitigation measures have been proposed for each potentially significant biological impact of current and planned operations on the property. Relevant mitigation measures for the impacts discussed in this report are listed in parentheses (e.g. BIO-1, BIO-2, etc.), and these mitigation measures can be found in the table of Section 5.1.2 Mitigation for Potentially Significant Impacts.

4.2 Habitats

4.2.1 Upland Communities

The parcel is located on a south/southwest facing hillside with a mix of open grasslands, oak woodland and fir.

4.2.2 Wetland and Riparian Communities

The parcel contains numerous un-named watercourses and portions of Cooper creek which is a tributary to the Eel River.

4.3 Special Status Animals

Special status animals evaluated in this report include animal taxa listed or proposed for listing under Federal and State Endangered Species Acts, CDFW Fully Protected, CDFW Watch List, CDFW Species of Special Concern, California Department of Forestry and Fire Protection Sensitive Species, and other special species and other taxa tracked by CDFW. Impacts to special status animals are evaluated in this section based on their likelihood of occurrence in the area, habitat and life-history needs, and sensitivity to operations. Likelihood of inhabiting the area was based on documented occurrences in the Blocksburg 9-quad area (Tables 1-5), and availability of potential habitat. Details on potentially occurring taxa, potential impacts, and surveys and mitigations needed for these animals can be found in Section 4.3.2 Potential Impacts to Special Status Animals.

4.3.1 Special Status Animals Documented by CNDDB in the Blocksburg 9-Quad Area

Scientific Name	Common Name	Federal	State Status	CDFW	GRank	SRank	Potential to occur On-Site	
		Status		Status				
Ascaphus truei	Pacific tailed frog	None	None	SSC	G4	S3S4	Unlikely	
Rana aurora	Northern red-legged frog	None	None	SSC	G4	S3	Unlikely	
Rana boylii pop. 1	Foothill yellow-legged frog - north coast DPS	None	None	SSC	G3T4	S4	Unlikely	
Rhyacotriton variegatus	southern torrent salamander	None	None	SSC	G3?	S2S3	Unlikely	
Accipiter cooperii	Coopers hawk	None	None	WL	G5	S4	Yes	
Accipiter gentilis	northern goshawk	None	None	SSC	G5	S3	Yes	
Aquila chrysaetos	golden eagle	None	None	FP WL	G5	S3	Yes	
Falco peregrinus anatum	American peregrine falcon	Delisted	Delisted	FP	G4T4	S3S4	Yes	
Icteria virens	yellow-breasted chat	None	None	SSC	G5	S3	Unlikely	
Pandion haliaetus	osprey	None	None	WL	G5	S4	Yes	
Setophaga petechia	yellow warbler	None	None	SSC	G5	S3S4	Yes	
Strix occidentalis caurina	Northern Spotted Owl	Threatened	Threatened	-	G3G4T3	S2	Yes	
Empidonax traillii	willow flycatcher	None	Endangered	-	G5	S3	Yes	
Empidonax traillii brewsteri	little willow flycatcher	None	Endangered	-	G5T3T4	S3	Unlikely	
Entosphenus tridentatus	Pacific lamprey	None	None	SSC	G4	S3	No	
Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	Threatened	Threatened	-	G5T2Q	S2	No	
Oncorhynchus mykiss irideus pop. 48 steelhead - northern California DPS summer- run		Threatened	Endangered	-	G5T2Q	S2	No	
Oncorhynchus mykiss irideus pop. 49 steelhead - northern California DPS winter- run		Threatened	None	-	G5T3Q	S3	No	
Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threatened	None	-	G5T2Q	S2	No	
Bombus caliginosus	obscure bumble bee	None	None	-	G2G3	S1S2	Yes	
Bombus occidentalis western bumble bee		None	Candidate Endangered	-	G3	S1	Yes	
Arborimus pomo	Sonoma tree vole	None	None	SSC	G3	S3	Unlikely	

Pekania pennanti	Fisher	None	None	SSC	G5	S2S3	Yes
Corynorhinus townsendii	Townsends big-eared	None	None	SSC	G4	S2	Yes
	bat						
Emys marmorata	western pond turtle	None	None	SSC	G3G4	S3	Unlikely

4.3.2 Potential Impacts to Special Status Animals

1. Pacific Tailed Frog (Ascaphus truei)

Status: CDFW "Species of Special Concern"

Key Habitat: Found in riparian areas where there are clear, cold swift-flowing mountain streams; sometimes found near water in damp forests or in more open areas in cold, wet weather. Key habitat components within cold swift-flowing streams are plunge pools and rocky substrates where tadpoles cling to surfaces with large sucker like mouth while eggs are attached to downstream side of rocks.

Status within Plan Area and BAA: Habitat exists within BAA along the class I, II & III watercourses; however, no streams or riparian areas will be impacted by the proposed project.

Mitigations: Habitat for the Pacific Tailed frog will not be impacted by the proposed project. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

2. Northern red-legged Frog (Rana aurora)

Status: CDFW "Species of Special Concern"

Key Habitat: Found in riparian areas and permanent bodies of relatively quiet water such as ponds, pools along streams, reservoirs, springs, lakes and marshes.

Status within Plan Area and BAA: Habitat exists within BAA along the class I, II & III watercourses; however, no streams or riparian areas will be impacted by the proposed relocation site.

Mitigations: Habitat for the Northern red-legged frog will not be impacted by the proposed project. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

3. Foothill yellow-legged Frog (Rana boylii)

Status: CDFW "Species of Special Concern"

Key Habitat: Prefers watercourses with bedload materials composed primarily of sand and gravels while larger rocks are sought out for cover. Regardless of season this frog is rarely found far from permanent water. Tadpoles require water for at least three to four months while completing aquatic development.

Status within Plan Area and BAA: Habitat exists within BAA along the class I, II & III watercourses; however, no streams or riparian areas will be impacted by the proposed relocation site.

Mitigations: Habitat for the Foothill yellow-legged frog will not be impacted by the proposed project. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

4. Southern torrent salamander (*Rhyacotriton variegatus*)

Status: CDFW "Species of Special Concern" **Key Habitat:** Found in coastal forests of northwestern California, relatively common in preferred habitats of cold, well shaded permanent streams and spring seepages within redwood, Douglas-fir, mixed conifer, montane riparian, and montane hardwood-conifer forests.

Status within Plan Area and BAA: Habitat exists within BAA along the class I, II & III watercourses; however, no streams or riparian areas will be impacted by the proposed relocation site.

Mitigations: Habitat for the Southern Torrent salamander will not be impacted by the proposed project. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

5. Cooper's hawk (Accipiter cooperii)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act Family: Accipitridae

Habitat/Life-history Requirements: Cooper's hawks are common year-round residents in wooded areas of California, and they can be found in urban and suburban areas as well (Cornell Lab). The raptor commonly nests in riparian and lowland habitats throughout much of Humboldt County (Hunter et al. 2005). The medium-sized hawk builds nests made of piles of sticks over two feet wide in tall trees, typically 25-50 feet off the ground (Cornell Lab). Nesting trees include pines, oaks and Douglas firs (Cornell Lab). Dense stands are typically used for nesting and patchy open areas are commonly used for hunting (Zeiner et al. 1988). Potential Impact: No known nest sites are located within 0.5 miles of the proposed relocation site. Additionally, no tree removal or habitat disturbance is proposed. The project is not expected to impact the species.

6. Northern goshawk (Accipiter gentilis)

Special Status: CDFW Species of Special Concern; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G5, S3

Family: Accipitridae

Habitat/Life-history Requirements: The northern goshawk inhabits mature coniferous and mixed-coniferous forests that provide suitable nesting structures and adequate prey for this large hawk (Shuford and Gardali 2008). The northern goshawk builds nests that are 3-4 feet long (Cornell Lab) in stands of large trees with high canopy closure and an open understory (Shuford and Gardali 2008). Northern goshawks are known to breed in the Klamath and Inner North Coast Ranges (Hunter et al. 2005). They have also been spotted in the southwestern area of the county (Hunter et al. 2005). The northern goshawk is sensitive to disturbance, and aggressive toward intruders near their nest. They typically nest in wild forested areas, away from human-caused disturbances (Cornell Lab).

Potential Impact: The area could provide habitat for the northern goshawk. There are no nearby occurrences in CNDDB and no tree removal is proposed as part of the project. The proposed relocation is not expected to impact the species.

7. Golden eagle (Aquila chrysaetos)

Special Status: CDFW Fully Protected and Watch List; Protected under Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act **Family:** Accipitridae

Habitat/Life-history Requirements: The golden eagle is an uncommon migrant and yearround resident (Zeiner et al. 1988). The golden eagle typically utilizes open habitats away from human environments (Sibley 2003). Small mammals are the primary prey for the golden eagle (Sibley 2003). One of the largest raptors in North America, the golden eagle builds massive nests, about 6 feet across (Cornell Lab). Nests are typically located on cliffs, but may also be found on trees, man-made structures, or on the ground (Cornell Lab). Potential Impact: There are no nearby occurrences in CNDDB and no tree removal is proposed as part of the project. The proposed relocation is not expected to impact the species.

8. American peregrine falcon (Falco peregrinus anatum)

Special Status: Federally Delisted, State Delisted, CDFW Fully Protected; Protected under Migratory Bird Treaty Act

Family: Falconidae

Habitat/Life-history Requirements: The formerly federally endangered American peregrine falcon was delisted in 1999 due to recovery (USFWS ECOS). The American peregrine falcon is an uncommon year-round resident and migrant in California (Zeiner et al. 1988). Peregrine falcons typically use cliffs and ledges near bodies of water for cover and nesting areas, but they may also nest on buildings or bridges in the city (Sibley 2003, Cornell Lab). Peregrine falcons may breed in woodland, forest, or coastal habitat (Zeiner et al. 1988). Riparian and wetland areas are important habitat yearlong (Zeiner et al. 1988).

Potential Impact: Peregrine falcons may breed in a wide variety of habitats, and they have the potential to nest in the area on suitable ledges or other structures. No likely nesting cliffs or ledges were observed in aerial photos, but they have the potential to exist in the area. The nearest occurrence mapped in CNDDB is in the nearby Miranda quad. The proposed relocation is not expected to impact the species.

9. Yellow-breasted chat (Icteria virens)

Special Status: CDFW Species of Special Concern; Protected under Migratory Bird Treaty Act

Family: Parulidae

Habitat/Life-history Requirements: The yellow-breasted chat is a CDFW Species of Special Concern. This songbird nests in dense riparian brush. The distribution of the yellow-breasted chat in Humboldt County largely follows the riparian habitat surrounding the major rivers, especially the Eel, Trinity, Klamath, and Mad Rivers (Hunter et al. 2005). The yellow breasted chat is relatively numerous in Humboldt County, whereas much of California has seen a decline in population (Shuford and Gardali 2008). Protecting riparian areas, including shrub layers, is important for the conservation of this species.

