

Initial Biological Assessment:

MeeMeeMine LLC Parcel Subdivision 280 Table Bluff Road - Loleta, CA

Humboldt County

APN: 308-271-001

Prepared by Hohman and Associates July 8, 2024

Setting

This document assesses habitats and potentially occurring special-status animals and plants; and identifies potential impacts of operation-related activities on biological resources for the proposed MeeMeeMine LLC Table Bluff Subdivision. The proposed subdivision would divide the property into two separate parcels; the parcel being assessed lies in the eastern half of the property and contains a mowed non-native field, Sitka spruce forest, and an existing leach field. The entire property has evidence of current and historical grazing. This assessment assumes that all potential impacts from the development will be limited to the proposed development site and areas immediately surrounding it.

The proposed Subdivision is approximately 7.5 acres located on the MeeMeeMine LLC property at 280 Table Bluff Rd. in Loleta, CA. The MeeMeeMine LLC property is located in Section 8, Township 3 North, Range 1 West; HB&M, approximately 1 mile north of the community of Loleta, CA in Humboldt County on the Fields Landing USGS 7.5' Quad. The property lies within the California Floristic Province, Northwestern California region, and North Coast sub-region. No watercourses exist in the project area, and no fish-bearing streams exist in the parcel. Elevation ranges from approximately 200 feet to 300 feet, with gentle to moderate slopes. The aspect is primarily east-facing. The project area is composed entirely of a non-native grassland, which is mowed frequently by the landowner. The remaining area of the parcel contains Sitka spruce forest (S2) and scattered coastal riparian scrub that could be loosely described as the Salmonberry-wax myrtle shrubland alliance (S3), however, these sensitive natural communities are a minimum of 200' from the project area.

Methods

Hohman and Associates conducted a field review in June of 2024 of the project footprint and surrounding habitat in the parcel. This included looking for signs of listed species and available habitat.

This Biological Scoping report considers the potentially occurring species and communities that could be affected by project activities in the proposed footprint based on available spatial data and habitat requirements. Focused site visits may be necessary to further evaluate potential habitat value to special-status species and finalize survey recommendations for proposed project activity. A list of special-status species was downloaded from CNDDB BIOS for the Fields Landing 9-quad area. Species on the CNDDB list were primarily included based on State or Federal listing status or CDFW designation. Native pollinators found in the area were also included based on State rarity and their potential to be impacted by project activities. The U.S. Fish and Wildlife Service IPac was queried and generated a scoping list to consider. Additional species were added to the special-status list for consideration based on potential habitat or high levels of conservation concern. Habitats within the 0.7-mile Biological Assessment Area (BAA) for potentially occurring species were evaluated based on CALVEG vegetation mapping and aerial photos.

Summary of Findings

The project area lies within a mowed field of non-native grassland surrounded by large, non-native conifers. No evidence of listed plant species was observed in and around the project area, so no botanical survey is recommended. The area does not provide the high canopy-closure forest habitat that could support northern spotted owls, and no occurrences of NSO have been recorded within 2-3 miles of the project area. Significant vegetation clearing operations may impact nesting birds; nesting bird surveys are recommended prior to any operations occurring during the breeding season. Although occurrences of special status mammals are possible, it is highly unlikely the species would be present in the project area. The project may avoid indirect impacts to special-status fish, amphibians, and reptiles by remaining within the confines of the proposed project area, which avoids all wetland locations. No surveys are necessary prior to parcel subdivision, only prior to potential future development in the project footprint. If newly discovered special-status species are observed, consultation with CDFW should be conducted and the results of that consultation shall be amended into the project before operations begin again

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Table 1. Birds

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Accipiter cooperii	Cooper's hawk	None	None	G5	S4	Yes
Accipiter striatus	sharp-shinned hawk	None	None	G5	S4	Yes
Agelaius tricolor	tricolored blackbird	None	Threatened	G1G2	S2	No
Ammodramus savannarum	grasshopper sparrow	None	None	G5	S3	Yes
Ardea alba	great egret	None	None	G5	S4	Yes
Ardea herodias	great blue heron	None	None	G5	S4	Yes
Brachyramphus marmoratus	marbled murrelet	Threatened	Endangered	G3	S2	No
Charadrius montanus	mountain plover	None	None	G3	S2	Yes
Charadrius nivosus nivosus	western snowy plover	Threatened	None	G3T3	S3	No
Circus hudsonius	northern harrier	None	None	G5	S3	Yes
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Threatened	Endangered	G5T2T3	S1	No
Coturnicops noveboracensis	yellow rail	None	None	G4	S2	No
Egretta thula	snowy egret	None	None	G5	S4	Yes
Elanus leucurus	white-tailed kite	None	None	G5	S3S4	Yes
Falco peregrinus anatum	American peregrine falcon	Delisted	Delisted	G4T4	S3S4	No
Haliaeetus leucocephalus	bald eagle	Delisted	Endangered	G5	S3	Unlikely
Nannopterum auritum	double-crested cormorant	None	None	G5	S4	No
Nycticorax nycticorax	black-crowned night heron	None	None	G5	S4	Yes
Pandion haliaetus	osprey	None	None	G5	S4	Unlikely
Rallus obsoletus obsoletus	California Ridgway's rail	Endangered	Endangered	G3T1	S2	No
Riparia riparia	bank swallow	None	Threatened	G5	S3	No

Table 2. Mammals

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Antrozous pallidus	pallid bat	None	None	G4	S3	No
Aplodontia rufa humboldtiana	Humboldt mountain beaver	None	None	G5TNR	SNR	Yes
Arborimus pomo	Sonoma tree vole	None	None	G3	S3	No
Corynorhinus townsendii	Townsend's big-eared bat	None	None	G4	S2	No
Erethizon dorsatum	North American porcupine	None	None	G5	S3	Yes
Lasiurus cinereus	hoary bat	None	None	G3G4	S4	Yes
Martes caurina humboldtensis	Humboldt marten	Threatened	Endangered	G4G5T1	S1	No
Myotis evotis	long-eared myotis	None	None	G5	S3	Yes
Pekania pennanti	Fisher	None	None	G5	S2S3	Yes

Table 3. Reptiles and Amphibians

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
	- 10 . 11 . 15					
Ascaphus truei	Pacific tailed frog	None	None	G4	S3S4	No
Rana aurora	northern red-legged frog	None	None	G4	S3	Yes
	foothill yellow-legged frog -					
Rana boylii	north coast DPS	None	None	G3T4	S4	No
Rhyacotriton variegatus	southern torrent salamander	None	None	G3?	S2S3	No
		Proposed				
Actinemys marmorata	northwestern pond turtle	Threatened	None	G2	SNR	No

Table 4. Fish

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Acipenser medirostris	green sturgeon - southern DPS	Threatened	None	G2T1	S1	No
Entosphenus tridentatus	Pacific lamprey	None	None	G4	S3	No
Eucyclogobius newberryi	tidewater goby	Endangered	None	G3	S3	No
Lampetra richardsoni	western brook lamprey	None	None	G4G5	S3S4	No
Oncorhynchus clarkii clarkii	coast cutthroat trout	None	None	G5T4	S3	No
Oncorhynchus kisutch	coho salmon - southern Oregon , northern California ESU	/ Threatened	Threatened	G5T2Q	S2	No
Oncorhynchus mykiss irideus	steelhead - northern California DPS summer-run	Threatened	Endangered	G5T2Q	S2	No
Oncorhynchus mykiss irideus	steelhead - northern California DPS winter-run	Threatened	None	G5T3Q	S3	No
		Proposed				
Spirinchus thaleichthys	longfin smelt	Endangered	Threatened	G5	S1	No
Thaleichthys pacificus	eulachon	Threatened	None	G5	S1	No

