# Attachment H

- Caltrans Biological Resources Evaluation Memo for 01-0B220; January, 2020
- 2) Environmentally Sensitive Habitat Area (ESHA)
  Assessment for 01-0B220;
  August, 2020
- 3) Addendum to the Biological Resources Evaluation Memo and ESHA Assessment for 01-0B220; May, 2022

# Memorandum

Making Conservation a California Way of Life.

To:

Jennifer Gagnon, Coordinator

Associate Environmental Planner

North Region Environmental-E4

Date:

January 31, 2020

File:

MEN-1/ Post Miles 59.8 - 62.1

EA 01-0B220

EFIS No. 0112000110

From:

Tracy Walker, Biologist Chory Mallier Associate Environmental Planner (NS) North Region Environmental Planner (NS)

North Region Environmental E4

Subject: BIOLOGICAL RESOURCES EVALUATION MEMO - Fort Bragg ADA Improvement Project

### **Project Description**

The Fort Bragg Americans with Disabilities Act (ADA) Improvement Project (project) proposes to upgrade a section of State Route (SR) 1 to current ADA standards. This project is in the ADA Compliance Program of the State Highway Operation and Protection Program (SHOPP). It is located on SR 1 in Mendocino County in the city of Fort Bragg (Attachment A), beginning at the intersection of SR 20 north to Elm Street, with a gap in work along the Noyo River Bridge. The proposed scope of work entails replacing and installing retaining walls, curb ramps, sidewalks, driveways, drainage inlets, culverts, and pavement markings at specified locations along SR 1. This project is needed to address ADA deficiencies and comply with conditions of the 2010 ADA lawsuit settlement. This segment of SR 1 within the city of Fort Bragg was identified as a priority location for ADA upgrades due to its urban nature, traffic volumes, and pedestrian traffic. Based on the current project description as described below, Caltrans has determined this action would not affect special-status taxa, sensitive natural communities, wetlands, jurisdictional waters, essential fish habitat or federally designated critical habitat.

There is currently one alternative for the proposed project. This alternative proposes to construct over 35 curb ramps, 0.40 mile of new sidewalks, 0.16 mile of new retaining wall, reconstruct 7 existing driveways, and install 12 new drainage inlets with two of those locations connecting inlets with new culverts. The retaining wall would be approximately 10 feet tall at its highest point near SR 20 and would reduce in height moving north. The wall would be approximately 1' wide with a concrete footing that is 7' wide and 1.25' in depth. The maximum depth of excavation is estimated to be 3' from finished grade. The various project work locations total approximately 2.3 miles of construction (Attachment B).

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The new culverts will be 24-inch-diameter corrugated steel pipe (CSP). Staging is anticipated to utilize existing paved shoulders and developed gravel turnouts.

All work would be within the existing Caltrans right of way (ROW). Installation of new sidewalks, driveways, and the retaining wall would involve minor clearing and grubbing of soil and vegetation. The following equipment would be utilized to perform the various construction activities: bulldozer, excavator, saw cutter, slip form paving machine, concrete mixer, and support trucks. The following steps are required to complete the various types of work:

# 1) Construction of retaining wall, curbs, gutters, and sidewalks:

- Set up temporary traffic control consisting of portable delineators and traffic signs for a single lane closure as required for safety.
- Prepare the existing subgrade by removing the base material to a depth of three to six inches below the subgrade elevation.
- Backfill the subgrade with earth, sand, or gravel to produce a stable foundation.
- Apply water to the subgrade and compact it before placing concrete.
- Short segments of the curb would be placed using the fixed form method with temporary form work.
- Long segments of the curb would be placed using extrusion and slip molding. The slip form paving machine would be operated in the closed traffic lane, along with a concrete truck.
- Construct the new sidewalk, retaining wall, curb, and gutters.
- Install high visibility crosswalk and highway pavement markings.
- Remove temporary traffic control.

#### 2) Reconstructing curb ramps and driveways:

- Set up temporary traffic control consisting of portable delineators and traffic signs for a single lane closure as required for safety.
- Saw-cut the existing sidewalk.
- Remove the existing curb ramp or driveway.
- Prepare the existing subgrade by removing the base material to a depth of three to six inches below the subgrade elevation.
- Backfill the subgrade with earth, sand, or gravel to produce a stable foundation.
- Apply water to the subgrade and compact it before placing concrete.

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- Construct the new curb ramp or driveway.
- Install high visibility crosswalk and highway pavement markings.
- Remove temporary traffic control.

### 3) Construction of new drainage inlets and 24-inch-diameter culverts:

- Set up temporary traffic control consisting of portable delineators and traffic signs for a single lane closure as required for safety.
- Saw-cut and remove the existing pavement.
- Excavate a trench to the required grade.
- Install the drainage grate or the CSP culvert with a lifting crane.
- Backfill the trench with required material.
- Dispose of excess material at an appropriate disposal site per Caltrans Standard Specifications.
- Replace the roadway structural section and install high visibility crosswalk pavement markings.
- Remove temporary traffic control.

# Standard Measures and Best Management Practices (BMPs)

In compliance with several state and federal laws, Caltrans implements standard measures during construction. These standard measures and Best Management Practices (BMPs) are identified in Caltrans Standard Specifications, Standard Special Provisions, other manuals, or may otherwise be standard business practices. The following standard measures and BMPs would be included as part of the project:

- Equipment would be inspected daily for leaks and completely cleaned of any external petroleum products, hydraulic fluid, coolants, and other deleterious materials prior to operating equipment.
- Measures will be in place to prevent construction equipment effluents from contaminating soil or waters in the construction site, such as absorbent pads.
- Maintenance and fueling of construction equipment and vehicles would occur at least 50 feet away from the ordinary high-water mark (OHWM) of surface water or the edge of sensitive habitats (e.g., wetlands).
- The contractor would be required to develop and implement site-specific BMPs and emergency spill controls.

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- Water in contact with setting concrete would be pumped into a tank truck and disposed at an approved disposal site or settling basin.
- All unused material from the project would be disposed off-site. The Caltrans Resident Engineer would be responsible for ensuring all requirements for disposal of material are met by the contractor.
- If bird nests are found incidentally, buffer areas would be established around active nests with input from the California Department of Fish and Wildlife (CDFW). Construction activities that may potentially disturb birds would not occur within the buffer area. The buffer areas would be marked as environmentally sensitive and nests would be monitored for disturbance behaviors by a qualified biologist.

### **Study Methods**

Regional lists of special status wildlife and plant species were created by querying the following databases:

- United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) (USFWS 2020) (Attachment E)
- National Marine Fisheries Service (NMFS) Species List Tools (NMFS 2020)
   (Attachment F)
- California Natural Diversity Database (CNDDB), California Department of Fish and Wildlife (CDFW 2020) (Attachment G)
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2020) (Attachment H)

State and Federal Statutes considered for this evaluation:

- Section 1602 of the CA Fish & Game Code
- Section 401 Water Quality Certification
- Sections 402 and 404 of the Clean Water Act
- Sections 9 and 10 of the Rivers and Harbors Act
- California Coastal Act
- Federal Endangered Species Act
- California Endangered Species Act
- Migratory Bird Treaty Act

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- Fish and Wildlife Coordination Act
- Native Plant Protection Act
- Magnuson-Stevens Fishery Conservation and Management Act
- Executive Order 11990, Protection of Wetlands
- Executive Order 12962, Recreational Fisheries
- Executive Order 13112, Invasive Species

CNDDB and CNPS databases were queried by location using the United States Geological Survey 7.5-minute quadrangles that included *Fort Bragg* (project site), as well as the following five quadrangles that surround the project site: *Inglenook*, *Dutchman's Knoll*, *Noyo Hill*, *Mathison Peak*, and *Mendocino*.

The USFWS National Wetlands Inventory (NWI) database was reviewed to determine if documented wetlands exist within the project ESL (USFWS 2019). To determine habitat types present at the site, the *Jepson Manual: Vascular Plants of California*, site photos taken on December 6, 2018, May 10, 2019, and June 13, 2019, aerial imagery, and road-view images (Google 2018) were used. Due to their status as federally endangered, a habitat assessment for the Behren's silverspot butterfly (BSSB) (*Speyeria zerene behrensii*) and lotis blue butterfly (LBB) (*Lycaeides argyrognomon lotis*) host and plants was conducted by Caltrans biologists Dawn Graydon and Tracy Walker on March 22, 2019, and May 10, 2019. Rare plant surveys and wetland investigations were conducted by Caltrans biologists Tracy Walker, Jeremy Pohlman, Dawn Graydon, and Annie Allen on May 10, 2019, and June 13, 2019.

# Resources Evaluated and Effects Findings

#### **Project Setting**

The project is in the North Coast Range ecoregion (Baldwin 2012) in Mendocino County. The existing environment within the biological study area (BSA) is characterized by open lands dominated by grasses and forbs with interspersed coastal scrub habitat consisting of low shrubs and trees (Attachment D).

The project area along SR 1 and SR 20 within the environmental study limits (ESL) includes managed highway landscaped areas comprising non-native annual grasslands and ornamental trees. To the east of the project is the urban center of Fort Bragg. South of the project ESL

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is SR 20, semi-rural industrial areas, and Hare Creek drainage. Most of the land bordering the project to the west is light industrial, including a large parcel owned and operated by Georgia Pacific Company. The Pudding Creek drainage forms the northern boundary of the project area.