Potential Impact: The yellow-breasted chat could occur in any dense riparian brush in the surrounding BAA, but is unlikely to breed in or around the project area. No nearby occurrences are mapped in CNDDB. No impacts to the yellow-breasted chat are expected.

10. Osprey (Pandion haliaetus)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act Family: Accipitridae

Habitat/Life-history Requirements: Ospreys primarily prey on fish and they require large fish-bearing waters for hunting (Zeiner et al. 1988). Ospreys are widespread along the Trinity, Klamath, Van Duzen, Eel, and South Fork Eel Rivers in Humboldt County (Harris 2005). Ospreys typically make large nests in tall snags or trees high off the ground in open forest habitats (Zeiner et al.).

Potential Impact/Mitigation: The area could provide habitat for the Osprey. There are no nearby occurrences in CNDDB and no tree removal is proposed as part of the project. The proposed relocation is not expected to impact the species.

11. Yellow Warbler (Setophaga petechial)

Special Status: CDFW Species of Special Concern; Protected under Migratory Bird Treaty Act

Family: Parulidae

Habitat/Life-history Requirements: The yellow warbler primarily nests in deciduous riparian forest with a thick brush understory (Zeiner et al. 1988, Lowther et al. 1999). Yellow warblers are often associated with riparian willow thickets, but may also be found in thick brushy understories of coniferous forests (Zeiner et al. 1988), or hedgerows in human-influenced environments (Lowther et al. 1999). The yellow warbler primarily feeds on insects and other arthropods (Lowther et al. 1999). The songbird is threatened by removal of riparian habitat and brood parasitism by the brown-headed cowbird (Lowther et al. 1999). Potential Impact: The yellow warbler could occur in dense understory or brush in the area. No native brush habitat is proposed, and as a result the relocation project is not expected to impact the species.

12. Northern spotted owl (Strix occidentalis caurina)

Special Status: Federally Threatened, California Threatened, CDFW Species of Special Concern, Protected under Migratory Bird Treaty Act

Family: Strigidae

Habitat/Life-history Requirements: Northern spotted owls typically nest or roost in multilayered, mature coniferous forest with high canopy closure, large overstory trees, and broken-topped trees or other nesting platforms (USFWS 2012). Confirmed breeding areas are widespread throughout Humboldt County (Hunter et al. 2005). Northern spotted owls may use a broad range of habitats for foraging. Their favored prey, the dusky-footed woodrat (*Neotoma fuscipes*), typically inhabits the forest edge (Harris 2005).

Potential Impact: USFWS protocol surveys are needed for any activity that may modify nesting, roosting, or foraging habitats for northern spotted owls (USFWS 2012). Potential habitat has been mapped on the property and surrounding BAA. The nearest documented Activity Center (HUM 1140) is ~0.5 miles from the proposed relocation site. The project will not modify potential nesting/roosting habitat but ground disturbing activities may cause disturbance to the species. Neighboring harvest plan (1-12NTMP-001 HUM) have conducted NSO surveys in the area and no know Activity Centers has been discovered near the proposed location (see attached data). No additional NSO surveys are recommended at this time.

13. Willow flycatcher (Empidonax traillii)

Special Status: California Endangered, Protected under Migratory Bird Treaty Act Family: Tyrannidae

Habitat/Life-history Requirements: The willow flycatcher is a rare to locally uncommon summer resident that breeds in the Cascades and the Sierra Nevada (Craig and Williams 1998). The little willow flycatcher breeds in wet meadows and montane riparian habitats at 2,000-8,000 feet elevation (Craig and Williams 1998). The riparian songbird requires dense willow thickets for nesting and roosting (Bombay et al. 2003, Zeiner et al. 1988). Destruction of riparian vegetation, modification of hydrology, and nest parasitism by brown headed cowbirds are the main threats to this species (Bombay et al. 2003).

Potential Impact: Riparian willow thickets do not occur on the parcel but may occur in the surrounding BAA. The nearest CNDDB occurrence is over 5 miles away. The project is not expected to impact the willow flycatcher.

14. Little willow flycatcher (Empidonax traillii brewsteri)

Special Status: California Endangered, Protected under Migratory Bird Treaty Act Family: Tyrannidae

Habitat/Life-history Requirements: The little willow flycatcher is a rare to locally uncommon summer resident that breeds in the Cascades and the Sierra Nevada (Craig and Williams 1998). The little willow flycatcher breeds in wet meadows and montane riparian habitats at 2,000-8,000 feet elevation (Craig and Williams 1998). The riparian songbird requires dense willow thickets for nesting and roosting (Bombay et al. 2003, Zeiner et al. 1988). Destruction of riparian vegetation, modification of hydrology, and nest parasitism by brown headed cowbirds are the main threats to this species (Bombay et al. 2003). **Potential Impact:** Riparian willow thickets do not occur on the parcel but may occur in the surrounding BAA. The nearest CNDDB occurrence is over 5 miles away, along the Eel River. The project is not expected to impact the little willow flycatcher.

15. Pacific lamprey (Entosphenus tridentatus)

Status: CDFW Species of Special Concern

Key Habitat: Pacific lamprey require cool, permanent streams with a variety of substrates and structural complexity (CalFish). Lampreys are anadromous and must have unimpeded access to the ocean (CalFish).

Status within Plan Area and BAA: Permanent steams in the surrounding area could provide habitat for the Pacific Lamprey. The project will avoid significant impacts to streams on the property and in the downstream watershed.

16. Coho Salmon Southern Oregon/Northern California ESU (*Oncorhynchus kisutch pop.* 2)

Status: State Threatened, BOF Sensitive Species and Federally Threatened. The coho salmon supports valuable commercial and sport fisheries in the Pacific Northwest Region.

Key Habitat: Coho salmon utilize a variety of freshwater habitats and tolerances and requirements change with season and age. Each of the four distinct life stages, Adult, Spawning/embryo/alevin, Parr, and Smolt, require specific habitat quality.

Status within Plan Area: Permanent streams in the surrounding area could provide habitat. A Class I drainage that may provide habitat for the Coho Salmon is located within 150 feet of the project boundary.

Mitigations: The Eel River and its tributaries provide habitat for the anadromous salmonid. The project should avoid impacts to fish and other aquatic species by minimizing runoff that could affect the watershed. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species

17. Steelhead - northern California DPS summer-run (*Oncorhynchus mykiss irideus pop.* 48)

Special Status: Federally Threatened, State Endangered Family: Salmonidae

Habitat/Life-history Requirements: Steelhead are anadromous rainbow trout that migrate to the ocean as juveniles and return to freshwater habitats to spawn. The Northern California Distinct Population Segment (DPS) ranges from Redwood Creek to just south of the Gualala River, and includes the Eel River watershed (Moyle et al. 2008). Salmonids, including steelhead, require cool, clear perennial streams and rivers with structural complexity for cover and low suspended sediment. Steelhead may swim upstream in during the winter to spawn in stream segments that are not accessible to other salmonids during low flows (Moyle et al. 2008). Sedimentation is a major threat to salmonids in their early life stages. **Potential Impact:** The Eel River and its tributaries provide habitat for the anadromous salmonid. The project should avoid impacts to fish and other aquatic species by minimizing runoff that could affect the watershed. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species

18. Steelhead - northern California DPS winter-run (*Oncorhynchus mykiss irideus pop.* 49)

Special Status: Federally Threatened

Family: Salmonidae

Habitat/Life-history Requirements: Steelhead are anadromous rainbow trout that migrate to the ocean as juveniles and return to freshwater habitats to spawn. The Northern California Distinct Population Segment (DPS) ranges from Redwood Creek to just south of the Gualala River, and includes the Eel River watershed (Moyle et al. 2008). Salmonids, including steelhead, require cool, clear perennial streams and rivers with structural complexity for cover and low suspended sediment. Steelhead may swim upstream in during the winter to spawn in stream segments that are not accessible to other salmonids during low flows (Moyle et al. 2008). Sedimentation is a major threat to salmonids in their early life stages.

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19. Chinook salmon - California coastal ESU (Oncorhynchus tshawytscha pop. 17)

Special Status: Federally Threatened Family: Salmonidae

Habitat/Life-history Requirements: The Federally Threatened Chinook salmon is the largest Pacific salmonid (Moyle et al. 2008). The California Coast Evolutionary Significant Unit (ESU) is composed of Chinook spawning in watersheds ranging from Redwood Creek south to the Russian River (Moyle et al. 2008). The anadromous salmonids return to these watersheds in the fall to spawn, after the first major rains (Moyle et al. 2008). Chinook, like other salmonids, require cool, clear perennial streams and rivers with structural complexity for cover and low suspended sediment (Moyle et al. 2008). Juvenile chinook may inhabit estuaries for an extended period (Moyle et al. 2008). Chinook are particularly sensitive to temperature and water quality, and require larger cobble and coarse gravel substrate for spawning compared to other salmonids (Moyle et al. 2008). Sedimentation is a major threat to salmonids in their early life stages.

Potential Impact: The Eel River and its tributaries provide habitat for the anadromous salmonid. The project should avoid impacts to fish and other aquatic species by minimizing runoff that could affect the watershed. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

20. Obscure bumble bee (Bombus caliginosus)

Special Status: CDFW Special Animals List

Family: Apidae

Habitat/Life-history Requirements: The obscure bumble bee occupies open grassy coastal prairies and Coast Range meadows (IUCN). This long-tongued species may pollinate flowers with elongated corollas, such as Keckiella spp. (IUCN). The obscure bumblebee does not fare well in agricultural or urban/suburban environments, where it is often outcompeted by more common bumblebees (NatureServe 2017). The obscure bumblebee has declined in the San Francisco Bay area, and may be threatened by habitat loss from development (NatureServe 2017).

Potential Impact: An occurrence mapped in CNDDB overlaps the BAA. The property has the potential to support many native pollinators, and the project should take measures to minimize potential impacts.

21. Western bumble bee (Bombus occidentalis)

Special Status: State Candidate Endangered Family: Apidae

Habitat/Life-history Requirements: The western bumble bee is a generalist short-tongued forager that may be found in open habitats such as grassy areas, urban parks and gardens, chaparral and shrub areas, and mountain meadows (IUCN). Like many bumble bees, the western bumble bee nests underground in abandoned rodent holes (IUCN). The western bumble bee is threatened by disease, habitat loss and degradation, and insecticides. **Potential Impact:** An occurrence is mapped in CNDDB 2.5 miles away. The property has the potential to support many native pollinators, and the project should take measures to

minimize potential impacts.