Table 5. Invertebrates

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Bombus caliginosus	obscure bumble bee	None	None	G2G3	S1S2	Yes
			Candidate			
Bombus occidentalis	western bumble bee	None	Endangered	G3	S1	Yes
Cicindela hirticollis gravida	sandy beach tiger beetle	None	None	G5T2	S2	No
Scaphinotus behrensi	Behrens' snail-eating beetle	None	None	G2G4	S2S4	No

Scientific Name	Common Name	FedList	CalList	GRank	SRank	RPlantRank	GenHab	Potential
E' '11.	minute pocket	N	N	C20	G2	1D 2		N
Fissidens pauperculus	moss	None	None	G3?	S2	1B.2	North coast coniferous forest. Broadleafed upland forest, lower	No
Anomobryum	slender silver						montane coniferous forest, north	
julaceum	moss	None	None	G5?	S2	4.2	coast coniferous forest.	No
Abronia umbellata		NI	N	C4C5T2	G2	1D 1	6 (11- 1 (14 1	NI
var. breviflora Chloropyron	pink sand-verbena	None	None	G4G5T2	S2	1B.1	Coastal dunes and coastal strand.	No
maritimum ssp.	Point Reyes salty							
palustre	bird's-beak	None	None	G4?T2	S2	1B.2	Coastal salt marsh.	No
Gilia millefoliata	dark-eyed gilia	None	None	G2	S2	1B.2	Coastal dunes.	No
Hesperevax	·							
sparsiflora var.		3.7	3.7	C 4TT2	~~	10.0	Coastal bluff scrub, coastal	3.7
brevifolia Lasthenia californica	short-leaved evax perennial	None	None	G4T3	S3	1B.2	dunes, coastal prairie. Coastal bluff scrub, coastal	No
ssp. macrantha	goldfields	None	None	G3T2	S2	1B.2	dunes, coastal scrub.	Yes
Astragalus	goraneias	rone	110116	0312	52	15.2	dunes, coustar seruo.	105
pycnostachyus var.	coastal marsh						Coastal dunes, marshes and	
pycnostachyus	milk-vetch	None	None	G2T2	S2	1B.2	swamps, coastal scrub.	No
Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	None	None	G4T2	S2	1B.2	Marshes and swamps.	No
							•	
Lathyrus japonicus	seaside pea	None	None	G5	S2	2B.1	Coastal dunes. Coastal bluff scrub, coastal	No
	Wolf's evening-						dunes, coastal prairie, lower	
Oenothera wolfii	primrose	None	None	G2	S1	1B.1	montane coniferous forest.	Yes
	round-headed							
Collinsia corymbosa	collinsia	None	None	G1	S1	1B.2	Coastal dunes.	No
Gilia capitata ssp.							Coastal bluff scrub, chaparral, coastal prairie, valley and foothill	
pacifica	Pacific gilia	None	None	G5T3	S3	1B.2	grassland.	Yes
1	8				-		Broadleafed upland forest, north	
Monotropa uniflora	ghost-pipe	None	None	G5	S2	2B.2	coast coniferous forest.	No
Layia carnosa	beach layia	Threatened	Endangered	G2	S2	1B.1	Coastal dunes, coastal scrub.	No
Clarkia amoena ssp.	Whitney's							
whitneyi	farewell-to-spring	None	None	G5T1	S1	1B.1	Coastal bluff scrub, coastal scrub.	Yes
Erysimum menziesii	Menzies' wallflower	Endangered	Endangered	G1	S1	1B.1	Coastal dunes.	No
Li y siii uiii iii ciizicsii	vv allilo vv Cl	Lindangered	Endangered	J1	51	10.1	Coustal dulles.	110

Sidalcea malviflora	Siskiyou							Coastal bluff scrub, coastal prairie, north coast coniferous	
ssp. patula	checkerbloom	None	None	G4G5T2	S2	1B.2		forest.	Yes
								North coast coniferous forest,	
Cardamine angulata	seaside bittercress	None	None	G4G5	S3	2B.1		lower montane coniferous forest.	No
	Oregon coast							Coastal bluff scrub, coastal	
Castilleja litoralis	paintbrush	None	None	G3	S3	2B.2		dunes, coastal scrub.	Yes
Downingia	Cascade							Cismontane woodland, valley and	
willamettensis	downingia	None	None	G4	S2	2B.2		foothill grasslands, vernal pools.	No
Lothumus malvotnis	mowh noo	None	None	G5	S2	2B.2		Bogs and fens, lower montane coniferous forest, marshes and swamps, north coast coniferous forest, coastal prairie, coastal scrub.	No
Lathyrus palustris	marsh pea	None	None	U3	32	Z D. Z		Broadleafed upland forest, lower	INO
Mitallantus and assure	leafy-stemmed	N	N	G5	S4		4.2	montane coniferous forest, meadows and seeps, north coast coniferous forest.	NI.
Mitellastra caulescens	mitrewort	None	None	GS	54		4.2		No
Montia howellii	Howell's montia	None	None	G3G4	S2	2B.2		Meadows and seeps, north coast coniferous forest, vernal pools.	No
Packera bolanderi var.	nowell's illonua	None	None	0304	32	Z D. Z		Coastal scrub, north coast	NO
bolanderi	seacoast ragwort	None	None	G4T4	S2S3	2B.2		coniferous forest.	No
Dotaliucii	Oregon	None	INOILE	0414	3233	20.2		Coastal prairie, coastal scrub,	110
Polemonium carneum	polemonium	None	None	G3G4	S2	2B.2		lower montane coniferous forest.	No
Sidalcea malachroides	maple-leaved checkerbloom	None	None	G3	S3	20.2	4.2	Broadleafed upland forest, coastal prairie, coastal scrub, north coast coniferous forest, riparian forest.	Yes
								Meadows and seeps, north coast	
Sidalcea oregana ssp.	coast							coniferous forest, lower montane	
eximia	checkerbloom	None	None	G5T1	S1	1B.2		coniferous forest.	Yes
Silene scouleri ssp. scouleri	Scouler's catchfly	None	None	G5T4T5	S2S3	2B.2		Coastal bluff scrub, coastal prairie, valley and foothill grassland.	No
Spergularia									
canadensis var. occidentalis	western sand- spurrey	None	None	G5T4	S1	2B.1		Marshes and swamps (coastal salt marshes).	No
	alpine marsh							,	
Viola palustris	violet	None	None	G5	S1S2	2B.2		Coastal scrub, bogs and fens.	No
								Lower montane coniferous forest, north coast coniferous forest,	
Lycopodium clavatum	running-pine	None	None	G5	S3		4.1	marshes and swamps.	Yes