# Federal and State Listed Species

A list of special status species and their potential to occur can be found in **Table 1**. While not anticipated to be present within the ESL, the following federally and state *endangered*, *threatened*, or *candidate* plant and wildlife species have been recorded within the project quadrangle and/or the surrounding quadrangles of the project area (see Attachments E and F). There is no essential fish habitat or designated critical habitat within the ESL; therefore, the project would have "*no effect*" on these species or their critical habitat:

- Humboldt County milk-vetch (*Astralus agicidus*)
- Menzies' wallflower (*Erysimum menziesii*)
- Monterey clover (*Trifolium trichocalyx*)
- Howell's spineflower (Chorizanthe howellii)
- Roderick's fritillary (Fritillaria roderickii)
- Marbled murrelet (Brachyramphus marmoratus)
- Northern spotted owl (*Strix occidentalis caurina*)
- Western yellow-billed cuckoo (Coccyzus americanus occidentalis)
- Bald eagle (*Haliaeetus leucocephalus*)
- Western snowy plover (*Charadrius alexandrinus nivosus*)
- California red-legged frog (*Rana draytonii*)
- Tidewater goby (*Eucyclogobius newberryi*)
- Behren's silverspot butterfly (*Speyeria zerene behrensii*)
- Lotis blue butterfly (*Plebejus idas lotis*)
- Western bumble bee (*Bombus occidentalis*)
- Point Arena mountain beaver (*Aplodontia rufa nigra*)
- West Coast Distinct Population Segment (DPS) fisher (*Pekania pennanti*)
- Southern DPS green sturgeon (*Acipenser medirostris*)

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- Central California Coast coho salmon Environmentally Significant Unit (ESU) (*Oncorhynchus kisutch*)
- California Coastal Chinook salmon ESU (*Oncorhynchus tshawytscha*)
- Northern California steelhead DPS (Oncorhynchus mykiss)

Habitat surveys for the endangered butterfly species conducted in spring of 2019 following the USFWS Draft Guidelines (USFWS 2006) resulted in no *Viola adunca, Hosackia gracilis*, or other potential nectar source plants within the ESL or within 330 feet (100 meters) of the project.

Several *federally threatened or endangered* marine and pelagic species are within the broader project vicinity (see Attachments E and F); however, as these species are not found in the terrestrial habitats proposed for this project, there is no potential for project work to harass or harm. Therefore, it has been determined the project would have "*no effect*" on:

- Short-tailed albatross (*Phoebastria albatrus*)
- Guadalupe fur seal (Arctocephalus townsendi)
- East Pacific green sea turtle (*Chelonia mydas*)
- Leatherback sea turtle (*Dermochelys coriacea*)
- Olive ridley sea turtle (*Lepidochelys olivacea*)
- Sei whale (*Balaenoptera borealis*)
- Blue whale (*Balaenoptera musculus*)
- Fin whale (*Balaenoptera physalus*)
- North Pacific right whale (Eubalaena japonica)
- Humpback whale (Megaptera novaeangliae)
- Southern Resident killer whale (*Orcinus orca*)
- Sperm whale (*Physeter macrocephalus*)

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#### Other Special Status Species

Database searches of the project site and surrounding USGS quadrangles indicate that suitable habitat conditions for other special status species (see Attachments E, F, G, and H) exist within the region. These include California Species of Special Concern (SSC), fully-protected species (FP), and various rare plant species with a 1A, 1B, or 2 CNPS ranking. However, habitat assessments and focused botanical surveys completed for the project document the probable absence of these species within the project BSA. Therefore, project activities are not expected to impact these species, and they are not discussed further in this document, but rather, identified and addressed in Table 1.

While a few of these protected species, such as the northern red-legged frog (*Rana aurora*), western pond turtle (*Emys marmorata*), American peregrine falcon (*Falco peregrinus anatum*), and white-tailed kite (*Elanus leucurus*), are known to have occurred adjacent to the project site, the ESL itself lacks suitable breeding, foraging, and dispersal habitat for these species. Therefore, impacts to these species due to project activities are not anticipated.

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Table 1. Listed, Proposed Species, Natural Communities, and Critical Habitat Potentially Occurring or Known to Occur in the Project Area

	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
AMPHIBIANS					
Ascaphus truei	Coastal tailed frog	-/SSC	Cool, perennial, swiftly flowing streams in redwood, Douglas-fir, and yellow pine forests.	Absent	No suitable habitat in ESL.
Rana aurora	Northern red- legged frog	-/SSC	Densely vegetated shorelines, quiet pools in streams and marshes, occasionally ponds, in North Coast below 4000 ft.	Absent	No suitable habitat in ESL.
Rana boylii	Foothill yellow- legged frog	-/SSC	In/near rocky streams with cool and ephemeral to permanent water, in a variety of habitats; may be found in isolated pools.	Absent	No suitable habitat in ESL.

<sup>&</sup>lt;sup>1</sup> **Federal Status** (Federal Endangered Species Act): E = Endangered; T = Threatened; P = Proposed for listing as threatened or endangered, or for delisting; C = Candidate; D = Delisted; - = No Listing.

**State Status** (California Endangered Species Act): E = Endangered; T = Threatened; C = Candidate; D = delisted; - = No Listing. State Status (other rankings): SSC = Species of Special Concern; FP = Fully Protected; S1 = Critically Imperiled; S2 = Imperiled; S3 = Vulnerable; SH = Possibly Extirpated (Historically); Sx.1 = Very Threatened; Sx.2 = Threatened; Sx.3 = No Current Threats Known.

**California Native Plant Society** (CNPS): 1A = Presumed extinct in California; 1B = Plants rare, threatened, or endangered in California and elsewhere; 2 = Rare, threatened, or endangered in California, but more common elsewhere; x.1 = seriously endangered in California; x.2 = fairly endangered in California; x.3 = Not very endangered in California.

<sup>&</sup>lt;sup>2</sup> Includes determinations of effect for all federally listed species and designated critical habitat (CH).

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Scientific Name	Common Name	Status <sup>1</sup> Federal/State/	Habitat	Habitat Present/	Rationale <sup>2</sup>
	Name	CNPS		Absent	
Rana draytonii	California red- legged frog	T/SSC	Found near ponded water in a variety of habitats; breeds in ephemeral to permanent water such as lakes, ponds, slow streams, swamps, and reservoirs.	Absent	No effect to species or CH. Not known north of Navarro River. No suitable habitat in ESL.
Rhyacotriton variegatus	Southern torrent salamander	-/SSC	Cold, well-shaded, permanent streams and seepages, or within splash zone or on moss-covered rock within trickling water.	Absent	No suitable habitat in ESL.
Taricha rivularis	Red-bellied newt	-/SSC	Coastal drainages from Humboldt County south to Sonoma County. Found in coastal woodlands and redwood forests; breed in streams with rocky substrate and fast flows.	Absent	No suitable habitat in ESL.
BIRDS					
Accipiter gentilis	Northern goshawk	-/SSC	Nests and forages in mature coniferous forests with dense canopy and open understory.	Absent	No suitable habitat in ESL.
Brachyramphus marmoratus	Marbled murrelet	T/E	Mature, coastal coniferous forests for nesting up to 35 miles inland; nearby coastal water for foraging; winters on subtidal and pelagic waters, often well offshore.	Absent	No effect to species or CH. No suitable habitat in ESL.
Charadrius alexandrinus nivosus	Western snowy plover	T/SSC	Coastal beaches above the normal high tide limit with wood or other debris for cover. Inland shores of salt ponds and alkali or brackish inland lakes.	Absent	No effect to species or CH. No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Coccyzus americanus occidentalis	Western yellow-billed cuckoo	FT/SE	Wide, dense riparian forests with a thick understory of willows for nesting; prefers sites with a dominant cottonwood overstory for foraging; may avoid valley oakriparian habitats where scrub jays are abundant.	Absent	No effect to species or CH. No suitable habitat in ESL.
Elanus leucurus	White-tailed kite	/FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Prefers open grasslands, meadows, or marshes for foraging; close to isolated trees for nesting and perching.	Absent	No suitable habitat in ESL.
Falco peregrinus anatum	American peregrine falcon	D/D, FP	Nests in a variety of locations from coastal cliffs to tall buildings or bridges within urban areas, usually adjacent to water features supporting a large prey population.	Absent	No suitable habitat in ESL.
Fratercula cirrhata	Tufted puffin	-/SSC	Nests in deep burrows within islands and cliffs along the coast. Forages in pelagic waters of the north Pacific.	Absent	No suitable habitat in ESL.
Haliaeetus leucocephalus	Bald eagle	DL/SE	Ocean shore, lake margins, and rivers for both nesting and wintering. Typically nest within 1 mile of water, in large, old-growth, or dominant live trees with open branches. Roost communally in winter.	Absent	No Effect. No nesting habitat in ESL.