22. Sonoma tree vole (Arborimus pomo)

Special Status: CDFW Species of Special Concern Family: Muridae

Habitat/Life-history Requirements: The Sonoma tree vole occurs along the North Coast in in old-growth and other forests, mainly Douglas-fir, redwood, and montane hardwood-conifer habitats (Zeiner et al. 1988). The small rodent specializes in feeding on Douglas-fir and grand fir needles, and typically constructs nests in Douglas-fir trees (Zeiner et al. 1988).
Potential Impact: The arboreal rodent could occur in the area, and the coniferous trees removed should be considered potential habitat. No removal of conifers will occur as part of the proposed project, and operations are not likely to affect the Sonoma tree vole. The project should incorporate measures to reduce disturbance from generator noise and lights for sensitive wildlife that may live in the surrounding coniferous forest and the Streamside Management Area.

23. Fisher (Pekania pennanti)

Status: CDFW Species of Special Concern

Key habitat: The fisher is a relative of the mink, otter and marten. The fisher inhibits old growth forests and use large areas of primarily coniferous forest with fairly dense canopies and large trees, snags and down logs. Fishers den in rotting logs, hollow trees, and rocky crevices of old growth forest. They are specialized animals that frequently travel along waterways and rest in or on live trees, snags and down logs with cavities. These characteristics are usually only found in large, undistributed tracts of old forest. Douglas-fir is the most common species used for resting in northern California. Frequently used resting structures in live trees include cavities, large branches and squirrel or raptor nest. Snags, logs and aggregations of large woody debris are also utilized. A general preference for a large tree is likely related to the more frequent presence of large lateral limbs, with areas of decay contributing to cavity formation and presence of other structural elements.

Status within the Plan Area and the BAA: The project site is within the general range of the known habitat. The present designated habitat range encompasses most of northern California, parts of Oregon and Nevada.

Mitigations: The relocation site and in particular, the SMA outside of the project area was evaluated during a site visit for any signs of past & present roosting or denning. The project proposes operations outside of the SMA. The proposed project is not expected to impact the species.

24. Townsends big-eared bat (Corynorhinus townsendii)

Status: CDFW Species of Special Concern

Key Habitat: the Townsend's big-eared bat is found throughout most of California, from desert habitats to the coastal redwood forests, and in oak woodlands. Their distribution is patchy, and is strongly correlated with the availability of caves, with populations occurring in areas dominated by cavity forming rock, and thus historic mining districts. They prefer open surfaces of caves and undisturbed spaces in buildings, bridges, tunnels, and possibly basal hollows of large trees.

Status within Plan Area and BAA: The project site is located within the general range of the known habitat. The present designated habitat range encompasses most of northern

California, parts of Oregon and Nevada. There are no known mine shafts nor maternity roosts in basal hollows of old growth trees within the project boundary.

Mitigations: Project operations will not significantly reduce habitat with important structural elements for this species on the ownership or watershed levels.

25. Western Pond Turtle (Clemmys marmorata)

Status: CDFW Species of Special Concern

Key Habitat: This species ranges from the Oregon border south to Kern County. Specific habitat includes areas of permanent water such as lakes, ponds, marshes, rivers, sloughs, and drainage ditches.

Status within Plan Area and BAA: Within the BAA there are watercourses and ponds that could provide habitat. No turtles have been observed in the watercourses near the project.

Mitigations: Habitat for the Western Pond Turtle will not be impacted by the proposed project. Relocating the cannabis cultivation sites to the proposed relocation site (see attached map) as well as the restoration of retired existing cannabis cultivation sites will improve potential habitat for the species.

4.4 Wildlife Movement and Connectivity

Riparian areas may serve as corridors for wildlife movement, and forested areas adjacent to major rivers have increased value to wildlife. It is important to maintain native vegetation communities around riparian areas that may provide cover, forage, and other value to wildlife. It is important that wildlife movement to water and through riparian areas is not impeded by fencing or materials that could cause wildlife to become entangled. Additionally, no plastic bird/deer netting should be used in cultivation because netting may become an entanglement hazard if it becomes litter in the natural environment.

5. Conclusions

5.1 Summary of Potential Impacts and Mitigations

Restoration is needed to mitigate for the reduction and degradation of riparian habitat of existing cultivation sites. The proposed relocation site is located on an open meadow surrounded by oak woodland habitat. No trees or shrubs will remove as part of the proposed site relocation. Potential Northern Spotted Owl habitat has been mapped on the property and surrounding BAA. The nearest documented Activity Center (HUM 1140) is ~0.5 miles from the proposed relocation site. The project will not modify potential nesting/roosting habitat but ground disturbing activities may cause disturbance to the species. Neighboring harvest plan (1-12NTMP-001 HUM) have conducted NSO surveys in the area and no know Activity Centers has been discovered near the proposed location (see attached data). No additional NSO surveys are recommended at this time. Additional measures have been recommended to reduce potential impacts to sensitive species and wildlife movement to less-than-significant levels. If special status species are detected, appropriate protective buffers or other mitigation measures will be established in consultation with CDFW. All additional mitigation measures recommended to reduce impacts to less-than-significant levels are listed in the table below.

5.2 Recommended Surveys and Mitigation Measures for Potentially Significant Impacts

Name	Impact	Mitigation Description
BIO-1 BIO-2	Potential disturbance of special status plants Disturbance to wildlife	A floristic Assessment was conducted by Hohman and Associates Botanist, Caitlyn Allchin on April 24, 2023. See attached Botanical Report. The applicant will follow guidelines for reducing noise pollution, which may impact sensitive
DIU-2	from noise pollution or light pollution	 species including bats, NSO, and other birds. Generator use will follow Humboldt County Performance Standards for Generator Noise. Additionally, the following measures are recommended: The generator should be contained in an insulated structure to muffle noise, and it should be kept away from SMAs. The measured generator noise at the forest edge should not exceed ambient levels (<50dB or equivalent to levels at the property edge without the generator). Temporary noise disturbances (such as running power tools) should occur during daylight hours to minimize disturbance to foraging bats or NSO. Noise levels from the project should not exceed 75dB at the forest edge during the bird breeding season (Feb. 1-Aug 31) The project should be connected to the grid and/or have solar energy installed as the main energy source by 2023.
BIO-3	Potential impacts of pesticides on pollinators	Pesticides that may be used for marijuana cultivation are limited to low-risk exempt substances and those that are broadly labeled by the Department of Pesticide Regulation. The potential impact of insecticide use on pollinators shall be reduced by not spraying in the presence of pollinators and not allowing drift to flowering plants in the surrounding area.
BIO-4	Potential wildlife entanglement in netting and fencing	No plastic bird/deer netting at should be used in cultivation sites.

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Project Location Map



CALVEG Vegetation Alliance Map of Surrounding Area



CNDDB Special Status Taxa Search Map



NSO Database Map



Project Relocation Site Map



Habitat Photos



Photo 1. Proposed Relocation Site (facing southwest) for cannabis cultivation on APN: 217-251-003. Photo: 4/24/2023



Photo 2. Proposed Relocation Site (facing northeast) for cannabis cultivation on APN: 217-251-003. Photo: 4/24/2023

Rank Definitions

Listed below are definitions for interpreting NatureServe global (range-wide) conservation status ranks. These ranks are assigned by NatureServe scientists or by a designated lead office in the NatureServe network.

- G1 Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- **G2** Imperiled At high risk of extinction or elimination due to very restricted range, very few populations, steep declines, or other factors.
- **G3 Vulnerable** At moderate risk of extinction or elimination due to a restricted range, relatively few populations, recent and widespread declines, or other factors.
- G4 Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 Secure Common; widespread and abundant.
- **G#G#** Range Rank A numeric range range (e.g. G2G3, G1G3) is used to indicate the range of uncertainty about the exact status of a taxon or ecosystem type. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

Infraspecific Taxon Conservation Status Ranks

T# Infraspecific Taxon (trimonial) – The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species. For example, a G1T2 subrank should not occur. A vertebrate animal population, (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T-rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

Subnational (S) Conservation Status Ranks

- S1 Critically Imperiled Critically imperiled in the jurisdiction because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the jurisdiction.
- **S2** Imperiled Imperiled in the jurisdiction because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation from jurisdiction.
- **S3 Vulnerable** Vulnerable in the jurisdiction due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation.
- S4 Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- S5 Secure Common, widespread, and abundant in the jurisdiction.
- S#S# Range Rank A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

Rank Qualifiers

- ? Inexact Numeric Rank Denotes inexact numeric rank; this should not be used with any of the Variant Global Conservation Status
- Q Questionable taxonomy that may reduce conservation priority Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon or type in another taxon or type, with the resulting taxon having a lower-priority (numerically higher) conservation status rank. The "Q" modifier is only used at a global level and not at a national or subnational level.

NSO Data from THP 1-20-00062-HUM



165 South Fortuna Boulevard, Fortuna, CA 95540 707-725-1897 • fax 707-725-0972 trc@timberlandresource.com

July 27, 2020

California Department of Forestry and Fire Protection Attention: Deputy Director Forest Practice 135 Ridgeway Avenue Santa Rosa, CA 95402

NSO Valid Until: 2/1/24

This amendment conforms to the rules and the regulations of the Board of Forestry and the Forest Practice Act. Reviewed by date routed cc: Unit (2), BOE, SUB, RPF

Dear Deputy Director Forest Practice:

SUBJECT:

1-20-00062-HUM - MINOR

Please find the attached 2020 NSO Data.

Results

The Bushnell THP was surveyed seven times per protocol in 2020. Surveys occurred in March, April, May, and June. Activity Center Searches (ACS) were used to status known NSO's within 1.3 miles of the THP area. HUM1139 (formerly known as SFC-2018 Pair) was detected during ACS and Status Visits. HUM1140 (formerly known as NSO-Single Male) was detected during night time surveys in the vicinity of the activity center, although not detected during the ACS or Follow-Up search.

On the third visit during night-time surveys, an NSO male was detected approximately 50' from station 9, and a female NSO was heard approximately 1,500 feet to the southeast of station 9. Following this detection, a Follow-Up search was performed with no observations. No additional detections occurred during visits 4, 5, and 6 in the vicinity of stations 8 and 9. During the 5-1-20 Follow-Up search, a small amount of white-wash was observed underneath the tree where the male NSO was seen perched the previous night. This was an incidental observation as the amount of white-wash was minimal, and does not indicate a reoccurring perching location. The area surrounding stations 9 and 8 were previously logged during a 2018 NTO under NTMP 1-99NTMP-042, and current stand basal area is approximately 75 ft2/acre. Given the current stand composition, single detection throughout the 2020 season with no detections in previous years of survey efforts, and Negative Observation status during the Follow-Up search, the detection was likely that of a foraging pair.