a 1 · · · · · · · · · · · · ·	twisted horsehair		3.7	G2 G 4	~	15.0		North Coast coniferous forest	3.7
Sulcaria spiralifera	lichen	None	None	G3G4	S2	1B.2		(immediate coast), coastal dunes.	No
	Methuselah's							North coast coniferous forest,	
Usnea longissima	beard lichen	None	None	G4	S4		4.2	broadleafed upland forest.	Yes
	northern clustered							Bogs and fens, north coast	
Carex arcta	sedge	None	None	G5	S1	2B.2		coniferous forest.	No
	bristle-stalked							Bogs and fens, meadows and	
Carex leptalea	sedge	None	None	G5	S1	2B.2		seeps, marshes and swamps.	No
								Marshes and swamps (brackish or	
Carex lyngbyei	Lyngbye's sedge	None	None	G5	S3	2B.2		freshwater).	No
								Coastal scrub, freshwater marsh,	
								bogs and fens, coastal bluff	
								scrub, coastal prairie, north coast	
								coniferous forest, marshes and	
Lilium occidentale	western lily	Endangered	Endangered	G1G2	S1	1B.1		swamps.	Yes
								Bogs and fens, broadleafed	
Erythronium								upland forest, north coast	
revolutum	coast fawn lily	None	None	G4G5	S3	2B.2		coniferous forest.	No
	northern meadow				-	· · · ·			
Carex praticola	sedge	None	None	G5	S2	2B.2		Meadows and seeps.	No
•								<u> </u>	
Puccinellia pumila	dwarf alkali grass	None	None	G5	SH	2B.2		Marshes and swamps.	No

Potential Special-Status Species Details

Potentially Occurring Special Status Birds

Cooper's hawk (Accipiter cooperii)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G5, S4

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 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).

Status within the Project Area: No likely nesting habitat exists within the project area. However potential habitat exists adjacent to the project.

Potential Impact/Mitigation: The potential impact area of project activity would be limited to an open, mowed field, which could serve as potential hunting ground. Noise from potential project activity as well as any planned tree removal may disturb individuals in the vicinity of the project site.

Sharp-shinned hawk (Accipiter striatus)

Special Status: CDFW Fully Protected; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The sharp-shinned hawk roosts in intermediate to high-canopy forest and nests in dense, even-aged, single-layered forest canopy. Nest is a platform or cup in dense foliage against trunk, or in main crotch of tree, usually 6-80 ft above ground.

Status within the Project Area: Roosting is possible within the winter in trees surrounding the open field of the potential project site. Nesting is highly unlikely given their typical seasonality.

Potential Impact/Mitigation No impact to nesting sites is expected. Impact to the field in the project area may impact hunting ground.

Grasshopper sparrow (Ammodramus savannarum)

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

Habitat/Life-history Requirements: An uncommon and local, summer resident and breeder in foothills and lowlands west of the Cascade-Sierra Nevada crest from Mendocino and Trinity cos. south to San Diego Co. Occurs in dry, dense grasslands, especially those with a variety of grasses and tall forbs and scattered shrubs for singing perches. nest of grasses and forbs in a slight depression in ground, hidden at base of an overhanging clump of grasses or forbs.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, a large field.

Potential Impact/Mitigation Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Great egret (Ardea alba)

Special Status: Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The great egret is a common yearlong resident throughout California, except for high mountains and deserts. Feeds and rests in fresh, and saline emergent wetlands, along the margins of estuaries, lakes, and slow-moving streams, on mudflats and salt ponds, and in irrigated croplands and pastures. Nests in large trees, and roosts in trees. Nests are usually near water at a height of 10-80ft and nesting activity is very sensitive to frequent human disturbance.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, in large Monterrey cypresses and a large field, respectively.

Potential Impact/Mitigation Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Peregrine falcon (Falco peregrinus anatum)

Special Status: Federally Delisted, State Delisted, CDFW Fully Protected; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G4T4, S3S4

Habitat/Life-history Requirements: The formerly federally endangered peregrine falcon was delisted in 1999 due to recovery (USFWS ECOS). The 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).

Status within the Project Area: No nesting habitat exists within the project area, the project is not near any large bodies of water.

Potential Impact/Mitigation: No buildings or bridges are being removed with this project. The project will not significantly impact nesting peregrine falcons or their habitat.

Great blue heron (*Ardea herodias*)

Special Status: USFS.S.

Habitat/Life-history Requirements: The great blue heron is fairly common all year throughout most of California, in shallow estuaries and fresh and saline emergent wetlands. Less common along riverine and rocky marine shores, in croplands, pastures, and in mountains above foothills. Usually nests in colonies in tops of secluded large snags or live trees, usually among the tallest available; rarely nests on ground, rock ledges, sea cliffs, mats of tules, or shrubs. Nesting activity is sensitive to human disturbance.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, in large Monterrey cypresses and a large field, respectively.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Mountain plover (*Charadrius montanus*)

Special Status: CDF - Sensitive; CDFW – Watch List; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: Population declining and very local; occasionally fairly common. Winter resident from September through March. Found on short grasslands and plowed fields of the Central Valley from Sutter and Yuba cos. southward. Recent extralimital records in the North Coast have been recorded.

Status within the Project Area: It is very unlikely that mountain plover will occur in the project area. Foraging sites exist within the project footprint. The species does not nest in California.

Potential Impact/Mitigation: Project operations may impact foraging sites, but is unlikely to impact populations.

Northern harrier (Circus hudsonius)

Special Status: CDF – Sensitive.

Habitat/Life-history Requirements: Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. Permanent resident of the northeastern plateau and coastal areas; less common resident of the Central Valley. Widespread winter resident and migrant in suitable habitat. California population has decreased in recent decades. Nests on the ground in shrubby vegetation or tall grasses, often near wetlands.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Snowy egret (*Egretta thula*)

Special Status: CDF – Species of Special Concern; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The snowy egret is widespread in California along shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. Feeds in shallow water or along shores of wetlands or aquatic habitats, and is the most active feeder of the California herons. Can nest either low in trees or on the ground in dense marshes.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

White-tailed kite (*Elanus leucurus*)

Special Status: CDFW – Species of Special Concern.

Habitat/Life-history Requirements: Common to uncommon, yearlong resident in coastal and valley lowlands; rarely found away from agricultural areas. Inhabits herbaceous and open stages of most habitats mostly in cismontane California. Typically nests near the top of available tree species adjacent to foraging ground (e.g. grassland and meadows).

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress. Three individuals were seen perched about 280 feet from the northern end of the project site in a large grand fir.

Potential Impact/Mitigation: Project operations could significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Bald Eagle (*Haliaeetus leucocephalus*)

Status: State Endangered, Federally Delisted August 8, 2007, CDFW "Fully Protected", and BOF Sensitive Species

Habitat/Life-history Requirements: Requires large bodies of water or free flowing rivers with abundant fish populations, with adjacent snags or other perches. Fish are a primary source of prey, and bald eagles are typically found in forested areas near large fish-bearing waters. Bald eagles build large nests about 6 feet wide. Nests are typically found in large trees, but may be built on other available vegetation or structures.

Status within the Project Area: The Eel River lies approximately 2 miles south of the project area. The project and the area adjacent were searched for the existence of bald eagle nests or potential nest sites. No large dead tops or snags existed in adjacent trees.

Potential Impact/Mitigation: The project as proposed should not significantly impact nesting Bald Eagles or their habitat.

Black-crowned night heron (*Nycticorax nycticorax*)

Special Status: CDFW – Watchlist.

Habitat/Life-history Requirements: The black-crowned night-heron is a fairly common, yearlong resident in lowlands and foothills throughout most of California. Can nest either low in trees or on the ground in dense marshes. Feeds along the margins of lacustrine, large riverine, and fresh and saline emergent habitats.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Osprey (Pandion haliaetus)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G5, S4

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 typically make large nests in tall snags or trees high off the ground in open forest habitats (Zeiner et al.).