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Scientific Name	Common Name	Status <sup>1</sup> Federal/State/ CNPS	Habitat	Habitat Present/ Absent	Rationale <sup>2</sup>
Oceanodroma homochroa	Ashy storm- petrel	-/SSC	Nests in natural rock crevices found on offshore islands. Forages in nearby coastal waters of the continental slope.	Absent	No suitable habitat in ESL.
Phoebastris (=Diomedea) albatrus	Short-tailed albatross	E/-	Nests on two Japanese islands: Torishima and Minami-kojima. When at sea feeding, they range across the North Pacific, to as far west as California.	Absent	No effect. No suitable habitat in ESL.
Progne subis	Purple martin	-/SSC	Nests in abandoned woodpecker holes in trees in a variety of wooded and riparian habitats, and vertical drainage holes under elevated freeways and highway bridges.	Absent	No suitable habitat in ESL.
Strix occidentalis caurina	Northern spotted owl	Т/Т	Dense old-growth or mature forests dominated by conifers with topped trees or oaks available for nesting crevices.	Absent	No effect to species or CH. No suitable habitat in ESL.
FISH					
Acipenser medirostris	Southern DPS green sturgeon	T/SSC	Occupy nearshore oceanic waters, bays, and estuaries, returning to large freshwater rivers to spawn.	Absent	No effect to species or CH. No suitable habitat in ESL.
Entosphenus tridentatus	Pacific lamprey	-/SSC	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No suitable habitat in ESL.
Eucyclogobius newberryi	Tidewater goby	E/SSC	On bottom or existing on submerged plants in shallow weedy areas of coastal lagoons and estuaries.	Absent	No effect to species or CH. No suitable habitat in ESL.
Oncorhynchus kisutch	Central California Coast (CCC) ESU coho salmon	E/E	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No effect to species or CH. No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Common Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Oncorhynchus mykiss	Northern California (NC) DPS steelhead	T/-	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No effect to species or CH. No suitable habitat in ESL.
Oncorhynchus tshawytscha	California Coastal (CC) ESU Chinook salmon	Т/-	Ocean and coastal streams.	Absent	No effect to species or CH. No suitable habitat in ESL.
INVERTEBRATE	S				
Bombus occidentalis	Western bumble bee	-/CE	Generalist foragers. Require pollen from floral resources throughout the duration of the colony period (spring to fall), and suitable overwintering sites for the queens. Nest in underground cavities and in open west-southwest slopes bordered by trees.	Absent	No effect. No suitable habitat in ESL.
Plebejus idas lotis (=Lycaeides argyrognomon) lotis	Lotis blue butterfly	E/-	Coastal sphagnum bogs, wet prairies with larval host plants ( <i>Hosackia gracilis</i> ) and adjacent shelter trees.	Absent	No suitable habitat in ESL.
Speyeria zerene behrensii	Behren's silverspot butterfly	E/-	Early successional coastal prairie and dune habitats with larval host plants ( <i>Viola adunca</i> ) and various nectar plants.	Absent	No suitable habitat in ESL.
MAMMALS					
Aplodontia rufa nigra	Point Arena mountain beaver	E/SSC	North-facing, wooded slopes of ridges or gullies where there is abundant moisture, thick undergrowth, and soft soil for burrowing, southern Mendocino County. Point Arena north to a few miles south of Elk.	Absent	No suitable habitat in ESL.

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Scientific Name	Common Name	Status <sup>1</sup> Federal/State/	Habitat	Habitat Present/ Absent	Rationale <sup>2</sup>
Arborimus pomo	Sonoma tree vole	-/SSC	Coastal forests Humboldt to Sonoma counties, old-growth forests of Douglas-fir, redwood, or montane hardwood-conifer species.	Absent	No suitable habitat in ESL.
Arctocephalus townsendi	Guadalupe fur seal	Т/-	Islands off of Mexico, Baja, and Southern California.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera borealis	Sei whale	E/-	Prefer temperate waters in the mid-latitudes, and can be found in the Atlantic, Indian, and Pacific Oceans.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera musculus	Blue whale	E/-	Circumboreal, subpolar to sub-tropical; generally, more offshore than other whales.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera physalus	Fin whale	E/-	Deep, offshore waters of all major oceans, primarily temperate to polar latitudes.	Absent	No effect. No suitable habitat in ESL.
Corynorhinus townsendii	Townsend's big-eared bat	-/SSC	Roosts in caves, tunnels, mines, and dark attics of abandoned buildings.	Absent.	No suitable habitat in ESL.
Eubalaena japonica	North Pacific right whale	E/-	Forages in mid-depth, offshore waters of the north Pacific Ocean, primarily temperate to polar latitudes.	Absent	No effect. No suitable habitat in ESL.
Megaptera novaeangliae	Humpback whale (Western North Pacific)	E/-	California/Oregon/ Washington stock winter in coastal Central America-Mexico and migrate to California and southern British Columbia in summer/fall.	Absent	No effect. No suitable habitat in ESL.
Orcinus orca	Southern Resident killer whale	E/-	Most abundant in colder waters, including Antarctica, the North Atlantic and Pacific Oceans.	Absent	No effect to species or CH. No suitable habitat in ESL.
Physeter macrocephalus	sperm whale	E/-	Circumboreal; typically found below 1968 feet deep.	Absent	No effect. No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Pekania pennanti	Fisher, West Coast DPS	PT/SCT	Intermediate to large-tree stages of coniferous forests and deciduous-riparian areas with high percent canopy closure. They utilize cavities, snags, logs and rocky areas for cover and denning.	Absent	No effect to species. No suitable habitat in ESL.
REPTILES					
Chelonia mydas	East Pacific green sea turtle	Т/-	Found in tropical and subtropical waters, shallows, bays and inlets; does not nest in mainland U.S. Pacific Coast.	Absent	No effect. No suitable habitat in ESL.
Dermochelys coriacea	Leatherback sea turtle	E/-	Mainly pelagic, but also forages in coastal waters; does not nest in mainland U.S. Pacific Coast.	Absent	No effect to species or CH. No suitable habitat in ESL.
Emys marmorata	western pond turtle	-/SSC	Found in a variety of aquatic habitats, preferring habitats with large areas for cover and basking sites.  Overwinters terrestrially in burrows of leaf litter or soil.	Absent	No suitable habitat in ESL.
Lepidochelys olivacea	Olive ridley sea turtle	E/-	Tropical regions of the South Atlantic, Pacific and Indian Oceans; not known to nest in U.S. western Pacific Ocean.	Absent	No effect. No suitable habitat in ESL.
PLANTS	ı				N
Abronia umbellate var. brevifolia	pink sand- verbena	-/-/1B.1	Coastal dune and strand.	Absent	No suitable habitat in ESL.
Agrostis blasdalei	Blasdale's bent grass	-/-/1B.2	Coastal bluff scrub, dunes and prairie.	Absent	No suitable habitat in ESL.
Arctostaphylos nummularia ssp. mendocinoensis	pygmy manzanita	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Astragalus agnicidus	Humboldt County milk vetch	-/-/1B.1	Upland and coniferous forest openings, disturbed areas and roadsides.	Absent	No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Common Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Blennosperma nanum var. robustum	Point Reyes blennosperma	-/-/1B.2	Coastal prairie and scrub.	Absent	No suitable habitat in ESL.
Calamagrostis crassiglumis	Thurber's reed grass	-/-/2B.1	Marshy swales, mesic coastal prairie and scrub.	Absent	No suitable habitat in ESL.
Calystegia purpurata ssp. saxicola	coastal bluff morning-glory	-/-/1B.2	Coastal dunes and scrub, North Coast coniferous forest.	Absent	No suitable habitat in ESL.
Campanula californica	swamp harebell	-/-/1B.2	Bogs and fens, mesic coniferous forest, meadows and seeps, freshwater marshes and swamps.	Absent	No suitable habitat in ESL.
Carex californica	California sedge	-/-/2A	Coastal bogs and fens; presumed extinct in California.	Absent	No suitable habitat in ESL.
Carex livida	lagoon sedge	-/-/2B.2	Coastal marshes, swamps, mostly tidal.	Absent	No suitable habitat in ESL.
Carex livida	livid sedge	-/-/2A	Sphagnum bogs.	Absent	No suitable habitat in ESL.
Carex lyngbyei	Lyngbye's sedge	-/-/2B.2	Brackish or freshwater coastal marshes, swamps, sloughs.	Absent	No suitable habitat in ESL.
Carex saliniformis	deceiving sedge	-/-/1B.2	Coastal marshes, wet meadows, sparsely vegetated area.	Absent	No suitable habitat in ESL.
Carex viridula ssp. viridula	green yellow sedge	-/-/2B.3	Coastal marshes, swamps, bogs, fens.	Absent	No suitable habitat in ESL.
Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	-/-/2B.2	Coastal salt marshes, sloughs.	Absent	No suitable habitat in ESL.
Castilleja litoralis	Oregon coast paintbrush	-/-/2B.2	Sandy soils in coastal bluff scrub, dunes and scrub.	Absent	No suitable habitat in ESL.
Castilleja mendocinensis	Mendocino Coast paintbrush	-/-/1B.2	Coastal bluff scrub, dunes, prairie and scrub, closed-cone coniferous forest.	Absent	No suitable habitat in ESL.
Chorizanthe howellii	Howell's spineflower	E/T/1B.2	Coastal dunes and prairie, roadsides, sandy soil.	Absent	No effect. No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Common Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Clarkia amoena ssp. whitneyi	Whitney's farewell-to- spring	-/-/1B.1	Coastal bluff scrub and coastal scrub.	Absent	No suitable habitat in ESL.
Colllinsia corymbosa	round-headed Chinese- houses	-/-/1B.2	Coastal dunes and prairie.	Absent	No suitable habitat in ESL.
Cornus canadensis	bunchberry	-/-/2B.2	Shaded forests, bogs, fens.	Absent	No suitable habitat in ESL.
Cuscuta pacifica var. papillata	Mendocino dodder	-/-/1B.2	Dry coastal dunes, on Lupinus, Gnaphalium, Silene.	Absent	No suitable habitat in ESL.
Erigeron supplex	supple daisy	-/-/1B.2	Chaparral.	Absent	No suitable habitat in ESL.
Erysimum concinnum	bluff wallflower	-/-/1B.2	Coastal dunes, coastal bluff scrub, and coastal prairie.	Absent	No suitable habitat in ESL.
Erysimum menziesii (all subspecies except E. concinnum)	Menzies' wallflower	E/E/1B.1	Coastal dunes.	Absent	No effect. No suitable habitat in ESL.
Fritillaria roderickii	Roderick's fritillary	-/E/1B.1	Coastal bluff scrub, coastal prairie, valley and foothill grassland.	Absent	No effect. No suitable habitat in ESL.
Gilia capitata ssp. pacifica	Pacific gilia	-/-/1B.2	Coastal bluff scrub, chaparral (openings), coastal prairie, valley and foothill grassland.	Absent	No suitable habitat in ESL.
Gilia millefoliata	dark-eyed gilia	-/-/1B.2	Coastal dunes.	Absent	No suitable habitat in ESL.
Hemizonia congesta ssp. congesta	congested- headed hayfield tarplant	-/-/1B.2	Valley and foothill grasslands, sometimes roadsides.	Absent	No suitable habitat in ESL.
Hesperevax sparsiflora var. brevifolia	short-leaved evax	-/-/1B.2	Coastal bluff scrub (sandy), coastal dunes.	Absent	No suitable habitat in ESL.
Hesperocyparis pygmaea	pygmy cypress	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Horkelia marinensis	Point Reyes horkelia	-/-/1B.2	Coastal dunes, prairies, scrub.	Absent	No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Juncus supiniformis	hair-leaved rush	-/-/2B.2	Bogs, fens, freshwater marshes.	Absent	No suitable habitat in ESL.
Kopsiopsis hookeri	small groundcone	-/-/2B.3	Dry forest and chaparral habitats.	Absent	No suitable habitat in ESL.
Lasthenia californica ssp. bakeri	Baker's goldfields	-/-/1B.2	Closed-cone coniferous forest (openings), Coastal scrub, meadows and seeps, marshes and swamp.	Absent	No suitable habitat in ESL.
Lasthenia californica ssp. macrantha	perennial goldfields	-/-/1B.2	Coastal bluff scrub, coastal dunes, Coastal scrub.	Absent	No suitable habitat in ESL.
Lathyrus palustris	marsh pea	-/-/2B.2	Variety of wet coastal habitats.	Absent	No suitable habitat in ESL.
Lilium maritimum	coast lily	-/-/1B.1	Coastal forests, prairie, scrub, freshwater marshes and swamps, sometimes roadsides.	Absent	No suitable habitat in ESL.
Microseris borealis	northern microseris	-/-/2B.1	Bogs, seeps, wet meadows, mesic forests.	Absent	No suitable habitat in ESL.
Oenothera wolfii	Wolf's evening- primrose	-/-/1B.1	Variety of coastal habitats that are sandy and mesic.	Absent	No suitable habitat in ESL.
Packera bolanderi var. bolanderi	seacoast ragwort	-/-/2B.2	Coastal rocky/gravelly slopes, cliffs, in Coastal scrub and coniferous forest habitats.	Absent	No suitable habitat in ESL.
Phacelia insularis var. continentis	North Coast phacelia	-/-/1B.2	Sandy, coastal bluff scrub, prairie and dunes.	Absent	No suitable habitat in ESL.
Pinus contorta ssp. bolanderi	Bolander's beach pine	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Piperia candida	white-flowered rein orchid	-/-/1B.2	Coniferous forests in Northwest CA and north.	Absent	No suitable habitat in ESL.
Puccinellia pumila	dwarf alkali grass	-/-/2B.2	Coastal salt marshes and swamps.	Absent	No suitable habitat in ESL.
Ramalina thrausta	angel's hair lichen	-/-/2B.1	Coniferous forests in Northwest CA and north.	Absent	No suitable habitat in ESL.