Summary

In summary, there are no changes to the locations of NSO's within 1.3 miles of the plan area. Additionally, no new NSO's occur within the BAA. Therefore, the Take Avoidance will follow protection measures contained within the Section II of the THP, and the Take Avoidance Assessment located in Section V.

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1-20-00062-HUM

Bushnell THP

Sincerely,

Jon Dylan Leonard, RPF #3107 Timberland Resource Consultants

4

Enclosures:

- 2020 Survey Data

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Bushnell THP





Northern Spotted Owl Search Form

Timberland Resource Consultants

Recent Night Visit#:N/A Visit Type: ACS

Ranch Project: Bushnell Date: Weather/Wind/Temp: Observer: RF JAH 0\$/02/2020 CL 10-2156"F Ow!#: Start Time: End Time: 17:40 \$ 20:18 A (If Known)

Notes: Began ridae Slowly Sear AL meand Broadcasting throug (NR) slope stara H-notes, ,histle contra mou . an 5 ecle Mountain ong detections Cr 1150 . 5

Mousing Outcome M4 M1 M5 M2 M3 M6

Long-eared Owl

Great Gray Owl

Surve	y Types:	Weathe	er codes:	Win	d codes:	Species Code:		Sex Codi	es:
ACS FUS SV	Activity Center Search Follow Up Search Status Visit	CL FG PC OC DR	Clear Fog Partly Cloudy Overcast Drizzle	12345	1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph	Northern Spotted Owl Barned Owl Great-horned Owl Western Screech Owl Northern Saw-whiet Owl Flammülated Owl Barn Owl	SPOW BADO GHOW WESO NPOW NSOW FLOW BANO LEOW	Fernale Unknown	M F U PR

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GGOW



Northern Spotted Owl Survey Form

Timberland Resource Consultants

							Visit#: 1 Visit Type: NC
Project	Bush	nell	Rand	:4			
Observer	RF			Date L	1-2	-20	Weather/Wind/Temp CI / I-Z / 45°
Start	End	SPOW CON/NC	CON Time	Species	Sex	Bearing Dis	tance Notes
	2050	NC					Creek. frogs
2055	2105	NL					frags
				_			frogs creek frogs
							colverr/creek (loud), frags
2156	2210	NC					Truck STO PPed, Ext. for interprise
				-			Crickers, inf. windgusts
2.238	2248	NL	1.1				Crickers frogs
			1			1.000	Creek
	-		1		-1		wind 2 steady crickers
							light, inf. wind gusts
2342	2352	MC					Crickets
							loud creek, inf./faint HWY.
							loud creek, crickers
A second contract of the	the second design dates						creek. inf Hwy
-		-			-		
			1				
		1.15	-		-		
	Observer 2040 2055 2120 2142 2156 2216 2238 2303 2316 2324 2342 0004 0018	B USI Observer RF Start End Z040 Z050 Z055 Z105 2120 Z130 Z142 Z152 Z156 Z210 Z216 Z2210 Z238 Z248 Z303 Z313 Z316 Z324 Z324 Z334 Z342 Z352 0004 0014 0018 0028	B USHnell Observer RF Start End SPOW CON/NC 2040 2050 NC 2055 2105 NC 2120 2130 NC 2142 2152 NC 2156 2210 NC 2156 2210 NC 2216 2210 NC 2303 2313 NC 2316 2324 NC 2316 2324 NC 2342 2334 NC 2342 2352 MC 0004 0014 NC 0018 0028 MC	B UShnell Kant Observer RF Start End CON/NC Z040 Z050 NC Z055 Z105 NC Z120 Z130 NC Z142 Z152 NC Z156 ZCC NC Z303 Z313 NC Z316 Z324 NC Z342 Z352 MC 0004 0014 NC 0018 0028 MC	B UShnell Kanch Observer RF Date Start End CON/NC CON Time Species Z040 2050 NC - - Z055 Z105 NC - - Z120 Z130 NC - - Z142 Z152 NC - - Z156 ZZ10 NC - - Z303 Z313 NC - - Z303 Z313 NC - - Z316 Z324 Z352 NC - - Z342 Z352 MC - - - 0004 0014 NC - - - <	B UShnell Kanch Observer RF Date 4-2 Start End CON/NC CON Time Species Sex Z040 2050 NC Image: species Sex Z040 2050 NC Image: species Sex Z040 2050 NC Image: species Sex Z055 Z105 NC Image: species Sex Z120 Z130 NC Image: species Sex Z141 Z152 NC Image: species Sex Z141 Z152 NC Image: species Sex Z141 Z152 NC Image: species Sex Z142 Z152 NC Image: species Sex Z156 Z210 NC Image: species Sex Z152 Z216 NC Image: species Image: species Sex Z303 Z313 NC Image: species Image: species Image: species <t< td=""><td>B ushnell Kanch Observer RF Date $4-2-20$ start End CON/NC CON Time Species Sex Bearing Dis Z040 2050 NC Image: Species Sex Bearing Dis Z055 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z141 Z152 NC Image: Species Sex Image: Sex</td></t<>	B ushnell Kanch Observer RF Date $4-2-20$ start End CON/NC CON Time Species Sex Bearing Dis Z040 2050 NC Image: Species Sex Bearing Dis Z055 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z170 Z105 NC Image: Species Sex Bearing Dis Z141 Z152 NC Image: Species Sex Image: Sex

*List all stations and note if skipped.

Survey Types: SC Spat Checks NC Night Calling SC NC TS DC Transact Surveys Day Calling

Weather codes: CL Ch FG Fo PC Pa OC Ov DR Dr Clear Fog Partly Cloudy Overcast Drizzle

Wind codes: des: 1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph 12345

Species Code: Northern Spotted Cwi Barred Owi Barred Owi Great-horned Owl Western Screech Owl Northern Pygmy Owl Rorthern Saw-what Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male M Femile F Unknown U Pair PR

SPOW

BADO

KESO NPOW NSOW FLOW BANO LEOW

GGOW

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Page 1 of 1
Page ____ of ____

Timberland Resource Consultants

		Visit#: Z	Visit Type: MC
Project Bushnell Ran	ich NTMP		
Observer RF JaH	Date 4/16/20	Weather/Win	10155°

Station	Start	End	SPOW CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes
1		2025	NC						frogs Cows
Z	2028	2038	NC						cows
4	2046	zior	NC						Truck stopped, ext to listen.
16	2118	2128	NC				711		Creek, distantelogs
15	2135	2145	NC				220		Creek
14	2147	2157	NC		- 1				Creek, Frogs
13	2200	2210	NC						frogs. creek. dugs
12	2216	2226	NC		2.2				frogs
11	2234	224	NC		12			_	Frogs creek
16	2248	2258	NC						Plane, Frogs Frogs, creek
9	2301	2311	NC				1		trogs, creek
8	2315	2325	NC					1	frogs
6	2327	2837	NC		21			1	dogs
7	2341	2358	NO	2342	BAD0	M	345	1.000	
									OW! flew of to station 2349
5	0005	0015	NC					-	dogs
	12.7	1				-			
			1.1					-	
					-	1			
E I	1.5		1 -						

*List all stations and note if skipped.

CL FG PC DR

Survey Types: SC Spat Checks NC Night Calling T3 Transect Surveys SC NC TS DC Day Calling

Wind codes: 1 1-3 mph 2 4-6 mph 3 7-9 mph 4 10-12 mph Weather codes: Clear Fog Partly Cloudy 3 4 5 Overcast Ddzzle

Species Code; Northern Spotted Owl Barred Owl Great-horned Owl Western Screach Owl Northern Pygmy Owl Northern Saw-what Owl 13-15 mph Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male M Famale F Unknown U BADO WESO Pair PR

SPOW

NSOW FLOW

BANO LEOW RECEIVED JUL 2 7 2020

COAST AREA RESOURCE MANAGEMENT

Visit Type: ACS Recent Night Visit#: Project: Bushnell Ranch NTMP Weather/Wind/Temp: 58° RF, JaH Observer: L 16, 20 101 Start Time: End Time: 2000 7 Owl #: 0 (If Known) Notes:

_	Headed SE from Trucks downedd road
_	Until Turning S off road into, Fir stand.
_	Crossed S. Foold of creek, Played 3x F. 4 note.
	recieved Con 1817 220° PR: 50'. Cont. to
	Pair. Mouse 1 to female and SPOW 1828
	F took mouse Just out of sight bridly then
	ceturned Mouse Z 1835 to Female, 18,56 mouse
	7 Poten by Primate Maise's taken by Male
	1903. After taking mouse, Male gaup (ZX) Thore
	hoots 1907 Male East mouse. Mouse 41 to fems
	1909, Mouse 5 to male gives there then after a minute Pause gives another 4 note 1915.
	a minure Pause gives another of note 1915.
	Co to female 1937. Walked Hownstream NW
	Then back N to truck
-	
-	
-	

MI	Female 1978	M4	Female	1909
M2	Female 1935	MS	Male	1915
M3	male 1903	MG	Female	1937

GGOW

Long-sared Dwi Great Gray Dwi

urvey Types:	Weather codes:	Wir	d codes:	Species Code:		Sex Con	
KCS Activity Canter Search US Follow Up Search V Status Visit		2 Iy Cloudy 3 reast 4	2-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph	Northeirs Spottad Gwl Barrad Owl Graat-hornid Owl Western Screach Dwl Northern Pygny Owl Northern Saw-whet Owl Flammulated Owl Barn Owl Long-eard Owl	SPOW BADO GHOW WESO NPOW NSOW FLOW BANO LEOW	Male Female Unknow Patr	M F m U PR

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COAST AREA RESOURCE MANAGEMENT

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Timberland Resource Consultants

								D	/isit#: 3	Visit Type: NC	
	Project	Busi	nnell	NTN	IP						
	Observe		JacH		Date 4	120	8/20	tine interest	Weather/V C_1	vind/Temp /1-2/53°	
Station	Start	End	SPOW CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes		
01	2005	2015	Ne					1	Cricker	s Songbirds frogs, creek	
					1	1			the second se		1000

01	2005	2015	NC		1.11				Cricken Songbirds Flogs, CLEOL
	2019		NC			11 1	»	1	Creek Songbirds, TTUCK Passed, ext. Tol
64	2048	2058	NC				1		Cows, frogs
16		2103	1						Creek, frogs, Plane creek, frogs GHOW
15	2120		NC				1.000	1	creek frogs GHOW
14	2133	2143	NC		1		h		creek
13		2157	1						distant generator
12	2205	2215	NC			-			Frags
i	2730	2240	NC						Frogs
10	2247	2297	NC		1.34				Frogs GHOW
9	2305	2325	Con	2306	SPOW	1000	250	50'	485 Notes M Then at 2305 F
						PR		(11)	384 notes 128° Very distant
<u>[</u>]						11		2	(1500'). Walked down road
			÷.						and found Male in Fir.
8	2330	2340	CON	2330	SPOW	M	90	1000	
No	TUBHS		1	1	- 1		1		ervard off.
	2343	2353	NC						genearor, Crickets
	2355						-		generator frogs generator (faint) crickets
5		0019		1					generator (faint) crickets
			I						
					1.27				
	to fab all	billion and notall	Feltoned				<u> </u>	-	

*List all stations and note if skipped.