Status within the Project Area: Ospreys are unlikely to occur in the area directly impacted by the project. The nearest occurrence mapped in CNDDB 2023 is more than 7 miles away from the project.

Potential Impact/Mitigation: No known Osprey nest sites are located within the assessment area. The project as proposed should not significantly impact nesting Osprey or their habitat.

Mammals

North American porcupine (Erethizon dorsatum)

Special Status: CDFW Special Animals List (2017); NatureServe Ranks: G5, S3

Habitat/Life-history Requirements: The American porcupine is most commonly found in montane conifer, Douglas-fir, alpine dwarf-shrub, and wet meadow habitats (Zeiner et al. 1988). The herbivore feeds on a wide variety of aquatic and terrestrial herbs, shrubs, fruits, leaves, and buds in the summer (Zeiner et al. 1988). During the winter, the porcupine diet includes evergreen leaves, twigs, bark, and cambium of trees, particularly conifers (Zeiner et al. 1988).

Status within the Project Area: The habitat present in the project footprint is marginal, however, both nearby forest and meadow habitat may support American porcupine. No indications were seen during initial site visit.

Potential Impact/Mitigation: Although widely distributed throughout North America and occurring in many habitats, the North American porcupine is considered vulnerable in California. The project area lying entirely within a mowed non-native grassland is unlikely to impact American porcupine.

Fisher - West Coast DPS (Pekania pennanti)

Special Status: CDFW Species of Special Concern; NatureServe Ranks: G5, S2S3

Habitat/Life-history Requirements: The fisher uses large expanses of forest with moderate to high canopy closure, and will avoid open forest, grasslands, and wetlands (USFWS 2014). Fishers use cavities in live trees, snags and down logs for reproductive dens (USFWS 2014). Structural complexity is a critical element of fisher habitat, necessary to provide cover for resting and denning, and habitat for prey (USFWS 2014).

Status within the Project Area: The project area does not contain fisher habitat, but potential habitat may be found within the forested areas to the north of the project area, as well as unmowed grassland. No signs of Fisher activity were seen around cypress trees near the project footprint.

Potential Impact/Mitigation: No large trees are planned to be removed with this project. The property contains many openings, and would not be prime habitat for the fisher. Potential habitat may occur offsite within the parcel, but no significant impact is expected.

Humboldt mountain beaver (Aplodontia rufa humboldtiana)

Special Status: G5TNR, SNR

Habitat/Life-history Requirements: Found throughout the Cascade, Klamath, and Sierra Nevada Ranges. Distribution often is scattered; populations local and uncommon in the Sierra Nevada and other interior areas. Mountain beavers occur in dense riparian-deciduous and open, brushy stages of most forest types. Typical habitat in the Sierra Nevada is montane riparian; in the Coast Ranges, most populations occur below 900 m (2700 ft) (Borrecco and Anderson 1980). Frequent open and intermediate-canopy coverage with a dense understory near water. Deep, friable soils are required for burrowing, along with a cool, moist microclimate. Burrows are located in deep soils in dense thickets, preferably near a stream or spring.

Status within the Project Area: The project area does not contain mountain beaver habitat, but potential habitat may be found within the forested areas and wet areas to the north of the project area, as well as unmowed grassland. No signs of mountain beaver activity were seen around cypress trees near the project footprint.

Potential Impact/Mitigation: No impact to soils near wet areas or within dense forested areas will occur with planned project activity. Potential habitat may occur offsite within the parcel, but no significant impact is expected.

Hoary bat (Lasiurus cinereus)

Special Status: G3G4, S4

Habitat/Life-history Requirements: The hoary bat is the most widespread North American bat. May be found at any location in California, although distribution patchy in southeastern deserts. This common, solitary species winters along the coast and in southern California, breeding inland and north of the winter range. Habitats suitable for bearing young include all woodlands and forests with medium to large-size trees and dense foliage.

Status within the Project Area: The large cypress trees adjacent to the project area may contain suitable habitat for breeding hoary bats.

Potential Impact/Mitigation: No trees are to be removed during project activity, however noise from project activity may disturb any bats present. It is recommended that trees within 100' of the project area be surveyed for bat activity.

Long-eared myotis (*Myotis evotis*)

Special Status: G5, S3

Habitat/Life-history Requirements: The long-eared myotis is widespread in California, but generally is believed to be uncommon in most of its range. It avoids the arid Central Valley and hot deserts, occurring along the entire coast and in the Sierra Nevada, Cascades, and Great Basin from the Oregon border south through the Tehachapi Mts. to the Coast Ranges. This species has been found in nearly all brush, woodland, and forest habitats, from sea level to at least 9000 ft, but coniferous woodlands and forests seem to be preferred.

Status within the Project Area: The large cypress trees adjacent to the project area may contain suitable habitat for breeding long-eared myotis.

Potential Impact/Mitigation: No trees are to be removed during project activity, however noise from project activity may disturb any bats present. It is recommended that trees within 100' of the project area be surveyed for bat activity.

Amphibians and Reptiles

Northern red-legged frog (Rana aurora)

Special Status: CDFW "Species of Special Concern"; NatureServe Ranks: G4, S3

Habitat/Life-history Requirements: Found in riparian areas and permanent bodies of relatively quiet water such as ponds, pools along streams, reservoirs, springs, lakes and marshes. This frog is highly aquatic, preferring shorelines with extensive vegetation for terrestrial cover and escaping to pools 3 feet or deeper. Status within the Project Area: The project area is upwards of 400' from any potential watercourse and sits upson a high point in the parcel. It is unlikely that red-legged frogs would be present in this area. Potential Impact/Mitigation: None are reported on CNDDB within the project area or within the 0.7 mile buffer. The project footprint does not intersect or impact areas of high quality Northern red-legged frog habitat.

Fishes

No suitable year-round watercourse exists within or adjacent to the project area, thus no fishes will be present or impacted by project activity.

Invertebrates

Obscure bumble bee (Bombus caliginosus)

Special Status: CDFW Special Animals List; NatureServe Ranks: G2G3, S1

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/Mitigation: The property has the potential to support many native pollinators, however, the project footprint currently consists of a large mowed field with minimal nectar sources. The project is not expected to have significant impacts on Bombus species.

Western bumble bee (Bombus occidentalis)

Special Status: State Candidate Endangered, NatureServe Ranks: G3, S1

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/Mitigation: The property has the potential to support many native pollinators, however, the project footprint currently consists of a large mowed field with minimal nectar sources. The project is not expected to have significant impacts on Bombus species.

Appendix A: Photos of Project Area



Picture 1. View of the project area looking directly east. Note the mowed vegetation and cypresses located 90 feet from the project area boundary. Traffic cones visible in the picture delineate the project footprint.



Picture 2. View of the project area looking south. Note the mowed vegetation and cypresses located 40 feet from the project area boundary. Traffic cones visible in the picture delineate the project footprint



Picture 3. View of the project area looking southeast. Note the mowed vegetation short trees adjacent to Table Bluff Rd. Traffic cones visible in the picture delineate the project footprint.