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	Common	Status <sup>1</sup>		Habitat	
Scientific Name	Name	Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
Rhynchospora alba	white beaked- rush	-/-/2B.2	Bogs, swamps, fens, forest wetlands.	Absent	No suitable habitat in ESL.
Sanguisorba officinalis	great burnet	-/-/2B.2	Variety of wetland and forested habitats, often with serpentinite soil.	Absent	No suitable habitat in ESL.
Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	-/-/1B.2	Coastal buff scrub and prairie, roadsides.	Absent	No suitable habitat in ESL.
Sidalcea malviflora ssp. purpurea	purple- stemmed checkerbloom	-/-/1B.2	Coastal prairie, forest openings.	Absent	No suitable habitat in ESL.
Trifolium trichocalyx	Monterey clover	E/E/1B.1	Closed-cone coniferous forest (sandy, openings, burned areas).	Absent	No effect. No suitable habitat in ESL and project not within range of species.
Triquetrella californica	coastal triquetrella	-/-/1B.2	Coastal scrub and coastal bluff scrub.	Absent	No suitable habitat in ESL.
Viola palustris	alpine marsh violet	-/-/2B.2	Coastal bogs and fens, and mesic coastal scrub.	Absent	No suitable habitat in ESL.
SENSITIVE HABI	TATS				
Coastal Brackish	Marsh	-/S2.1	In shallow, standing or slow-moving waters in coastal bays, estuaries and lagoons, where fresh water meets salt water in a tidal area.	Absent	No suitable habitat in ESL.
Coastal and Valley Freshwater Marsh		-/S2.1	In shallow, standing or slow-moving fresh water at the edge of ponds and streams, typically permanently flooded; dominated by cattails and bulrushes.	Absent	No suitable habitat in ESL.
Fen		-/S2.1	Groundwater-fed wetland with permanently waterlogged soils ranging in pH levels.	Absent	No suitable habitat in ESL.
Grand Fir Forest		-/S2	Forests along the coast dominated by grand fir (Abies grandis).	Absent	No suitable habitat in ESL.

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		Scientific Name Common Name	Status <sup>1</sup>		Habitat	
	Scientific Name		Federal/State/ CNPS	Habitat	Present/ Absent	Rationale <sup>2</sup>
	Mendocino Pygmy Cypress Forest  Northern Coastal Salt Marsh		-/S2	Forests along the coast dominated by pygmy cypress.	Absent	No suitable habitat in ESL.
			-/S3.2	Restricted to the intertidal zone of protected and shallow bays, estuaries and lagoons.	Absent	No suitable habitat in ESL.
Sphagnum Bog			-/S2.1	Cold, highly acidic, permanently waterlogged soils.	Absent	No suitable habitat in ESL.

# Potential Project Impacts and Environmental Commitments

#### Wildlife Species and Migratory Corridors

Wildlife corridors are areas of habitat that allow movement of wildlife from one habitat patch to another for seasonal or daily migration. Stream courses, and their associated riparian areas, are often used as migration corridors by aquatic and terrestrial species. If corridors are degraded, habitat fragmentation can result.

The project ESL is not expected to provide migratory corridor habitat for wildlife. SR 1 is a barrier to migration, contributing to habitat fragmentation due to linear segments of unvegetated land and increased potential for wildlife/vehicle collisions. The right of way fence and rural development to the east of the ESL also serve as barriers to wildlife migration.

# Potential to impact rare plants in vegetation adjacent to construction, including designated staging areas

Several species of sensitive plants may potentially occur within the greater project area adjacent to the project ESL (i.e., within the 6-quad search area), including the federally endangered species listed in Table 1 above. All sensitive plant species with the potential to occur are shown in the CNDDB and CNPS queries (Attachments G and H). This project does not include ground-disturbing activities beyond modified surfaces. Additionally, none of the species with potential to occur in the area were detected during protocol-level botanical surveys and thus are inferred to be absent in and adjacent to the project area.

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Impacts to these species are not anticipated, therefore no avoidance or minimization measures are proposed.

#### Potential to impact jurisdictional wetlands, waters of the U.S., or waters of the State

No watercourses or wetlands are present within the proposed project footprint. A non-tidal, forested, seasonally flooded wetland borders the west side of SR 1 from PM 60.85 to PM 61.12. As no project activities are planned for southbound SR 1, impacts to the wetland are not anticipated. With implementation of the standard specification BMPs mentioned previously, construction along the road surface, as well as use of staging areas, would not impact the wetland bordering the opposite side of the highway. All construction at these locations would occur from the existing roadway. There would be no impacts to wetlands or waters because of the proposed activities; therefore, mitigation measures are not required.

#### Sensitive Habitats and Natural Communities

There are no sensitive habitats or natural communities, including wetlands, within the ESL. Although there is a forested wetland adjacent to the west side of SR 1 as mentioned in the previous section, with implementation of standard BMPs, project impacts to resources are not anticipated. The remainder of the vegetation observed consists of plant species common in a disturbed setting.

#### Potential to impact nesting birds

Nesting birds are protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code Sections 3503, 3503.5, and 3513. Nesting birds may be present during the nesting season (February 1- September 15) on the ground and in trees, shrubs, and structures. Regulatory references to "nests" imply that the nests are active. An active nest is defined as containing eggs or having one or more adult birds in close attendance. A nest that does not have eggs or adults present, and a nest outside the nesting season, is not protected. Nests containing abandoned eggs (often encountered outside of nesting season) are also not protected. An exception to this definition is raptors and colonial nesting birds that build large nests used repetitively from year to year. During the nesting season, birds can be impacted by tree and vegetation removal. All vegetation removal would be done outside the nesting season, therefore the work would not impact migratory birds. If vegetation requires clearing within the nesting season, surveys would be conducted (no earlier than five days prior to vegetation removal) by a qualified biologist to identify and locate nesting birds.