Weather codes: CL Clear

CL FG PC OC DR

Surve	y Types:
SC	Spot Chacks
NC	Night Caliling
TS	Transect Surveys
DC	Day Calling

Wind codes: 1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph 123 Fog Partly Cloudy Overcest Drizzle 4 5

Species Code: Northern Spotted Ow) Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codas: Male M Female F Unknown U Pair PR

SPOW

BADO

GHOW

WESO

NPOW NSOW FLOW

BANO LEOW GEOW

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Northern Spotted Owl Search Form Timberland Resource Consultants

Recent Night Visit#: 3 Visit Type: FuS

Project: Bushinell Ko	ncl.	
Observer: R.F. JaH	Date: 5/1/20	Weather/Wind/Temp: C1 / O / 55
Owl #: ((f Known)	Start Time: 5630	End Time: 0903

Mi	Began at Station 9. Housed & listened then headed w off road into fir stand, Cont. N through ixed firs Pine Stands, Patchy habitat. Periodically housed
TUC COOC Cre	Ley wood pecker & chainsaw heard (distant). Crossed d & Cont. N. downhill into more fir & Pine. Reached pek, good habitat. Turned W. above creek. Turned
Cro Sto hear	al crossed road & cont through parchy habitat. assed road cont SW through fir/Dak Stand. apped to hoot & listen in grad habitat. Soughirds of crossed road near station & Turned St then
Stat	towards Station 7. Reached fince, Turned N towards ion 9. Stopped in good habitat to hoot; distant my machinery heard. Found white wash below ye fill 50'S of Station 9 near previous
nio	This contact turned NM & headed to

Nousing Outcome	
47	+

MI	M4	
M2.	M5	<u></u>
МЗ	Mõ	

Surve	ey Types:	Weathe	er codes:	Win	d codes:	Species Code:		Sex Code	25
ACS FUS SV	Activity Center Search Follow Up Search Status Visit	CL FG RC OC DR	Clear Fog Partly Claudy Overast Drizzia	1 2 9 4 5	1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph	Northein Spotted Oyl Barred Owl Grast-horned Owl Western Screech Owl Northern Pygny Owl Northern Synwhiet Owl Flammulated Owl Barn Owl Long-aaned Owl Sreat Gray Owl	SPOW BADO GHOW WESO NPOW NSOW FLOW BANO LEOW GGOW	Female Unknown	M F U PR

PR



Page _ of Z

COAST AREA RESOURCE MANAGEMENT



Timberland Resource Consultants

Recent Night Visit#: N/A Visit Type: SV

Project: BUSLANDELL R	anch NTMP	
Observer: RE JaH	Date: 5/21/20	Weather/Wind/Temp: CL/I-Z/57°
Owl #: (If Known)	Start Time: 1845	End Time: 2020

Started Search from road. Headed East into habitut toward AC. Beyon hooting & immediately heard response from AC. Heard both Male & Female 1920. Found pair in AC 1923. 1926 Male took M1, 1928 Female took M2, Male ate M1. Female ate M2 shortly after. 1932 Female took M3. 1936 Male took M4; both eaten. 1939 Female took M5. 1945 Male took M6 1947 Female ate M M5. 1954 Male and M6. Non-nesting status	Notes:
Inditat Toward AC. Beyon hooting & immediately heard CESPONSE from AC. Heard both Male & Female 1920. Found Pair in AC 1923. 1926 Male took M1, 1928 Female took M7. Male ate M1. Female ate M2 shortly after. 1932 Female took M3. 1936 Male took M4: both eater. 1939 Female took M5. 1945 Male took M6 1947 Female ate M \$5, 1954 Male ate M6.	Started Search from road. Headed East into
Cesponse from AC. Heard both Male & Fensale 1920. Found Pair in AC 1923. 1926 Male took M1, 1928 Fenale took M7. Male ate M1. Fenale ate M2 shortly after. 1932 Female took M3. 1936 Male took M4; both eaten. 1939 Female took M5. 1945 Male took M6 1947 Female ate M \$5. 1954 Male ate M6.	lachimi Toward AC. Bregan hooting & immediately heard
Found Pair in AC 1923. 1926 Male took MI, 1920 Female took MT. Male ate MI. Female ate MZ shortly after. 1932 Female took M3. 1936 Male took MY: both eaten. 1939 Female took M5. 1945 Male took MG 1947 Female ate M \$\$5, 1954 Male ate MG.	response from AC. Heard both Male & Female 1920.
Female took M7. Male at MI. Female at MZ shortly after. 1932 Female took M3. 1936 Male took M4! both eaten. 1939 Female took M5. 1945 Male took M6 1947 Female at M \$5, 1954 Male at M6.	Found Pair in AC 1973, 1926 Male took MI, 1920
after. 1932 Female took M3. 1936 Male took M4; both eaten. 1939 Female took M5. 1945 Male took M6 1947 Female att M \$5, 1954 Male atte M6.	Female took MT. Male at MI. Female at MZ shortly
MG 1947 Female ate M M5, 1945 Male took MG 1947 Female ate M M5, 1954 Male ate MG.	after 1932 Female took M3. 1936 Male Took M4!
MG 1947 Female att M M5, 1954 Male att MG.	both Paten, 1939 Femile took M5, 1945 Mule took
Non-nesting status	MG 1947 Female at M M 5, 1954 Male at MG.
	Non-nesting Status
	· .

Mousing	Outcome
---------	---------

MI	to Malt laten	MA TO Male Raten
M2	to Female, eaten	M5 to Female, eaten
MЗ	to Female, laten	M6 to Male earth

Survey Types: ACS Activity Center Search FUS Fallow Up Search SV Status Visit Weather codes: CL Clear FG Foir PC Partly Claudy OC Overcast DR Drizzle

Wind codes; 1 1-3 mph 2 4-6 mph 4 7-9 mph 4 10-12 mph 5 13-15 mph Species Code: Northern Spotted Owl Barred Owl Great-homed Owl Western Screach Owl Northern Fyginy Owl Northern Swa-what Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl Sex Codes: Male M Female F Unknown U Pair PR

SPOW BADO

GHOW

NPOW

NSOW FLOW BANO LEOW

GOW

RECEIVED

COAST AREA RESOURCE MANAGEMENT

Page 1 of 2



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								D	Visit#: 4 Visit Type: NC
	Project	Bush	nnell	Rav	ich	N	TM)	
	Observer	Bush RF	JaH		Date Ç	5/2	120		Weather/Wind/Temp . Cl. / I-7/55°
Station	Start	End	SPOW CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes
4		2100				11.			wind deer in brush
16		2115						÷	wind, frogs
14		2128					1		Creek
15	2132	2142	NC						Creek
13	2146	2156	NC		20				. distant creek, frogs
12		2210	1		1				Frugs Creek frugs
		2225	10 million (100 million)		-			-	creek frogs
16	2227	2237	NC		1				trogs
9	· · · · · · · · · · · · · · · · · · ·	2251				-			Creek
8	2253	2303	NC						frags
6	2305	2315	NC					1.00	Plane int. wind gusts
7		2331						·	. Wind Constant Z
5	2335	2345	NC			11	2		inf. wind gusts
2		0005		1		1Ľ			creek
1		0018					1.1		creek
	1.23					1			· · · · · · · · · · · · · · · · · · ·
17				1					
						1			
						11.1	1 2 5		
		tations and note if			1	J		1	

Survey Types: SC Spat Checks NG Night Calling TS Transect Survays Day Calling Waather codest CL Ck FG Fo PC Pa QC Ov DR Dr Clear Fog Partly Cloudy Overcast Drizzle

12345

Species Code: Northern Spotted Owl Barrad Owl Great-homed Owl Western Screech Owl Wind codes: 1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph Northern Pygmy Owl Northern Saw-what Owl Ffammulated Owl

Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male M Male M Female F Unknown U SPOW BADO GHOW WESO Pair PR NPOW NSOW

FLOW

BANO

GGOW

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COAST AREA RESOURCE MANAGEMENT

Page 1 of 2

Timberland Resource Consultants

								N	/isit#: 5 Visit Type: MC
	Project	Bus	haol	1 Ro	nch	,			
	Observer	RF	JaH		Date	6,	12/2	20	Weather/Wind/Temp , CL / 1 / 58°
Station	Start	End	SPOW CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes
5	2030	2040	NC	1.1			1.11		COW. GHOW Songbirds
G	2043	2053	NC					1 22 1.	Songbirds, dogs
7	2056	2106	NC				1		Songbirds, gunshors, Truck Passed
8	2111	2121	NC						Frogs, gunshors
9	2125	2135	NC						C. reek, Sonybirds, Plane
10		2148							Frogs GHOW
11		2202							FrogS
		2220							GHOW, Frogs
13	2225	2236	CON	2227	SPOW	V	278	600	GHOW Frogs monkey call /3 notes
15		2252							Creek, N'SOW
14	2255	2305	NC						Creek
16	2310	2320	NC						Creek
4		2333							ZTrucks Passed, Cows Frags
		0006			FE]				Creek, frogs
1		0020							Creek, frogs Crickers, Creek
							-		
				117				-	
				*					
									4
				c			122		
	*List all s	stations and note if	skipped.						