Appendix B: Maps

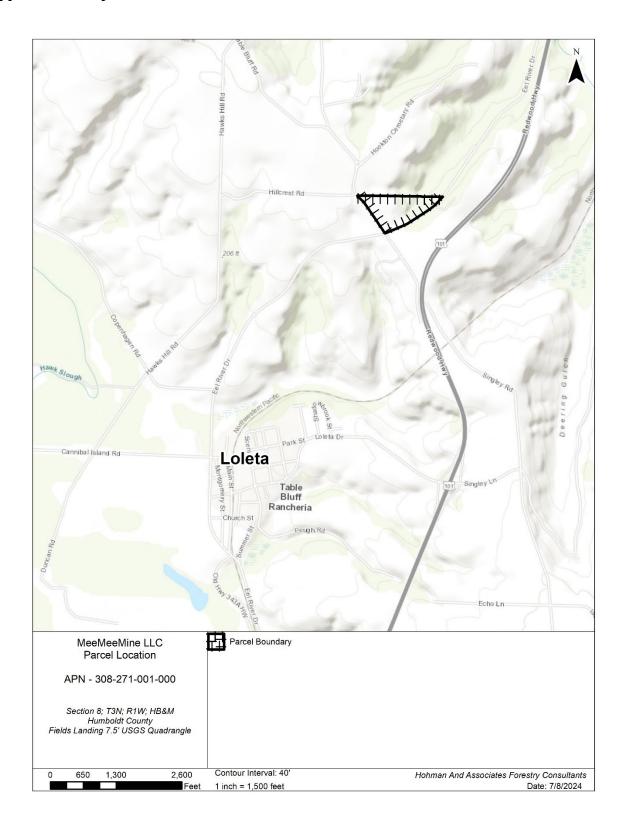


Figure 1. Location of MeeMeeMine LLC parcel

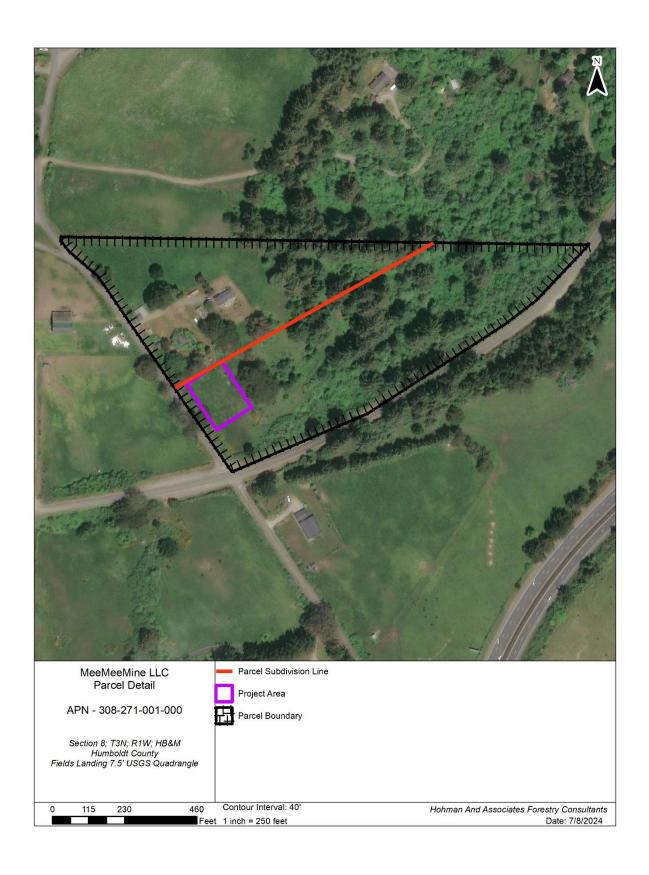


Figure 2. Detail map of parcel division and project area

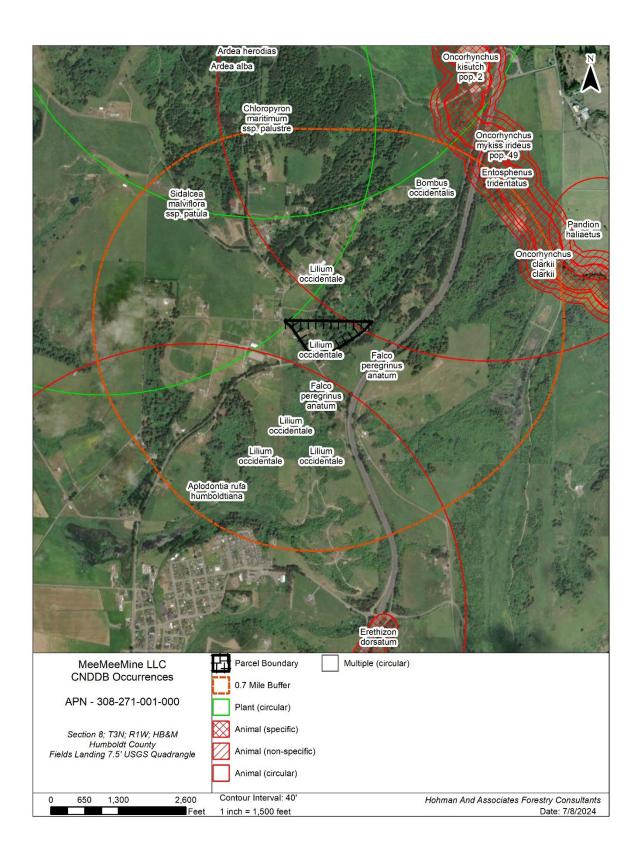


Figure 3. CNDDB occurrences map of 0.7 mile buffer surrounding parcel

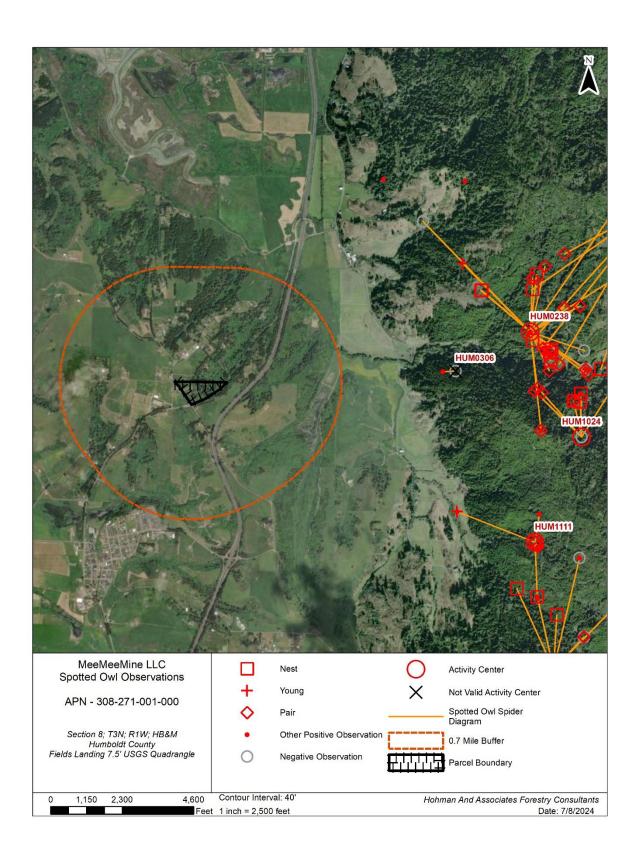


Figure 4. NSO activity centers in the vicinity of the parcel

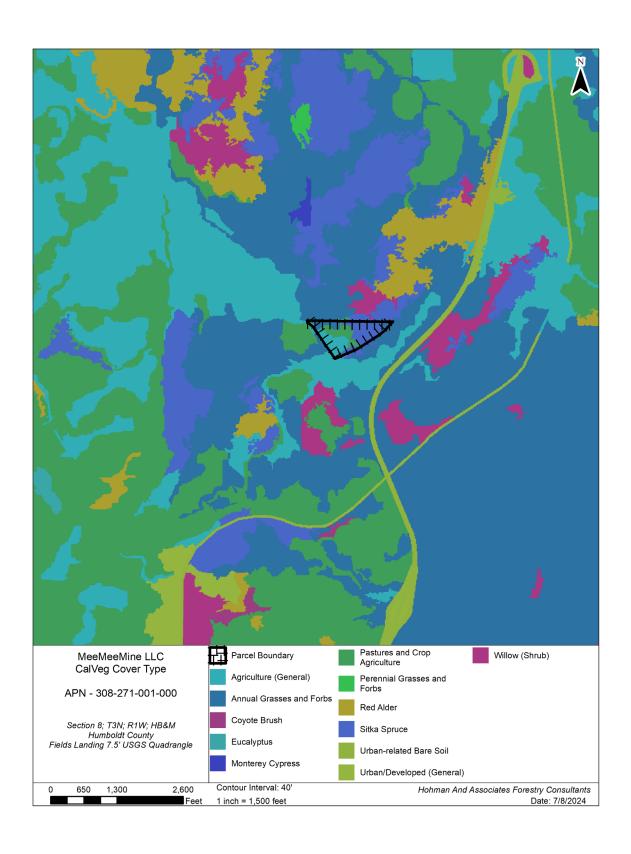


Figure 5. Calveg cover type of area surrounding MeeMeeMine parcel



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California Natural Diversity Database

Query Criteria: Quad IS (Fields Landing (4012462) OR Cannibal Island (4012463) OR Eureka (4012472) OR Arcata South (4012471) OR Hydesville (4012451) OR Fortuna (4012452) OR Ferndale (4012453))

				Elev.		Elen	nent (Эсс.	Ranl	(S		Populatio	n Status	Presence)	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range	Total EO's	Α	В	С	D	Х	U	Historic > 20 yı	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Abronia umbellata var. breviflora pink sand-verbena	G4G5T2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	5 236	6 [,] S:10		6	1	1	0	2	4	6	10	0	
Accipiter cooperii Cooper's hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	300 300	118 S:1	1	0	0	0	0	0	1	0	1	0	
Accipiter striatus sharp-shinned hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	200 1,200	22 S:3	0	0	2	2 0	0	1	1	2	3	0	(
Acipenser medirostris pop. 1 green sturgeon - southern DPS	G2T1 S1	Threatened None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern IUCN_EN-Endangered	0	14 S:1	0	1	0	0	0	0	C	1	1	0	
Actinemys marmorata northwestern pond turtle	G2 SNR	Proposed Threatened None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	600	1082 S:10	0	2	1	C	0	7	2	8	10	0	
Agelaius tricolor tricolored blackbird	G1G2 S2	None Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFWS_BCC-Birds of Conservation Concern	53 53	960 S:1	0	0	0	0	1	0	1	0	0	1	(
Ammodramus savannarum grasshopper sparrow	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	22 22	27 S:1	0	1	0	0	0	0	C	1	1	0	(
Anodonta californiensis California floater	G3 S2?	None None	USFS_S-Sensitive	41 41	S.		0	0	C	0	1	1	0	1	0	(
Anomobryum julaceum slender silver moss	G5? S2	None None	Rare Plant Rank - 4.2	320 320	S		0	0	C	0	1	1	0	1	0	



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				Elev.		Elen	ent (Occ.	Ranl	(S		Population Statu	Preser	nce	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range	Total EO's	Α	В	С	D	х	U	Historic Recen	r Exta	Poss. nt Extirp.	Extirp
Antrozous pallidus pallid bat	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	40 40	420 S:1	0	0	0	O	0	1	1	0	1	0
Aplodontia rufa humboldtiana	G5TNR	None		50	28 S:14		0	0	0	0	14	13	1	14	0
Humboldt mountain beaver	SNR	None		1,700	5:14										