### Effects Findings

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After reviewing the Environmental Study Request and additional project information, it has been determined the proposed project would have no effect on any federally or state listed endangered, threatened, or candidate species or species of special concern. Most of the proposed work would take place on the existing pavement and modified surfaces; additionally, the clearing and grubbing required to build the retaining wall would be immediately next to the highway which consists of landscaped ornamental plant species that are very unlikely to support any special-status species or resources. No parts of the project are within critical habitat of any federally or state-listed threatened or endangered species or species of special concern.

No jurisdictional wetlands, waters of the U.S., or waters of the State were identified within the project ESL (existing roadway and shoulders). No permits/certifications from the USFWS, CDFW, United States Army Corps of Engineers (USACE), and the Regional Water Quality Control Board would be required. However, because the location of proposed ground-disturbing activities, including construction of a retaining wall, is within the Coastal Zone, the project would require a Coastal Development Permit (CDP).

If the scope of this project changes or extends beyond what is described above, reevaluation would be required. If you have any questions about this transmittal, please contact Tracy Walker at (707) 445-6432 or at tracy.walker@dot.ca.gov

#### References

- Baldwin, Bruce G. et al. (eds). 2012. The Jepson Manual: Vascular Plants of California, 2nd Edition. University of California Press, Berkeley.
- California Department of Fish and Wildlife. 2020. "California Natural Diversity Database (CNDDB)." 2020. Rarefind Viewer. Accessed: January 14, 2020. Sacramento, CA
- California Native Plant Society (CNPS). 2020. "Inventory of Rare and Endangered Plants of California." Database. 2019. (online edition, v7-12c). Accessed: January 14, 2020. California Native Plant Society. Sacramento, CA.
- National Marine Fisheries Service (NMFS). 2020. Intersection of USGS 7.5" Topographic Quadrangles with NOAA Fisheries ESA Listed Species, Critical Habitat, Essential Fish Habitat, and MMPA Species Data within California. Google Earth application. Retrieved January 14, 2020.
- U.S. Fish and Wildlife Service. 2020. USFWS IPaC (Information for Planning and Conservation) Accessed: January 14, 2020. URL: <a href="https://ecos.fws.gov/ipac/">https://ecos.fws.gov/ipac/</a>

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	U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
	Accessed February 4, 2019.
	2006. Arcata Fish and Wildlife Office. Draft Guidelines for Habitat Assessments and
	Surveys for Behren's Silverspot Butterfly (Speyeria zerene behrensii).

# **Attachments**

Attachment A: Project Vicinity Map

Attachment B: Project Location Map

Attachment C: Project ESL Layouts

Attachment D: Project Area Photos

Attachment E: USFWS IPaC Species List

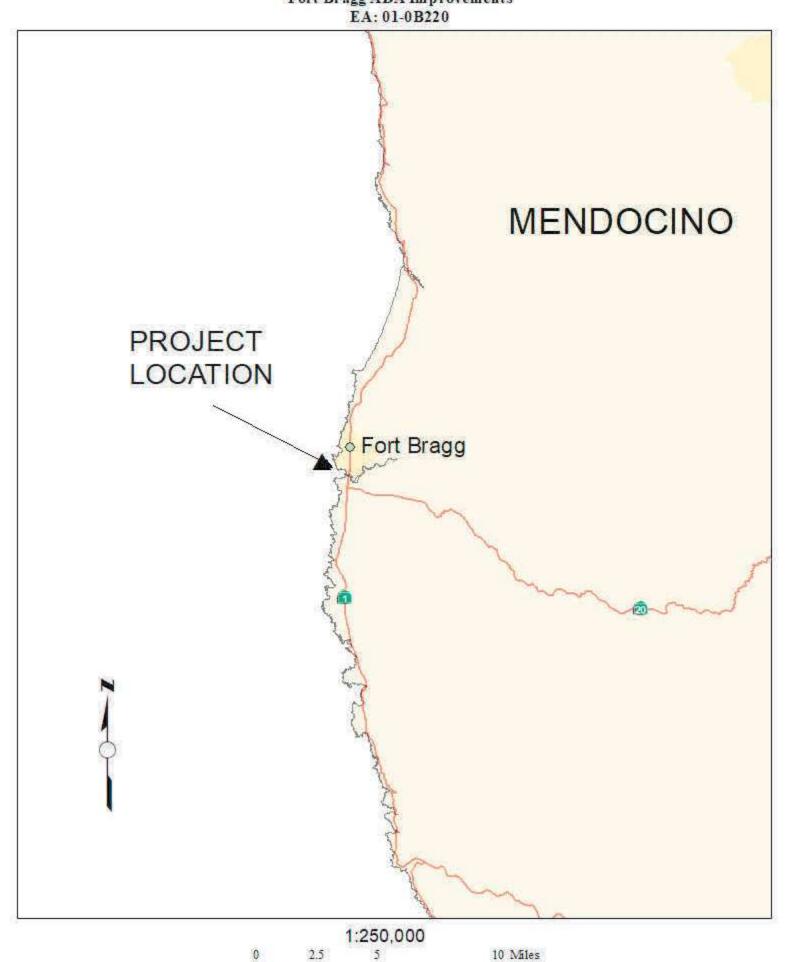
Attachment F: NMFS Species List

Attachment G: CNDDB Rarefind Species List

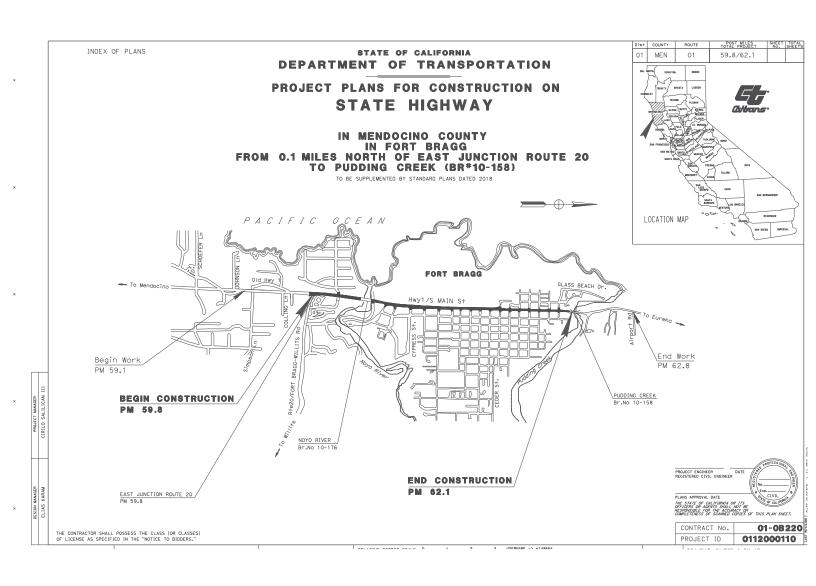
Attachment H: CNPS Rare Plant Species List

# ATTACHMENT A. Project Vicinity Map

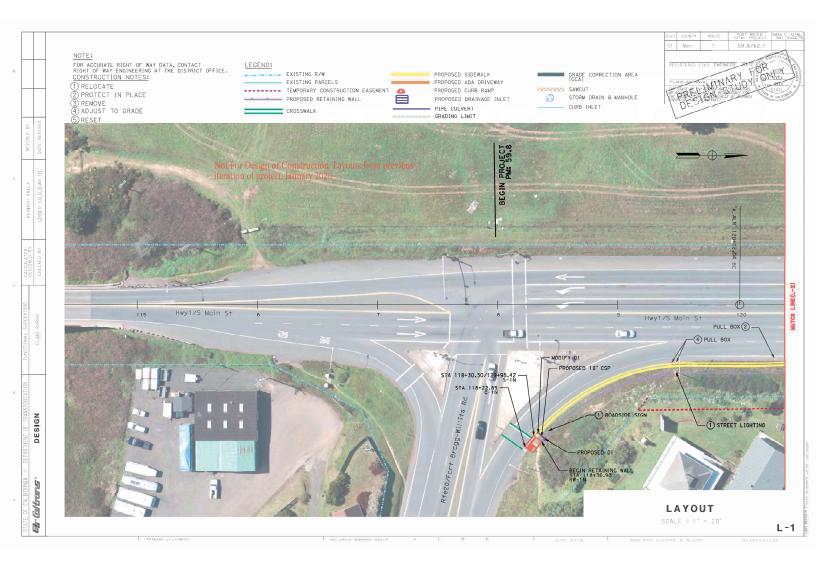
01-MEN-1 58.9-62.1 Fort Bragg ADA Improvements