Survey	Types:
SC	Spot Checks
NG	Night Calling
TS	Transect Surveys
DC.	Day Calling

Weather codes: CL Clear FG Fog PC Partly Cloudy OC Overcast OR Drizzle

Wind codes: 1. 1-3 mph 2. 4-6 mph 3. 7-9 mph 4. 10-12 mph 5. 13-15 mph

Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male A Female I MF Unknown U Pair PR

SROW BADO

GHOW WESO NPOW NSOW FLOW

BANO

GGOW





Timberland Resource Consultants

Recent Night Visit#: 5 Visit Type: FUS

Project: Bushnell Ro	unch NTMP	
Observer: RF JaH	Date: 6/3/20	Weather/Wind/Temp: C-1/1/65
Owl #: (If Knowa)	Start Time: 1745	End Time: Z105

Notes:						-			
STA	(-ted	from	Statio	n 14.	Header	LE	IST/N	E. ON	t
					read N				
AC	Perio	dially	STOPPing	to hoot.	Somebin	ls, gr	ouse. &	TURKEY	heard.
Spart	charl	gand	habita	T NORT	n of A	16 4	-ben	hedded	
SE.	CC	osseel	road	and .	side-hillt	ci -	toward	s Stat	tion
13.	<	FTO PRAN	to h	out in	habita	T J	UST N	orth of	1
STUTY	27.	Turne	d Nor	th &	Cont. th	rough	good	habiter.	_
heavi	ty 1	managed	Fir	Stand.	Cont. the	lone &	Pepper	roocl.	
Car	Sect	CREK	hearling	Warth	Pa:	ssect	Thoras	n Smal	1
n De	CH	aline 1	approp >	heaching	back in	ro ha	birer .	Our He	aded
Wes	T	through	good	habitti	- and both of	then	North	n TO	
Stay	. in	Trees	. He	aded A	both of	Staria	n 15	TO TOP	of
DanDa	mit i	C-D Dock	tra laras	IT. E	super la	LANAT	InTh	14100	Cleating
άT	Pr	of bou	rolory 8	-road.	Mer o	mother	OLI	tech	(KYK)
headi	~ u	P roa	<u>d'B</u>	Ciefly	Statched	Stina	11 Sta	nd w	est
of	100	nch b	fore	heading	Met o Searched South	to	The	truck	
				L J					
	-					1.e			

Mousing Outcome		
MI	M4	
M2	MS	
-M3	M6	-1

	Survey Typ	es:	Weathe	er codes:	Wind	i codes:	Species Code:	-	Sex Codes:	
4	ACS Activ	vity CantarSearch wy Up Search us Visit	CL FG PC DC DR	Clear Fog Partly Cloudy Ovaroast Drizzle	12345	1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mph	Northern Spotted Owl Berned Owl Great-harmed Owl Western Screech Owl Northern Svew-Whot Owl Northern Sww-Whot Owl Flammulated Owl Barn Owl Long-osred Owl Great Gray Owl	SPOW BADO GHOW WESD NPOW NSOW FLOW BAND LEOW GGOW	Male M Female F Unknown U Pair PR	RECEIVED JUL 27 2020

COAST AREA RESOURCE MANAGEMENT

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Timberland Resource Consultants

								1	Visit#: Co Visit Type: <u>NC</u>
	Project	Bush	nnell	Ray	ch				
	Observer	RF	JaH		Date (0/	15/2	0	PC /1-2/57°
Station	Start	End	SPOW CON/NC	CON Timé	Species	Sex	Bearing	Distance	Notes
1		2050							Cows
2		2103							Crickers
5	2110	2120	NC						Songbirds, guad Passed
7	the second se	2136					- III.	1.1	inf. wind gosts
6	2142	2152	NC						9, viet
8	2156	2206	NC					2	inf. wind gusts
9	2210	2220	NC				1		inf. wind gusts, flogs
10	2225	2235	NC		121		1.00		Frags
11	2242	2252	NC	1					Frogs
12	2300	2310	NC		2.64				Crickets
13	2318	2328	NC						inf wind gusts
15	2340	2350	NC						creek
14		0003							creek
16	0008	0018	NC						creek, frogs
4		0032	NC						crickets, Cows
			-	-				-	
1		4							
	ł				-				
								_	
							2.1.1		

*List all stations and note if skipped.

CL FF PC CC

DR

Survey Types: SC Spot Checks SC NC TS DC Night Calling Transact Surveys Day Calling

Weather codes: CL Clear Fog Partly Cloudy Overcast Ortzie

1

234

5

Wind codes: 1-3 mph 4-5 mph 7-9 mph 10-12 mph 13-15 mph

Species Code: Northern Spotted Owl Barred Owl Great-homed Owl SPOW GHOW Western Screech Owl Northern Pygmy Owl WESO Rorthern Saw-whet Owl Flammulated Owl Barn Owl NSOW FLOW Long-eared Owl Great Gray Owl LEOW Sex Codes: Male M Fomale F Unknown U PR Pair

RECEIVED JUL 27 2020 RESOURCE MANAGEMENT

Page 1 of 1

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Timberland Resource Consultants

								1	/isit#: 7 Visit Type: AVC
	Project	Bus	lanoll	Ra	nch				
	Observer	Bus	Ja	4	Date	61	1221	20	Weather/Wind/Temp CI/O/70
	L		SPOW						
Station	Start	End	CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes
13	2109	2120	NC			-			Song Birds GHOLI
		2150			1				Crepk, GHOW ext. to listen
14	2154	2205	NC						Songbirds GHOW Creek GHOW ext. to listen Creek
		1				1.0		<u> </u>	
	× .		1 < 1						
			1		_				
			1						
							1997 - 1997 	1278	
1			$\Gamma \ge 0$						
				1 y					
							-		
1					1475			2	
					-				
								2	1+1 2
									а
	620			1					
	1								
	4								
	1								
			1		1				

*List all stations and nota if skipped

Survey Types: SC Spot Checks NC Night Calling Weather codes: CL FG PG OC OR NC TS DC Transect Surveys Day Calling

Clear Fog Partly Cloudy Overcast Drizzle Wind co des:

1 2

3

45

Species Cade: Northern Spatted Owl 1-3 mph 4-6 mph 7-9 mph 10-12 mph Barrad Owl Great-homed Owl Western Screech Owl 13-15 mph Northern Pygmy Owl Northern Saw-what Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male M Female F Unknown U Pair PR

SPOW

BADO

WESO

NPOW

FLOW

LEOW GGOW

RECEIVED JUL 2 7 2020 COAST AREA RESOURCE MANAGEMENT

From: Sent: To: Subject: Attachments: dleonard@timberlandresource.com Monday, July 27, 2020 12:31 PM Santa Rosa Review Team@CALFIRE 1-20-00062-HUM, NSO Amendment RVSD 1-20-00062-HUM, NSO Amendment_RVSD.pdf

Warning: this message is from an external user and should be treated with caution.

t

Please find attached to this email the Revised NSO Survey Data summary to be included as a minor amendment for THP 1-20-00062-HUM.

Thank you,

Jon Dylan Leonard Registered Professional Forester #3107 Timberland Resource Consultants 165 S. Fortuna Blvd Fortuna, CA 95540

o: 707-725-1897 c: 317-965-3198

> RECEIVED JUL 27 2020 RESOURCE MANAGEMENT

From: Sent: To: Cc: Subject: Baker, Michael@CALFIRE Monday, July 27, 2020 3:35 PM Santa Rosa Review Team@CALFIRE Solinsky, Bill@CALFIRE RE: 1-20-00062-HUM, NSO Amendment RVSD

Santa Rosa Review Team,

I have reviewed the cover letter with data summary, scans of field datasheets, and calling station map, submitted as a request for amendment to the approved 1-20-00062 HUM plan.

The surveys were conducted in accordance with USFWS 2012 NSO Survey Protocol guidance.

The submitted information is clear and the survey summary is accurate. Additional discussion of the pair detection (during nighttime foraging and from within foraging habitat east of the current plan area) has been provided. These aspects of this amendment request are appreciated.

An explicit, written statement regarding the submitter's determination regarding the avoidance of take of NSO, given the current survey results and plan Protection Measures, would also be appreciated.

I recommend that the amendment request be accepted and applicable until February 1, 2021.

Michael Baker

Cell: 916-616-0021

Michael D. Baker, Ph.D. Forest Practice Biologist Sr. Environmental Scientist CALLEE Sacramento Email preferred over voicemail

Every Californian should conserve water and keep trees alive.

Find out how at: saveourwater.com/trees · Drought.CA.gov

From: Santa Rosa Review Team@CALFIRE Sent: Monday, July 27, 2020 1:18 PM To: Baker, Michael@CALFIRE <Michael.Baker@fire.ca.gov> Subject: FW: 1-20-00062-HUM, NSO Amendment RVSD

From: <u>dleonard@timberlandresource.com</u> [mailto:dleonard@timberlandresource.com] Sent: Monday, July 27, 2020 12:31 PM To: Santa Rosa Review Team@CALFIRE <<u>SantaRosaReviewTeam@fire.ca.gov</u>> Subject: 1-20-00062-HUM, NSO Amendment RVSD

RECEIVED JUL 2 7 2020 Warning: this message is from an external user and should be treated with caution.

Please find attached to this email the Revised NSO Survey Data summary to be included as a minor amendment for THP 1-20-00062-HUM.

Thank you,

Jon Dylan Leonard

Registered Professional Forester #3107 Timberland Resource Consultants 165 S, Fortuna Blvd Fortuna, CA 95540

o: 707-725-1897 c: 317-965-3198





165 South Fortuna Boulevard, Fortuna, CA 95540

707-725-1897 · fax 707-725-0972

trc@timberlandresource.com

California Department of Forestry and Fire Protection Attention: Deputy Director Forest Practice 135 Ridgeway Avenue Santa Rosa, CA 95402

AMENDMENT NO 6 (Minor)

1-20-00062-HUM - MINOR

SUBJECT:

Dear Deputy Director Forest Practice:

Please find the attached 2021 NSO Data.

Results

The Bushnell THP was Spot Check surveyed three times per protocol in 2021. Surveys occurred in March and April. Activity Center Searches (ACS) were used to status known NSO's within 1.3 miles of the THP area. HUM1139, pair, was detected during the ACS at the last known pair location. During this visit the pair was nonnesting. A reproductive visit has not yet been conducted as the activity center is located over 0.25 miles away from the harvest boundary and reproductive status will have no bearing on the THP. A reproduction visit will occur after May 1st as part of data collection associated with the neighboring NTMP, HUM1140 was detected during night time surveys in the vicinity of the activity center, although was not detected during the Follow-Up search/ ACS. No additional detections from HUM1140 occurred during the 2021 Spot Check survey season.

Additionally, a barred owl was detected on the third visit during night-time surveys at station 8. This detection occurs in the vicinity of past observed barred owl activity within the BAA (station 7 during the 2020 survey season).

Summary

In summary, there are no changes to the locations of NSO's within 1.3 miles of the plan area. Additionally, no new NSO's occur within the BAA. Therefore, the Take Avoidance will follow protection measures contained within the Section II of the THP, and the Take Avoidance Assessment located in Section V.