Arborimus pomo Sonoma tree vole	G3 S3	None None	CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	40 1,900	222 S:18	0	0	0	0	0	18	18	0	18	0
Ardea alba great egret	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	4 194	43 S:6	1	0	0	0	0	5	4	2	6	0
Ardea herodias great blue heron	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	4 600	156 S:12	3	0	1	O	1	7	9	3	11	1
Ascaphus truei Pacific tailed frog	G4 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	100 1,027	491 S:8	0	0	0	0	0	8	6	2	8	0
Astragalus pycnostachyus var. pycnostachyus coastal marsh milk-vetch	G2T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		24 S:1	0	0	0	O	0	1	1	0	1	0
Bombus caliginosus	G2G3	None	IUCN_VU-Vulnerable	0			0	0	0	0	6	6	0	6	0
obscure bumble bee	S1S2	None		2,100	S:6	<u>L</u>									
Bombus occidentalis western bumble bee	G3 S1	None Candidate Endangered	IUCN_VU-Vulnerable USFS_S-Sensitive	15 2,100	306 S:9	0	0	0	C	0	9	9	0	9	0
Brachyramphus marmoratus marbled murrelet	G3 S2	Threatened Endangered	CDF_S-Sensitive IUCN_EN-Endangered	600 1,800	0.6		2	0	C	0	4	6	0	6	0



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				Elev.		Ele	ment	Occ.	Rank	(S		Populatio	n Status	Presence	1	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range	Total EO's		В	С	D	х	U	Historic		Extant	Poss. Extirp.	Extirp.
Cardamine angulata	G4G5	None	Rare Plant Rank - 2B.1	310			0 0	C	0	0	1	1	0	1	0	0
seaside bittercress	S3	None		310	S:	1										
Carex arcta northern clustered sedge	G5 S1	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	500 500	13 S:1	(0 0	C	0	0	1	1	0	1	0	0
Carex leptalea bristle-stalked sedge	G5 S1	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	300 300	S:1	8	0 0	C	0	0	1	1	0	1	0	0
Carex lyngbyei Lyngbye's sedge	G5 S3	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	0 20	6.0		2 3	10	0	0	6	10	11	21	0	0
Carex praticola northern meadow sedge	G5 S2	None None	Rare Plant Rank - 2B.2		1 S:		0 0	C	0	0	1	1	0	1	0	0
Castilleja ambigua var. humboldtiensis Humboldt Bay owl's-clover	G4T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCBG-UC Botanical Garden at Berkeley	5 10	S-2		2 6	4	. 0	0	8	13	7	20	0	0
Castilleja litoralis	G3	None	Rare Plant Rank - 2B.2	50			0 0	C	0	0	5	4	1	5	0	0
Oregon coast paintbrush	S3	None		500	S:	5										
Charadrius montanus mountain plover	G3 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened USFWS_BCC-Birds of Conservation Concern	7	94 S:2		0 0	C	0	0	2	0	2	2	0	0
Charadrius nivosus nivosus western snowy plover	G3T3 S3	Threatened None	CDFW_SSC-Species of Special Concern	10 23	S.		0 1	C	0	0	2	1	2	3	0	0
Chloropyron maritimum ssp. palustre Point Reyes salty bird's-beak	G4?T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	5 10	S·1		2 6	1	1	0	6	9	7	16	0	0
Cicindela hirticollis gravida sandy beach tiger beetle	G5T2 S2	None None		10 10	S.		0 0	C	0	1	0	1	0	0	0	1