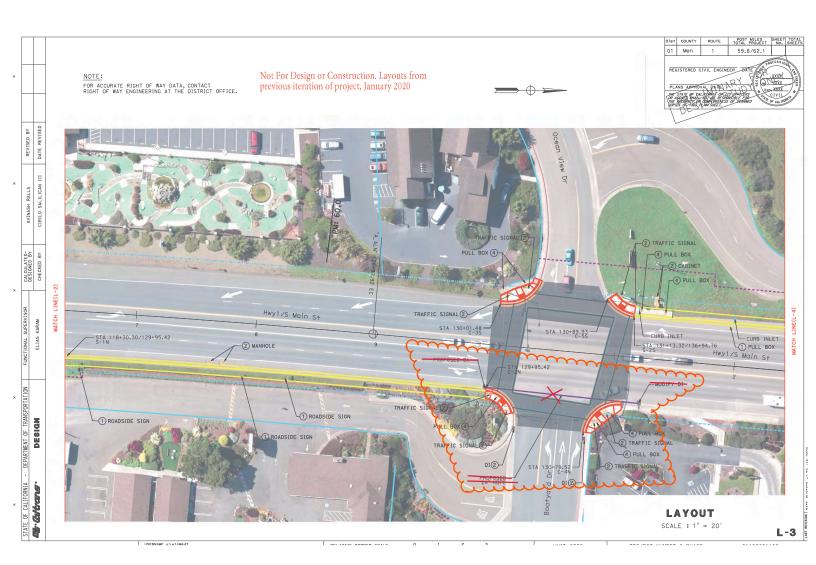
# ATTACHMENT B. Project Location Map



# ATTACHMENT C. Project ESL Layouts















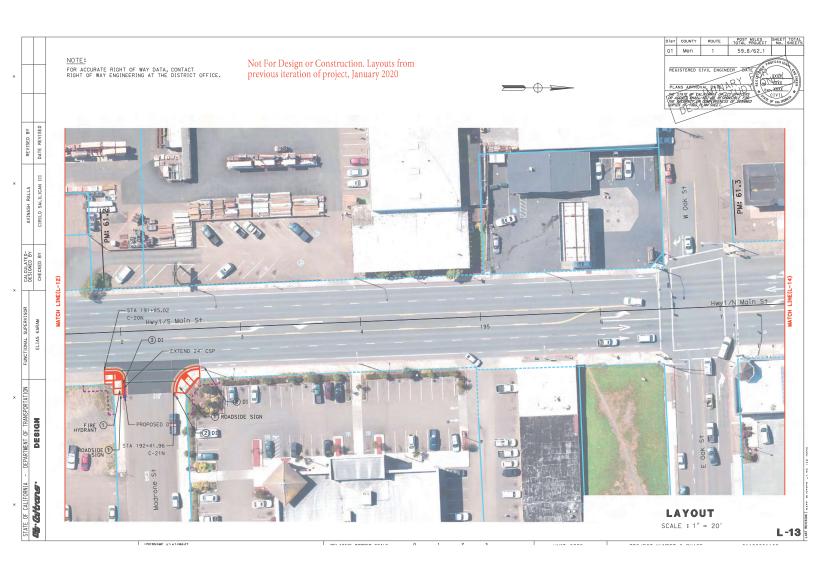




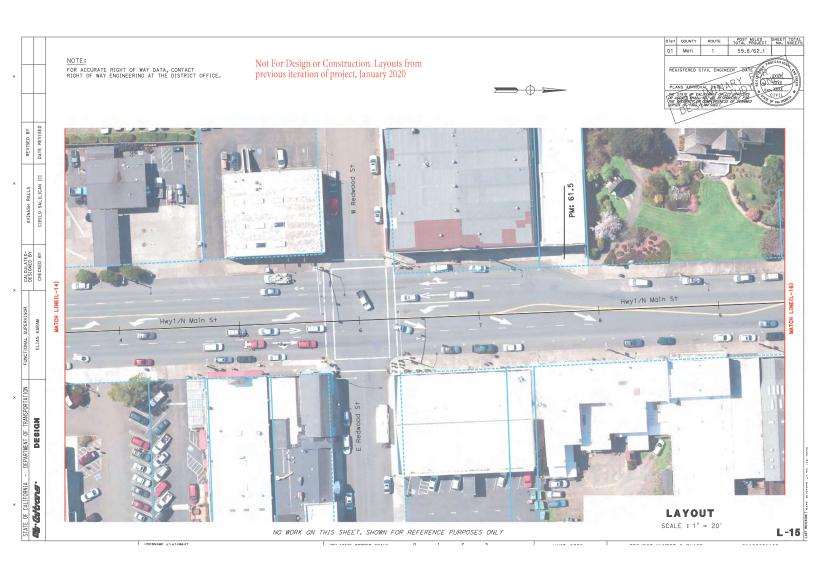


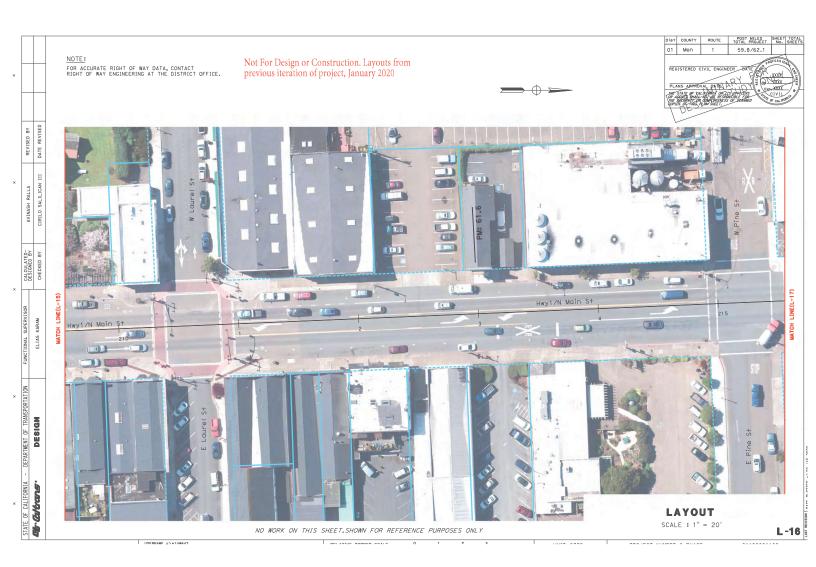








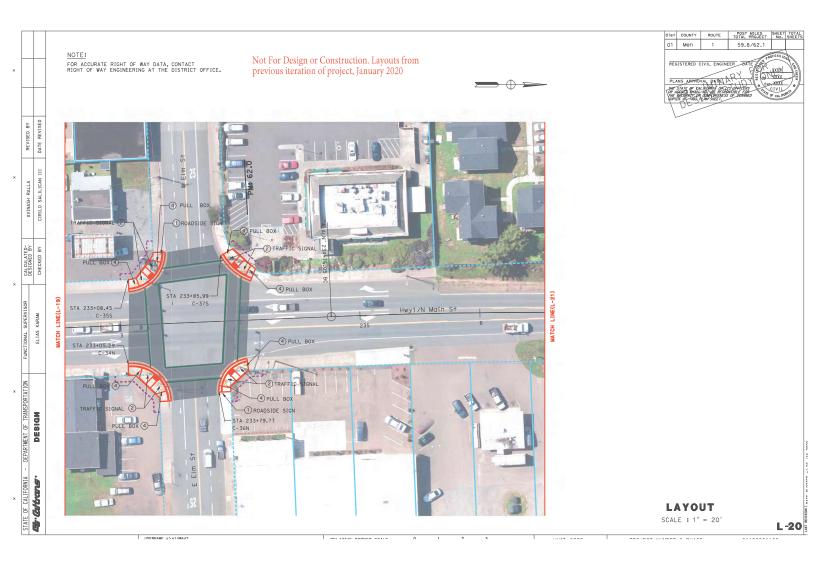














# ATTACHMENT D. Project Area Photos



**Photo 1.** View of northbound SR 1 and SR 20 at location of proposed retaining wall east of SR 1 looking northeast.



Photo 2. View of Biological Study Area southwest of intersection of SR 1 and SR 20, looking north.

# ATTACHMENT E. USFWS IPaC Species List



# United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Arcata Fish And Wildlife Office 1655 Heindon Road Arcata, CA 95521-4573 Phone: (707) 822-7201 Fax: (707) 822-8411



In Reply Refer To: January 14, 2020

Consultation Code: 08EACT00-2020-SLI-0081

Event Code: 08EACT00-2020-E-00235

Project Name: Fort Bragg ADA Improvement

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Arcata Fish And Wildlife Office 1655 Heindon Road Arcata, CA 95521-4573 (707) 822-7201

# **Project Summary**

Consultation Code: 08EACT00-2020-SLI-0081

Event Code: 08EACT00-2020-E-00235

Project Name: Fort Bragg ADA Improvement

Project Type: TRANSPORTATION

Project Description: The ADA improvements within Fort Bragg will include a retaining wall,

new sidewalks, extended curb ramps, and renovating driveways, along

with additional signage and road striping.

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/39.435197825671075N123.8061355041384W">https://www.google.com/maps/place/39.435197825671075N123.8061355041384W</a>



Counties: Mendocino, CA

# **Endangered Species Act Species**

There is a total of 19 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **Mammals**

NAME	STATUS
Fisher <i>Pekania pennanti</i>	Proposed
Population: West coast DPS	Threatened
No critical habitat has been designated for this species.	
Species profile: <a href="https://ecos.fws.gov/ecp/species/3651">https://ecos.fws.gov/ecp/species/3651</a>	
Point Arena Mountain Beaver <i>Aplodontia rufa nigra</i>	Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7727">https://ecos.fws.gov/ecp/species/7727</a>

Threatened

#### **Birds**

NAME **STATUS** Marbled Murrelet Brachyramphus marmoratus Threatened Population: U.S.A. (CA, OR, WA) There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4467 Threatened Northern Spotted Owl *Strix occidentalis caurina* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1123">https://ecos.fws.gov/ecp/species/1123</a> Short-tailed Albatross *Phoebastria* (=Diomedea) albatrus Endangered No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/433">https://ecos.fws.gov/ecp/species/433</a> Threatened Western Snowy Plover Charadrius nivosus nivosus Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8035">https://ecos.fws.gov/ecp/species/8035</a> Threatened Yellow-billed Cuckoo *Coccyzus americanus* Population: Western U.S. DPS There is **proposed** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911 **Reptiles** NAME **STATUS** Threatened Green Sea Turtle *Chelonia mydas* Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199 Leatherback Sea Turtle Dermochelys coriacea Endangered There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1493">https://ecos.fws.gov/ecp/species/1493</a> **Amphibians** 

NAME STATUS

#### California Red-legged Frog Rana draytonii

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/2891

#### **Fishes**

NAME

Tidewater Goby Eucyclogobius newberryi

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: <a href="https://ecos.fws.gov/ecp/species/57">https://ecos.fws.gov/ecp/species/57</a>

Endangered

**Insects** 

NAME STATUS

Behren's Silverspot Butterfly Speyeria zerene behrensii

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/900">https://ecos.fws.gov/ecp/species/900</a>

Lotis Blue Butterfly *Lycaeides argyrognomon lotis* 

There is **proposed** critical habitat for this species. The location of the critical habitat is not

available.