Sincerely,

Jon Dylan Leonard, RPF #3107 Timberland Resource Consultants

Enclosures:

2021 Survey Data

RECEIVED MAY 03 2021 COAST AREA OFFICE

Bushnell THP

RESOURCE MANAGEMENT

1-20-00062-HUM

c: Unit (2), BOE, SUB, RPF NSO

Reviewed by

May 3, 2021

This amendment conforms to the rules and

the regulations of the Board of Forestry and

the Forest Practice Act

Date routed MAY 04 2021

Valid Until: FEB 01 2022

Timberland Resource Consultants

NC Visit#: Visit Type: Project Bushnell Ranch NTMP Date Weather/Wind/Temp Observer RF 3-2-21 CL /0-1/550 SPOW CON/NC **CON Time** Species Bearing Distance Notes Sex Station Start End Frogs, distant creek NC 12 1802 1812 Frogs 11 1817 1827 NC 1845 Frogs, Creek 10 1835 NC 9 1852 1902 Frogs, creek, GHOW, NPOW NC 8 1905 1915 NC Frogs 1918 1928 NC 6 dogs 7 NC Frogs 1933 1943 5 dogs. crickers 1947 1957 NC Creek, ext. for listening 3 2009 2024 NC NC creek , Cows, Frogs 2033 2043 Frogs 2 Creek 2045 2055 NC creek, Frogs NC. 16 2110 2120 300' Frequent gunshots for extent of SPOW 304° M 13 2127 2145 Con 2140 Station GHOW large/distant explosion from N/W @ 2134 ext. for Possible detection. 4 note heard only once more. 500+ 2200 2216 CON 2140 creek. 384 notes heard 2210 SPOW M 15 400' M012° 2230 CON creek. distant generator, just SPOW 2220 14 2219 listened, 485 notes heard A COLIS 4 2236 2246 NC creek *! ist all stations and note if skipped.

Survey Types: Spot Checks SC NC Night Calling Transect Surveys TS Day Calling DC

Weather codes: a FG

DR

PC OC.

2 Fog Partly Cloudy 3 Overcast 4 Drizzle

Clear

Wind codes: 1-3 mph 4-6 mph 7-9 mph 10-12 mph 13-15 mpb

1

Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Ow Flammulated Owl Barn Owl Long-eared Owl Great Grav Owl

Sex Codes: Male M Female F Unknown U PR Pair

SPOW

BADO

GHOW

WESO

NPOW

NSOW

FLOW

BANO

LEOW

GEOW



Timberiand Resource Consultants

Project: Bushnell Ro	nch NTMP	· · · · · · · · · · · · · · · · · · ·
Observer: RF	Date: 3-3-21	Weather/Wind/Temp: CL / 0 / 5Z
Owl #: (If Known)	Start Time: 1630	End Time: 18 45

Recent Night Visit#:

Parked UP-hill from Hiked E towards Notes: STATION 14 road. into AC. 9 ood N TURNED O and Presented 9000 -houg abitaT. MAT TOPA UP Poi 2 200480 to Vantag 11 1 2 STO PPER I 5 D TO grouse 8 GHOW C -10 7 2 hODT 2 da VIned 13 S before STATION UST MAT ton -1est edge Crossed going S MANTE road On 6 Pro whil ences 2 do 10 boundary STOPF habitat 10 iscl pilling Pa hean 6106 8 10 -1 180 8 beai unshor Hear V habiti 57 101 DO C -0 8 grouse ST q. acra PO Tr G 5 for 2 415 R T e. iler;

Mousing Outcome

4		
M1	M4	1000
M2	M5	
142	M6	
M3	1/10	

Survey Types: ACS Activity Center Search FUS Follow Up Search SV Status Visit Weather codes: CL Clear FG Fog PC Partly Cloudy OC Overcast DR Drizzle

Wind codes: 1 1-3 mph 2 4-6 mph 3 7-9 mph 4 10-12 mph 5 13-15 mph Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-what Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl Sex Codes: Male M Female F Unknown U Pair PR

SPOW

BADO

GHOW

WESO

NPOW

NSOW FLOW

BANO

LEOW

Page ____ of ____

FU

Visit Type:



Timberland Resource Consultants

Recent Night Visit#: Visit Type: ACS

Project: Bushnell	NTMP	
Observer: RF	Date: 3-31-21	Weather/Wind/Temp: CL / O-1 / GO O
Owl #: (If Known)	Start Time: 1800	End Time: 2010

Notes:	
Be	egan from Truck S/E of Station 3. Headed
	to habitat around S. Fork of Conley Creek
C	Cossed creek and began uphill to hards AC.
18	30 reached flagging you large Fir with snag.
18	40 Female Seen in Fir. 0 1842 Female
t	ock m 1 and Cacherl in Jarge Fir. 1843 Female
fa	ock M2 and 1847 ATTE M2. 1857 F. ook M3. 1905 F Cachel M3 in Same Fir.
т	ook M3. 1905 F Cacheel m3 in Same fir.
19	15 F. took M4 1930 F are M4
19	35 F took m5, 1936 F gives 3 note call.
N	1 flew in to fir 1938 & flies to Mand
1	ransfers M5 to male 1940 Male flies N.
	T of Sight 1950 F took MG and Called
10	n Same fir. Headed back to Truck
	· () () () () () () () () () (
1	

M1 1942-7F	M4	1915 -7 F
M2 1843-2F	M5	1936-7M
M3 1857-2F	M6	1950 7F

. . .

Survey Types: ACS FUS SV Activity Center Search Follow Up Search Status Visit

.

Weather codes: Clear CL FG PC OC DR Fog Partly Cloudy Overcast Drizzle

Wind codes: 1-3 mph 4-6 mph 1 2 7-9 mph 10-12 mph 345 13-15 mph

Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-what Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl

Sex Codes: Male M Female F Unknown U Pair PR

SPOW

BADO

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Page 1 of Z



Page _____ of _____

berland Resource Consultants

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Project	2 1	011	12	.cl.		-		
Observer	DUSH	rell	Ko	Date 3	-3	1-2	1	Weather/Wind/Temp CL / 1-Z / CO°
		SPOW					Distance	Notes
								Creek, Cows
2045	2055	NC						COWS, frogs
		and the second sec	+			(Ch)		Creek. Cows Cows, frogs ereek
- 8			•* ·					Creek
7177	7137	NC					14	Creek, flogs
2141	7151	NG			-	141	N.	Coul at Station distant cree
			140.41					frog S, Cows
7209	7714	NC				52.1		Frogs creek
2225	2235	NC	And a second second	1 1	1			Flogs Creek distant COWS
								distant creek
			-				1	Cows
			E.		4			quiet
-7372	2333	NC						frogs
2340	7350	Arc	11.	1				frogs COLVS, frogs
		1	1					V
	1	12-1	1					
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	5627 2025 2045 2059 2114 2127 2127 2155 2209 2255 2209 2255 2306 2323 2340	Start End 2025 2035 2045 2055 2059 2109 2114 2124 2127 2137 2137 2137 2141 2151 2155 2205 2209 2219 2209 2219 2232 2302 2306 2316 2323 2350 2340 2350	Start End SPOW CON/NC ZOZ5 ZO35 N/C ZO45 ZO55 NC ZO59 ZI09 NC ZO14 ZO57 NC ZO59 ZI09 NC ZI14 ZIZ9 NC ZI27 ZI37 NC ZI55 ZZ05 NC ZI55 Z306 XC Z306 Z316 MC Z340 Z350 NC Z340 Z350 NC Z340 Z350 Z Z340 Z350 Z	Start End SPOW CON/NC CON Time ZOZ5 ZO35 N/C	Start End SPOW CON/NC CON Time Species 2025 2035 NC $$ $$ 2045 2055 NC $$ $$ 2059 2109 NC $$ $$ 2114 2127 NC $$ $$ 2127 2137 NC $$ $$ 2141 2151 NC $$ $$ 2155 7205 NC $$ $$ 2257 2302 NC $$ $$ 2306 2350 NC $$ $$ 2340 2350 NC $$ $$ $$	Start End SPOW CON/NC CON Time Species Sex 2075 2035 NC	Start End SPOW CON/NC CON Time Species Sex Bearing 2075 2035 NC IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

1

*List all stations and note if skipped.

Survey Types: SC Spot Checks NC Night Calling TS Transect Surveys DC Day Calling

Weather codes: CL Clear FG Fog PC Partly Cloudy OC Overcast DR Drizzle Wind codes:

1

2

34

5

des: Species Code: 1-3 mph Northern Spotted Owl 4-6 mph Barred Owl 10-12 mph Great-horned Owl 10-12 mph Western Screech Owl 13-15 mph Northern Pygmy Owl Northern Saw-what Owl Barn Owl Long-eared Owl Great Grav Owl Sex Cades: Male M Female F Unknown U Pair PR

SPOW BADO GHOW

WESO

NPOW

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Fimberland Resource Consultants

Visit#: 3 Visit Type: NC Project Bushnell Ranch Date Weather/Wind/Temp Observer RF 4-17-20 CC /1-2/46° SPOW CON/NC Station **CON** Time Bearing Start End Species Distance Sex Notes 6-1 0141 NC Frogs, disman dogs, NPOW 0151 16 distant dogs 0154 0204 NC creek frog S 14 0208 WC 0218 creek ell frogs KN. saw whet own 15 NSOW, Creek, gerenzor 1220 0231 NC :13 UZ38 0248 NSOW. COWS NC 0253 0303 12 NC distant generator, int. Windgusts, frog 11 0308 0318 NC Wind 3-4 frags inf 10 0324 0334 Wind NC x gusts, Proe S 9 Wind 3-4 NC 0337 0347 Creek, distant days NSOW, inf. Windgwirs, BADO 8 0351 0403 NC flew into Station 2 0400 inf. Wind gusts 0406 0416 NC large animal in brush inf. Wind gusts 0421 0431 NC 5 creek, frogs 0446 0436 NC 2 Creek, frogs, NPOW 0458 0508 NC frogs Creek, NC 0511 0521 Ł .

*List all stations and note if skipped.

Survey Types: SC Spot Chacks NC Night Calling TS Transect Surveys DC Day Calling Wéather codes: CL Clea FG Fog PC Part OC Over

DR

s: Wind codes: Clear 1 1-3 Fog 2 4-6 Partly Cloudy 3 7-5 Overcast 4 10 Orizzle 5 13

1-3 mph

4-6 mph

7-9 mph

10-12 mph

13-15 mph

Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Owl Sex Codes: Male M Female F Unknown U Pair PR

SPOW

BADO

GHOW

WESO.

NFOW

NSOW

FLOW

BANO

LEOW

GGOW

Page 1 of 1

From:	dleonard@timberlandresource.com
Sent:	Monday, May 3, 2021 7:22 AM
To:	Santa Rosa Review Team@CALFIRE
Subject:	1-20-00062-HUM 2021 NSO Survey Data
Attachments:	1-20-00062-HUM_NSO_minor.pdf

Follow Up Flag:Follow upFlag Status:Flagged

Warning: this message is from an external user and should be treated with caution.

Good morning,

Attached is the 2021 NSO Survey Data to be included with plan 1-20-00062-HUM as a minor amendment.