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				Elev.			Elem	ent (Осс.	Rank	S		Populatio	n Status	Presence	1	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range (ft.)	Total EO's		Α	В	С	D	Х	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Circus hudsonius northern harrier	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern		82 S:1		0	0	1	0	0	0	C	1	1	O	0
Clarkia amoena ssp. whitneyi Whitney's farewell-to-spring	G5T1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	20 20	S·1	8	0	0	0	0	0	1	1	0	1	C	0
Coastal Terrace Prairie Coastal Terrace Prairie	G2 S2.1	None None		160 160		8 S:1	0	1	0	0	0	0	1	0	1	0	0
Coccyzus americanus occidentalis western yellow-billed cuckoo	G5T2T3 S1	Threatened Endangered	BLM_S-Sensitive USFS_S-Sensitive	10 10		165 S:2	1	0	0	0	0	1	С	2	2	C	0
Collinsia corymbosa round-headed collinsia	G1 S1	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden		13 S:1		0	0	0	0	0	1	1	0	1	O	0
Corynorhinus townsendii Townsend's big-eared bat	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	30 250	635 S:4		0	0	0	0	0	4	4	0	4	O	0
Coturnicops noveboracensis yellow rail	G4 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	4 24	45 S:4		0	0	0			4	3	1	4	C	0
Downingia willamettensis Cascade downingia	G4 S2	None None	Rare Plant Rank - 2B.2	48 335		8 S:4	0	0	0	0	0	4	4	0	4	0	0
Egretta thula snowy egret	G5 S4	None None	IUCN_LC-Least Concern	47		20 S:3	1	0	0	0	0	2	1	2	3	С	0



California Department of Fish and Wildlife



				Elev.		Elen	nent	Осс.	Rank	(S		Population	Status	Presence)	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range (ft.)	EO's	Α	В	С	D	х	U	Historic > 20 yr	Recent	Extant	Poss. Extirp.	Extirp.
Elanus leucurus white-tailed kite	G5 S3S4	None None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	60 60	190 S:2	0	0	0	0	0	2	0	2	2		0
Entosphenus tridentatus Pacific lamprey	G4 S3	None None	AFS_VU-Vulnerable BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	14 43	S:5	0	0	0	0	0	5	1	4	5	(0
Erethizon dorsatum North American porcupine	G5 S3	None None	IUCN_LC-Least Concern	13 1,490	0.12		0	0	0	0	13	4	9	13	(0
Erysimum menziesii Menzies' wallflower	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	5 30	19 S:5	1	2	1	1	0	0	1	4	5	(0 0
<i>Erythronium revolutum</i> coast fawn lily	G4G5 S3	None None	Rare Plant Rank - 2B.2 SB_UCSC-UC Santa Cruz		172 S:1	0	0	0	0	0	1	1	0	1	(0
Eucyclogobius newberryi tidewater goby	G3 S3	Endangered None	AFS_EN-Endangered CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	0 12	127 S:11	1	1	0	1	0	8	1	10	11	(0
Falco peregrinus anatum American peregrine falcon	G4T4 S3S4	Delisted Delisted	CDF_S-Sensitive	40 586	6.5		5	0	0	0	2	1	7	8	(0
Fissidens pauperculus minute pocket moss	G3? S2	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	100 650	C-/		0	0	0	0	4	4	0	4	. (0
Gilia capitata ssp. pacifica Pacific gilia	G5T3 S3	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	150 2,100	91 S:5	0	1	0	0	0	4	4	1	5	(0



California Department of Fish and Wildlife



				Elev.		E	Eleme	ent C	Occ.	Rank	(S		Populatio	on Status	Presence)	
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range (ft.)	Total EO's		Α	В	С	D	х	U	Historic > 20 y	Recent r<= 20 yr	Extant	Poss. Extirp.	Extirp.
Gilia millefoliata dark-eyed gilia	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	5 36	54 S:9		0	4	1	0	0	4		7 2	9	0	0
Haliaeetus leucocephalus bald eagle	G5 S3	Delisted Endangered	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern USFS_S-Sensitive	29 580	333 S:3		1	1	0	0	0	1		0 3	3	0	0
Hesperevax sparsiflora var. brevifolia short-leaved evax	G4T3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	10 15	72 S:7		0	2	1	0	0	4		2 5	7	0	0
Lampetra richardsoni western brook lamprey	G4G5 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	35 350	C-1	4	0	0	0	0	0	4		1 3	4	0	0
Lasiurus cinereus hoary bat	G3G4 S4	None None	IUCN_LC-Least Concern		238 S:1		0	0	0	0	0	1		1 0	1	0	0
Lasthenia californica ssp. macrantha perennial goldfields	G3T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden		59 S:1		0	0	0	0	0	1		1 0	1	0	0
Lathyrus japonicus seaside pea	G5 S2	None None	Rare Plant Rank - 2B.1 IUCN_LC-Least Concern	5 200	24 S:2		0	0	0	0	0	2		2 0	2	0	0
Lathyrus palustris marsh pea	G5 S2	None None	Rare Plant Rank - 2B.2	10 10		13 S:2	0	0	0	0	0	2		2 0	2	0	0



California Department of Fish and Wildlife



				Elev.		E	Elem	ent (Осс.	Rank	s		Populatio	า Status	Presence		
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range	Total EO's		Α	В	С	D	х	U	Historic > 20 yr		Extant	Poss.	Extirp.
Layia carnosa beach layia	G2 S2	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden	40	25 S:4		0	3	1	0	0	0	1	3	4	(0
<i>Lilium occidentale</i> western lily	G1G2 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_BerrySB-Berry Seed Bank	30 350	16 S:8		0	3	0	1	3	1	3	5	5	3	3 0
<i>Lycopodium clavatum</i> running-pine	G5 S3	None None	Rare Plant Rank - 4.1	180 1,860	0	120 3:23	2	7	10	3	0	1	23	0	23	(0
Margaritifera falcata western pearlshell	G3G4 S1S2	None None	IUCN_NT-Near Threatened	75 75		78 S:1	0	0	0	0	0	1	1	0	1	(0
<i>Martes caurina humboldtensis</i> Humboldt marten	G4G5T1 S1	Threatened Endangered	CDFW_SSC-Species of Special Concern USFS S-Sensitive	140 1,100	44 S:2		0	0	0	0	0	2	2	0	2	(0
Mitellastra caulescens leafy-stemmed mitrewort	G5 S4	None None	Rare Plant Rank - 4.2	1,200 1,200		21 S:1	0	1	0	0	0	0	1	0	1	C	0
Monotropa uniflora ghost-pipe	G5 S2	None None	Rare Plant Rank - 2B.2 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	100 100	115 S:1		0	0	0	0	0	1	1	0	1	(0
<i>Montia howellii</i> Howell's montia	G3G4 S2	None None	Rare Plant Rank - 2B.2	50 1,600	0	123 5:16	0	6	2	3	3	2	6	10	13	3	3 0
<i>Myotis evotis</i> long-eared myotis	G5 S3	None None	BLM_S-Sensitive IUCN_LC-Least Concern	40 40	139 S:1		0	1	0	0	0	0	1	0	1	(0
Nannopterum auritum double-crested cormorant	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	10 10	39 S:1		0	0	0	0	0	1	1	0	1	C	0
Northern Coastal Salt Marsh Northern Coastal Salt Marsh	G3 S3.2	None None		0	s	53 3:11	1	0	0	0	0	10	11	0	11	(0
Nycticorax nycticorax black-crowned night heron	G5 S4	None None	IUCN_LC-Least Concern	4 194		37 S:8	1	0	0	0	0	7	6	2	8	(0



California Department of Fish and Wildlife



						Elan	nont	000	Dank	_		Donulation	Status	Presence		
				Elev.		⊏ien	nent	Осс.	Kank	S	l	Population Status				T
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	` '	EO's	Α	В	С	D	х	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Oenothera wolfii	G2	None	Rare Plant Rank - 1B.1	10	29 2.4	0	0	0	0	0	1	1	0	1	0	0
Wolf's evening-primrose	S1	None	SB_BerrySB-Berry Seed Bank	10	S:1											
Oncorhynchus clarkii clarkii	G5T4	None	AFS_VU-Vulnerable	5	45 S:10		0	1	0	0	9	5	5	10	0	0
coast cutthroat trout	S3	None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	120	5:10											
Oncorhynchus kisutch pop. 2	G5T2Q	Threatened	AFS_TH-Threatened	35			0	2	0	0	3	0	5	5	0	0
California ESU	S2	Threatened		117	S:	5										
Oncorhynchus mykiss irideus pop. 48	G5T2Q	Threatened	AFS_TH-Threatened	200	10		0	1	1	0	0	0	2	2	0	0
steelhead - northern California DPS summer- run	S2	Endangered		400	S:2	2										
Oncorhynchus mykiss irideus pop. 49	G5T3Q	Threatened	AFS_TH-Threatened	16			0	6	3	0	1	3	7	10	0	0
steelhead - northern California DPS winter- run	S3	None	CDFW_SSC-Species of Special Concern	578	S:10											
Packera bolanderi var. bolanderi	G4T4	None	Rare Plant Rank - 2B.2	500			2	0	2	0	0	1	3	4	0	0
seacoast ragwort	S2S3	None		1,000	S:4	1										
Pandion haliaetus	G5	None	CDF_S-Sensitive	10	504	14	24	6	2	1	28	72	3	74	1	0
osprey	S4	None	CDFW_WL-Watch List IUCN_LC-Least Concern	1,240	S:75											
Pekania pennanti	G5	None	BLM_S-Sensitive	555	555	C	1	0	0	0	1	0	2	2	0	0
Fisher	S2S3	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS S-Sensitive	1,510	S:2											
Polemonium carneum	G3G4	None	Rare Plant Rank - 2B.2	2,000	16	3 0	0	0	0	0	1	1	0	1	0	0
Oregon polemonium	S2	None		2,000	Q.,	I										
Puccinellia pumila	G5	None	Rare Plant Rank - 2B.2	15			0	0	0	0	1	1	0	1	0	0
dwarf alkali grass	SH	None		15	S:											
Rallus obsoletus obsoletus	G3T1	Endangered	CDFW_FP-Fully Protected		99 S:1	0	0	0	0	1	0	1	0	0	0	1
California Ridgway's rail	S2	Endangered	Protected		0.1											
Rana aurora	G4	None	CDFW_SSC-Species	4	292	0	4	2	1	0	51	18	40	58	0	0
northern red-legged frog	S3	None	of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	1,400	S:58											



California Department of Fish and Wildlife



				Elev.		ŀ	Elem	ent (Осс.	Rank	(S		Populatio	n Status	Presence		
Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Range (ft.)	Total EO's		Α	В	С	D	х	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp
Rana boylii pop. 1	G3T4	None	BLM_S-Sensitive	7	1608		4	1	0	0	0	17	10	12	22	0	
foothill yellow-legged frog - north coast DPS	S4	None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	2,100	S:22												
Rhyacotriton variegatus	G3?	None	CDFW_SSC-Species	200	416		0	0	1	0	0	7	5	3	8	0	
southern torrent salamander	S2S3	None	of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	1,200	S:8												
Riparia riparia	G5	None	BLM_S-Sensitive	13	299		2	0	0	0	0	4	2	2 4	6	0	
bank swallow	S3	Threatened	IUCN_LC-Least Concern	130	S:6												
Scaphinotus behrensi	G2G4	None		400		4	0	0	0	0	0	1	1	0	1	0	
Behrens' snail-eating beetle	S2S4	None		400	,	S:1											
Sidalcea malachroides	G3	None	Rare Plant Rank - 4.2	100		36	2	4	7	10	0	5	28	0	28	0	
maple-leaved checkerbloom	S3	None		1,650	S	:28											
Sidalcea malviflora ssp. patula	G4G5T2	None	Rare Plant Rank - 1B.2	50	60		1	3	2	0	0	2	2	. 6	8	0	
Siskiyou checkerbloom	S2	None	SB_UCSC-UC Santa Cruz	2,200	S:8												
Sidalcea oregana ssp. eximia	G5T1	None	Rare Plant Rank - 1B.2	20		19 S:4	0	0	1	0	0	3	3	1	4	0	
coast checkerbloom	S1	None		150		5:4											
Silene scouleri ssp. scouleri	G5T4T5	None	Rare Plant Rank - 2B.2			23	0	0	0	0	0	1	1	0	1	0	
Scouler's catchfly	S2S3	None			;	S:1											
Sitka Spruce Forest	G1	None		160		4	0	0	1	0	0	0	1	0	1	0	
Sitka Spruce Forest	S1.1	None		160	'	S:1											
Spergularia canadensis var. occidentalis	G5T4	None	Rare Plant Rank - 2B.1	5		4	0	0	1	0	0	3	3	1	4	0	
western sand-spurrey	S1	None		10	;	S:4											
Spirinchus thaleichthys	G5	Proposed	IUCN_LC-Least	0		46	0	0	0	0	0	7	6	1	7	0	
longfin smelt	S1	Endangered Threatened	Concern	50		S:7											
Sulcaria spiralifera	G3G4	None	Rare Plant Rank - 1B.2	30		18	0	0	0	0	0	2	1	1	2	0	
twisted horsehair lichen	S2	None	BLM_S-Sensitive	43		S:2											
Thaleichthys pacificus	G5	Threatened	CDFW_SSC-Species		10 S:2		0	0	0	0	1	1	2	2 0	1	1	
eulachon	S1	None	of Special Concern IUCN_LC-Least Concern		o:2												



California Department of Fish and Wildlife



				Elev.		Elem	ent (Осс.	Rank	s		Population	n Status	Presence			
Name (Scientific/Common)		Listing Status (Fed/State)	Other Lists	Range (ft.)	Total EO's	Α	В	С	D	х	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.	
Usnea longissima	G4		Rare Plant Rank - 4.2	290		-	6	7	10	0	13	36	0	36	0	0	
Methuselah's beard lichen	S4	None	BLM_S-Sensitive	2,100	S:36												
Viola palustris	G5	None	Rare Plant Rank - 2B.2	100	-	-	0	0	0	0	2	2	0	2	0	0	
alpine marsh violet	S1S2	None		100	S:2												