Sincerely,

Jon Dylan Leonard

Registered Professional Forester #3107 Timberland Resource Consultants 165 S. Fortuna Blvd Fortuna, CA 95540

o: 707-725-1897 c: 317-965-3198

> RECEIVED MAY 03 2021 COAST AREA OFFICE RESOURCE MANAGEMENT



165 South Fortuna Boulevard, Fortuna, CA 95540

707-725-1897 · fax 707-725-0972

trc@timberlandresource.com

California Department of Forestry and Fire Protection Attention: Deputy Director Forest Practice 135 Ridgeway Avenue AMENDMENT NO Santa Rosa, CA 95401

April 15, 2022

NSO 02-01-2023 Valid Until:

SUBJECT:

1-20-00062-HUM_ MINOR

10 (Minor)

Dear Deputy Director Forest Practice:

Please find the attached 2022 NSO Data.

Results

This amendment conforms to the rules and the regulations of the Board of Forestry and the Forest Practice Act

Reviewed by MB/DS Date routed 04-18-2022

cc: Unit (2), BOE, SUB, RPF The Bushnell THP was Spot Check surveyed three times per protocol in 2022. Surveys occurred in March and April. Activity Center Searches (ACS) were used to status known NSO's within 0.5-miles of the THP area. HUM1140 was established as a Resident Single male owl in 2018, and the activity center is located 0.4-miles from the THP. HUM1140 was not detected during the 2022 ACS. No detections from HUM1140 occurred during the 2022 Spot Check survey season.

One additional activity center is known within 1.3-miles of the THP. HUM1139 is located 1.1-miles from the THP on private property. This AC has not been searched for so far in the 2022 season, however an ACS visit will occur as part of data collection associated with the neighboring NTMP. No detections from HUM1139 occurred during the 2022 Spot Checks.

No detections of northern spotted owls, nor barred owls, occurred during the 2022 survey season.

Summary

In summary, there are no changes to the locations of NSO's within 1.3 miles of the plan area. Additionally, no new NSO's occur within the BAA. Therefore, the Take Avoidance will follow protection measures contained within the Section II of the THP, and the Take Avoidance Assessment located in Section V.

Sincerely,

RECEIVED

APR 15 2022 COAST AREA OFFICE **RESOURCE MANAGEMENT Bushnell THP**

Jon Dylan Leonard, RPF #3107 **Timberland Resource Consultants**

Enclosures:

2022 Survey Data

1-20-00062-HUM

1

Timberland Resource Consultants

Recent Night Visit#: N/A | Visit Type: ACS

Project: Bushne	11 Ranch	
Observer: R.F.	Date: 3/10/22	Weather/Wind/Temp: CL/L/58®
Owl#: (If Known) N/A	Start Time: 1505	End Time: 1820

Notes: Started abor stat roa off oh DL 3 road 4 the sonah ed ough 1100 5 L ta A 60 000 Ve trai 10 DINGO Follo 5 1630 64 0 Raven 5 G stay Stopp Follo 13 6a 00 al 2 O De no 50 AT 1810 -Eall at V 1820 PD 5 na

Mousing Outcome

M1	M4	
MZ	M5	
M3	M6	

Survey Types: ACS Activity Center Search FUS Follow Up Search

ACS FUS SV

Status Visit

Weather codes: CL FG PC OC DR Clear Fog Partly Cloudy Overcast

Drizzle

1-3 mph 4-6 mph 7-9 mph 10-12 mph 1 2345 13-15 mph

Wind codes:

×

Species Code: Northern Spotted Owl Barrad Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Owl Flammulated Owl Barn Owl Long-eared Owl Great Gray Dwl

Sex Codes: Male M Femala F Unknown U Pair PR

SPOW

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LEOW GGOW Page Lof 2



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Timberland Resource Consultants

11 1839 1 10 1851 1 9 1904 1 8 1916 1 6 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	End 1835 1849 1901 1914 1926 1939	SPOW CON/NC NC NC NC NC NC NC NC	CON Time	Date 3/10/: Species		Bearing	Distance	Notes	cl/1/55 14, & 13 for ACS s, cows	
12 1825 1 11 1839 1 10 1851 1 9 1904 1 9 1904 1 6 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1835 1849 1901 1914 1926 1939	NC N	CON Time	Species	Sex	Bearing	Distance	Notes Skipped 15, Grouse, frogs	14, & 13 for ACS s, cows	
12 1825 1 11 1839 1 10 1851 1 9 1904 1 9 1904 1 6 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1835 1849 1901 1914 1926 1939	NC NC NC NC NC				Bearing		Skipped 15, Grouse, frogs	s, cows	
11 1839 1. 10 1851 1. 10 1851 1. 10 1904 1. 11 1904 1. 12 1916 1. 13 1916 1. 14 1929 1. 15 1929 1. 16 2057 2.	1901 1914 1926 1939	NC NC NC NC						A share of the second sec		
10 1851 1 9 1904 1 9 1904 1 3 1916 1 5 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1901 1914 1926 1939	Nc Nc Nc						FLOW, creek	, frogs, cows	
9 1904 1 8 1916 1 5 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1914 1926 1939	Nc Nc				- 2 -				T)
8 1916 1 5 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1926 1939	Nc					1	Frogs, NSOW	/	
5 1929 1 7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2	1939				1.1			FLOW, frog,	cows	
7 1941 1 5 1955 2 3 2011 2 2 2024 2 1 2036 2 16 2057 2		Nc						Quiet		
5 1955 20 3 2011 20 2 2024 20 1 2036 20 16 2057 20	951		12.*			5.0.1	71 = 1	Quiet		11
3 2011 20 2 2024 20 1 2036 20 16 2057 20		Nc				i Ta		Frogs		
2 2024 20 1 2036 20 16 2057 21	2005	Nc	12 2	1.1		1. 10.1.	11 - 6 1	FLOW, distar	nt dogs	
1 2036 20 16 2057 21	2021	Nc		1.00				Creek, cow		
16 2057 2	2034	Nc		1		1	1.77	Creek		
	2046	Nc		1.1				Creek		
4 2114 2	107	Nc	12 21	12.91			24.6	Distant dogs,	, Flow	
	124	Nc		121			1 -1	Quiet		
21.2 *4 *							521			
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				121	21			-		
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Survey Types:

Weather codes:

Wind codes:

Species Code: SPOW

FLOW= Flammulated owl NSOW= N, Saw-whet owl

Sex Codes:

Page_1 of 1

Timberland Resource Consultants

	Observer Ryan Farmer SPOW				Date 4/6/22					Weather/Wind/Temp				
										cl/1-2/48				
tation	Start	End	CON/NC	CON Time	Species	Sex	Bearing	Distance	No		1.1			
	2045	2055	Nc	1			12 2.4	116 1	Cr	reek, cow	'S	_		
	2057	2107	Nc	1.2		111	1 21		Cr	reek, frog	s, cow	s		
	2109	2119	Nc		1.2.2	11			C	reek, frog	gs, cow	S		
5	2128	2138	Nc				1 Fal	10.24	Fr	ogs, FLO	W			
7	2142	2152	Nc	1	1.3		1.0		Q	uiet				
5	2157	2207	Nc						Q	uiet				
3	2209	2219	Nc			114	16.5		Co	ows				
9	2223	2233	Nc						Fr	ogs				-
10	2236	2246	Nc	1			-		Fr	ogs				
11	2250	2300	Nc						Fr	ogs				
12	2305	2315	Nc				12.24		NS	sow			-	
13	2321	2331	Nc	ire_			126		Co	ows				
15	2337	2347	Nc	10 mm		in-i	1		Di	stant dog	gs, FLC	W		
14	2350	0000	Nc	1.1			1-1		Cr	eek	1			
16	0006	0016	Nc	12-14		1	1.1	1	Cr	reek				
1	0019	0029	Nc		1-2-		1		Co	ows				
	2.11		h	11-		[F]								
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Survey Types:

Wind codes: Species Code:

SPOW Sex Codes:

FLOW = Flammulated out NSOW = N. saw-whetowl

Weather codes:

Northern Spotted Owl Survey Form Timberland Resource Consultants

		Visit#: 3	Visit Type: NC
Project Bushnell Ranch			
Observer J. Henry	Date 04/15/2022	Weather/W OC	/ind/Temp / 0 / 40 F

Station	Start	End	CON/NC	CON Time	Species	Sex	Bearing	Distance	Notes
16	19:49	19:59	NC		-	-		is-	Dogs, Cows
15	20:05	20:15	NC	<u>Seni</u>	-	-		1.41	loud creek, hooted 100' north
14	20:18	20:28	NC		-	-			heard Mtn Creek
13	20:39	20:49	NC		-	-			
12	20:54	21:04	NC	1	-	-31			very Quiet
11	21:08	21:18	NC	1		-	1 1		Part of the second s
10	21:21	21:31	NC			N.	16 - E		tree frogs
09	21:34	21:44	NC		-	-			
08	21:47	21:57	NC		->	-		1100	Light sprinkle
06	22:00	22:10	NC		201	-1		NTE I	
07	22:15	22:15	NC	1	92. Q	÷			
05	22:37	22:47	NC	1 - 1		-			
03	22:58	23:08	NC		-	÷		2	
02	23:11	23:21	NC		2011	-		4.4	
01	23:25	23:35	NC		- 1	-			
		1	÷		-	-		1.41	
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	F X				•	-		2.21	
	13	•			\mathbb{R}^{-1}	40			
			-		1	-			
					-	-		2.4	
		17-1	4.1			-	121		

*List all stations and note if skipped.

Survey Types: SC Spot Checks NC Night Calling TS Transect Surveys DC Day Calling

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Weather codes: CL Cl FG FC PC Pa OC ON DR Dr Clear

Fog Partly Cloudy

Wind codes: 1 1-3 mph 2 4-5 mph 3 7-9 mph 4 10-12 mph Species Code: Northern Spotted Owl Barred Owl Great-horned Owl Western Screech Owl Northern Pygmy Owl Northern Saw-whet Owl Flammulated Owl Barn Owl 13-15 mph Long-eared Owl Great Gray Owl

Sex Codes: Male M Female F Unknown U Pair PR

SPOW BADO GHOW

WESO

NPOW NSOW FLOW BANO

LEOW

Page 1 of 1

12345 Overcast Drizzia

From:	dleonard@timberlandresource.com
Sent:	Friday, April 15, 2022 3:50 PM
То:	Santa Rosa Review Team@CALFIRE
Subject:	1-20-00062-HUM minor
Attachments:	1-20-00062-HUM_2022 NSO data.pdf

Categories: Amendments

Warning: this message is from an external user and should be treated with caution.

Good afternoon,

Attached is the 2022 NSO survey data to be amended to the THP.

Thank you,

Jon Dylan Leonard

Registered Professional Forester #3107 Timberland Resource Consultants 165 S. Fortuna Blvd Fortuna, CA 95540

o: 707-725-1897 c: 317-965-3198



COAST AREA OFFICE RESOURCE MANAGEMENT