Species profile: https://ecos.fws.gov/ecp/species/5174

Endangered

Endangered

Endangered

Endangered

Endangered

Endangered

**Flowering Plants** 

NAME STATUS

Burke's Goldfields Lasthenia burkei

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4338">https://ecos.fws.gov/ecp/species/4338</a>

Contra Costa Goldfields *Lasthenia conjugens* 

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: <a href="https://ecos.fws.gov/ecp/species/7058">https://ecos.fws.gov/ecp/species/7058</a>

Howell's Spineflower Chorizanthe howellii Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7607">https://ecos.fws.gov/ecp/species/7607</a>

Menzies' Wallflower *Erysimum menziesii* 

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2935">https://ecos.fws.gov/ecp/species/2935</a>

Monterey Clover *Trifolium trichocalyx* 

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4282">https://ecos.fws.gov/ecp/species/4282</a>

Showy Indian Clover *Trifolium amoenum* 

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6459">https://ecos.fws.gov/ecp/species/6459</a>

Endangered

# **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# ATTACHMENT F. NMFS Species List

From: <u>NMFSWCRCA Specieslist - NOAA Service Account</u>

To: Walker, Tracy@DOT

**Subject:** Re: Official species list for Caltrans Ft Bragg ADA project

**Date:** Tuesday, January 14, 2020 11:36:44 AM

**CAUTION: External email.** Do not click links or open attachments unless you recognize the sender and know the content is safe.

Receipt of this message confirms that NMFS has received your email to <a href="mailto:nmfswcrca.specieslist@noaa.gov">nmfswcrca.specieslist@noaa.gov</a>. If you are a federal agency (or representative) and have followed the steps outlined on the California Species List Tools web page (<a href="http://www.westcoast.fisheries.noaa.gov/maps\_data/california\_species\_list\_tools.html">http://www.westcoast.fisheries.noaa.gov/maps\_data/california\_species\_list\_tools.html</a>), you have generated an official Endangered Species Act species list.

Messages sent to this email address are not responded to directly. For project specific questions, please contact your local NMFS office.

Northern California/Klamath (Arcata) 707-822-7201

North-Central Coast (Santa Rosa) 707-387-0737

Southern California (Long Beach) 562-980-4000

California Central Valley (Sacramento) 916-930-3600

Quad Name Fort Bragg
Quad Number 39123-D7

#### **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) - X

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) -

### **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat - X

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -

**Eulachon Critical Habitat -**

sDPS Green Sturgeon Critical Habitat - X

# **ESA Marine Invertebrates**

Range Black Abalone (E) -

Range White Abalone (E) -

# **ESA Marine Invertebrates Critical Habitat**

#### Black Abalone Critical Habitat -

#### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) 
Olive Ridley Sea Turtle (T/E) 
Leatherback Sea Turtle (E) 
North Pacific Loggerhead Sea Turtle (E) -

#### **ESA Whales**

Blue Whale (E) 
Fin Whale (E) 
Humpback Whale (E) 
Southern Resident Killer Whale (E) 
North Pacific Right Whale (E) 
Sei Whale (E) 
X

Sperm Whale (E) -

### **ESA Pinnipeds**

Guadalupe Fur Seal (T) - X
Steller Sea Lion Critical Habitat -

## **Essential Fish Habitat**

Coho EFH - X
Chinook Salmon EFH - X
Groundfish EFH - X
Coastal Pelagics EFH - X
Highly Migratory Species EFH - X

### MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans - X
MMPA Pinnipeds - X

# ATTACHMENT G. CNDDB / Rare Find Results Summary



# California Department of Fish and Wildlife California Natural Diversity Database



**Query Criteria:** 

Quad<span style='color:Red'> IS </span>(Fort Bragg (3912347)<span style='color:Red'> OR </span>Inglenook (3912357)<span style='color:Red'> OR </span>Dutchmans Knoll (3912356)<span style='color:Red'> OR </span>Noyo Hill (3912346)<span style='color:Red'> OR </span>Mathison Peak (3912336)<span style='color:Red'> OR </span>Mendocino (3912337))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
alpine marsh violet	PDVIO041G0	None	None	G5	S1S2	2B.2
Viola palustris						
angel's hair lichen	NLLEC3S340	None	None	G5?	S2S3	2B.1
Ramalina thrausta						
ashy storm-petrel	ABNDC04030	None	None	G2	S2	SSC
Oceanodroma homochroa						
Baker's goldfields  Lasthenia californica ssp. bakeri	PDAST5L0C4	None	None	G3T1	S1	1B.2
Blasdale's bent grass	PMPOA04060	None	None	G2	S2	1B.2
Agrostis blasdalei	PIVIPOA04000	None	None	G2	32	ID.Z
bluff wallflower	PDBRA160E3	None	None	G3	S2	1B.2
Erysimum concinnum						
Bolander's beach pine  Pinus contorta ssp. bolanderi	PGPIN04081	None	None	G5T2	S2	1B.2
bunchberry	PDCOR01040	None	None	G5	S2	2B.2
Cornus canadensis						
California sedge	PMCYP032D0	None	None	G5	S2	2B.2
Carex californica						
coast lily	PMLIL1A0C0	None	None	G2	S2	1B.1
Lilium maritimum						
Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coastal and Valley Freshwater Marsh						
coastal bluff morning-glory	PDCON040D2	None	None	G4T2T3	S2S3	1B.2
Calystegia purpurata ssp. saxicola						
Coastal Brackish Marsh  Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
coastal triquetrella	NBMUS7S010	None	None	G2	S2	1B.2
Triquetrella californica						
coho salmon - central California coast ESU  Oncorhynchus kisutch pop. 4	AFCHA02034	Endangered	Endangered	G4	S2?	
congested-headed hayfield tarplant	DD 4 CT4 D0 CE	None	None	CETO	S2	1B.2
Hemizonia congesta ssp. congesta	PDAST4R065	None	None	G5T2	52	ID.Z
dark-eyed gilia	PDPLM04130	None	None	G2	S2	1B.2
Gilia millefoliata						
deceiving sedge	PMCYP03BY0	None	None	G2	S2	1B.2
Carex saliniformis						
dwarf alkali grass	PMPOA531L0	None	None	G4?	SH	2B.2
Puccinellia pumila						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Fen	CTT51200CA	None	None	G2	S1.2	
Fen						
foothill yellow-legged frog	AAABH01050	None	Candidate	G3	S3	SSC
Rana boylii			Threatened			
globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
Coelus globosus						
Grand Fir Forest	CTT82120CA	None	None	G1	S1.1	
Grand Fir Forest						
great blue heron	ABNGA04010	None	None	G5	S4	
Ardea herodias						
great burnet	PDROS1L060	None	None	G5?	S2	2B.2
Sanguisorba officinalis						
green yellow sedge	PMCYP03EM5	None	None	G5T5	S2	2B.3
Carex viridula ssp. viridula						
hair-leaved rush	PMJUN012R0	None	None	G5	S1	2B.2
Juncus supiniformis						
hoary bat	AMACC05030	None	None	G5	S4	
Lasiurus cinereus						
Howell's spineflower	PDPGN040C0	Endangered	Threatened	G1	S1	1B.2
Chorizanthe howellii	DD 00 D 0 D 100			0.470	0.0	45.0
Humboldt Bay owl's-clover	PDSCR0D402	None	None	G4T2	S2	1B.2
Castilleja ambigua var. humboldtiensis	DD = 4 D = 5 0 0				0.0	45.4
Humboldt County milk-vetch	PDFAB0F080	None	Endangered	G2	S2	1B.1
Astragalus agnicidus	DMOV/D00747	Mana	Nissa	OFTE	04	00.0
lagoon sedge  Carex lenticularis var. limnophila	PMCYP037A7	None	None	G5T5	S1	2B.2
,	DD CA VONOCO	Nama	Nama	05	S4	4.2
leafy-stemmed mitrewort  Mitellastra caulescens	PDSAX0N020	None	None	G5	54	4.2
livid sedge	PMCYP037L0	None	None	G5	SH	2A
Carex livida	FINICTF037E0	None	None	GS	311	ZA
lotis blue butterfly	IILEPG5013	Endangered	None	G5TH	SH	
Plebejus idas lotis	IILLI 03013	Litualigered	None	03111	OH	
Lyngbye's sedge	PMCYP037Y0	None	None	G5	S3	2B.2
Carex lyngbyei	1 WO11 007 10	None	None	00	00	20.2
maple-leaved checkerbloom	PDMAL110E0	None	None	G3	S3	4.2
Sidalcea malachroides	1 DIVINCE TIOLO	TVOTIC	140110	00	00	٦.٤
marbled murrelet	ABNNN06010	Threatened	Endangered	G3G4	S1	
Brachyramphus marmoratus	7.5.11.1100010	53.01.04				
marsh pea	PDFAB250P0	None	None	G5	S2	2B.2
Lathyrus palustris						
Mendocino Coast paintbrush	PDSCR0D3N0	None	None	G2	S2	1B.2
Castilleja mendocinensis				-		
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# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Mendocino dodder	PDCUS011A2	None	None	G5T1	S1	1B.2
Cuscuta pacifica var. papillata						
Mendocino leptonetid spider	ILARAU6040	None	None	G1	S1	
Calileptoneta wapiti						
Mendocino Pygmy Cypress Forest	CTT83161CA	None	None	G2	S2.1	
Mendocino Pygmy Cypress Forest						
Menzies' wallflower	PDBRA160R0	Endangered	Endangered	G1	S1	1B.1
Erysimum menziesii						
Methuselah's beard lichen	NLLEC5P420	None	None	G4	S4	4.2
Usnea longissima						
Monterey clover	PDFAB402J0	Endangered	Endangered	G1	S1	1B.1
Trifolium trichocalyx						
North American porcupine	AMAFJ01010	None	None	G5	S3	
Erethizon dorsatum						
North Coast phacelia	PDHYD0C2B1	None	None	G2T2	S2	1B.2
Phacelia insularis var. continentis						
Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
Northern Coastal Salt Marsh						
northern goshawk	ABNKC12060	None	None	G5	S3	SSC
Accipiter gentilis						
northern microseris	PDAST6E030	None	None	G5	S1	2B.1
Microseris borealis						
northern red-legged frog	AAABH01021	None	None	G4	S3	SSC
Rana aurora						
bscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
Bombus caliginosus						
Dregon coast paintbrush	PDSCR0D012	None	None	G3	S3	2B.2
Castilleja litoralis						
Dregon goldthread	PDRAN0A020	None	None	G4?	S3?	4.2
Coptis laciniata						
osprey	ABNKC01010	None	None	G5	S4	WL
Pandion haliaetus						
Pacific gilia	PDPLM040B6	None	None	G5T3	S2	1B.2
Gilia capitata ssp. pacifica						
Pacific lamprey	AFBAA02100	None	None	G4	S4	SSC
Entosphenus tridentatus						
Pacific tailed frog	AAABA01010	None	None	G4	S3S4	SSC
Ascaphus truei						
perennial goldfields	PDAST5L0C5	None	None	G3T2	S2	1B.2
Lasthenia californica ssp. macrantha						
oink sand-verbena	PDNYC010N4	None	None	G4G5T2	S2	1B.1
Abronia umbellata var. breviflora						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Point Reyes blennosperma	PDAST1A022	None	Rare	G4T2	S2	1B.2
Blennosperma nanum var. robustum						
Point Reyes horkelia	PDROS0W0B0	None	None	G2	S2	1B.2
Horkelia marinensis						
purple martin  Progne subis	ABPAU01010	None	None	G5	S3	SSC
	DDMAI 440EI	Nama	Nama	OFT4	04	4D 0
purple-stemmed checkerbloom  Sidalcea malviflora ssp. purpurea	PDMAL110FL	None	None	G5T1	S1	1B.2
pygmy cypress	PGCUP04032	None	None	G1	S1	1B.2
Hesperocyparis pygmaea						
pygmy manzanita	PDERI04280	None	None	G3?T1	S1	1B.2
Arctostaphylos nummularia ssp. mendocinoensis						
red-bellied newt	AAAAF02020	None	None	G4	S2	SSC
Taricha rivularis						
round-headed Chinese-houses  Collinsia corymbosa	PDSCR0H060	None	None	G1	S1	1B.2
running-pine	PPLYC01080	None	None	G5	S3	4.1
Lycopodium clavatum						
seacoast ragwort	PDAST8H0H1	None	None	G4T4	S2S3	2B.2
Packera bolanderi var. bolanderi						
short-leaved evax	PDASTE5011	None	None	G4T3	S2	1B.2
Hesperevax sparsiflora var. brevifolia						
Sonoma tree vole	AMAFF23030	None	None	G3	S3	SSC
Arborimus pomo						
southern torrent salamander	AAAAJ01020	None	None	G3G4	S2S3	SSC
Rhyacotriton variegatus						
Sphagnum Bog	CTT51110CA	None	None	G3	S1.2	
Sphagnum Bog						
steelhead - northern California DPS	AFCHA0209Q	Threatened	None	G5T2T3Q	S2S3	
Oncorhynchus mykiss irideus pop. 16						
supple daisy	PDAST3M3Z0	None	None	G2	S2	1B.2
Erigeron supplex	DD 0 4 1 4 0 0 0 0 0	Mana	Mana	00	00	4D 0
swamp harebell  Campanula californica	PDCAM02060	None	None	G3	S3	1B.2
Ten Mile shoulderband	IMGASC5070	None	None	G2	S2	
Noyo intersessa						
Thurber's reed grass	PMPOA17070	None	None	G3Q	S2	2B.1
Calamagrostis crassiglumis						
tidewater goby	AFCQN04010	Endangered	None	G3	S3	SSC
Eucyclogobius newberryi						
Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
Corynorhinus townsendii						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
tufted puffin	ABNNN12010	None	None	G5	S1S2	SSC
Fratercula cirrhata						
western bumble bee	IIHYM24250	None	Candidate	G2G3	S1	
Bombus occidentalis			Endangered			
western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Emys marmorata						
western snowy plover	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
Charadrius alexandrinus nivosus						
white beaked-rush	PMCYP0N010	None	None	G5	S2	2B.2
Rhynchospora alba						
white-flowered rein orchid	PMORC1X050	None	None	G3	S3	1B.2
Piperia candida						
Whitney's farewell-to-spring	PDONA05025	None	None	G5T1	S1	1B.1
Clarkia amoena ssp. whitneyi						
Wolf's evening-primrose	PDONA0C1K0	None	None	G2	S1	1B.1
Oenothera wolfii						

Record Count: 90

## ATTACHMENT H. CNPS Results Summary

1/14/2020 **CNPS Inventory Results** 



\*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

#### **Plant List**

70 matches found. Click on scientific name for details

#### Search Criteria

Found in Quads 3912357, 3912356, 3912347, 3912346 3912337 and 3912336;

Q Modify Search Criteria Export to Excel Modify Columns 2 Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Abronia umbellata var. breviflora	pink sand-verbena	Nyctaginaceae	perennial herb	Jun-Oct	1B.1	S2	G4G5T2
Agrostis blasdalei	Blasdale's bent grass	Poaceae	perennial rhizomatous herb	May-Jul	1B.2	S2	G2
Angelica lucida	sea-watch	Apiaceae	perennial herb	May-Sep	4.2	S3	G5
Arctostaphylos nummularia ssp. mendocinoensis	pygmy manzanita	Ericaceae	perennial evergreen shrub	Jan	1B.2	S1	G3?T1
Astragalus agnicidus	Humboldt County milk-vetch	Fabaceae	perennial herb	Apr-Sep	1B.1	S2	G2
Blennosperma nanum var. robustum	Point Reyes blennosperma	Asteraceae	annual herb	Feb-Apr	1B.2	S2	G4T2
Calamagrostis bolanderi	Bolander's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	4.2	S4	G4
Calamagrostis crassiglumis	Thurber's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	2B.1	S2	G3Q
Calystegia purpurata ssp. saxicola	coastal bluff morning-glory	Convolvulaceae	perennial herb	(Mar)Apr-Sep	1B.2	S2S3	G4T2T3
Campanula californica	swamp harebell	Campanulaceae	perennial rhizomatous herb	Jun-Oct	1B.2	S3	G3
Carex californica	California sedge	Cyperaceae	perennial rhizomatous herb	May-Aug	2B.3	S2	G5

1/	14/2020	entory Results						
	Carex lenticularis var. limnophila	lagoon sedge	Cyperaceae	perennial herb	Jun-Aug	2B.2	S1	G5T5
	Carex livida	livid sedge	Cyperaceae	perennial rhizomatous herb	Jun	2A	SH	G5
	<u>Carex lyngbyei</u>	Lyngbye's sedge	Cyperaceae	perennial rhizomatous herb	Apr-Aug	2B.2	S3	G5
	Carex saliniformis	deceiving sedge	Cyperaceae	perennial rhizomatous herb	May-Jun(Jul)	1B.2	S2	G2
	Carex viridula ssp. viridula	green yellow sedge	Cyperaceae	perennial herb	(Jun)Jul-Sep(Nov)	2B.3	S2	G5T5
	Castilleja ambigua var. ambigua	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	4.2	S3S4	G4T4
	Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	Apr-Aug	1B.2	S2	G4T2
	<u>Castilleja litoralis</u>	Oregon coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Jun-Jul	2B.2	S3	G3
	<u>Castilleja mendocinensis</u>	Mendocino Coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Apr-Aug	1B.2	S2	G2
	Ceanothus gloriosus var. exaltatus	glory brush	Rhamnaceae	perennial evergreen shrub	Mar-Jun(Aug)	4.3	S4	G4T4
	Ceanothus gloriosus var. gloriosus	Point Reyes ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	4.3	S4	G4T4
	Chorizanthe howellii	Howell's spineflower	Polygonaceae	annual herb	May-Jul	1B.2	S1	G1
	Chrysosplenium glechomifolium	Pacific golden saxifrage	Saxifragaceae	perennial herb	Feb-Jun(Jul)	4.3	S3	G5?
	Clarkia amoena ssp. whitneyi	Whitney's farewell-to-spring	Onagraceae	annual herb	Jun-Aug	1B.1	S1	G5T1
	Collinsia corymbosa	round-headed Chinese- houses	Plantaginaceae	annual herb	Apr-Jun	1B.2	S1	G1
	Coptis laciniata	Oregon goldthread	Ranunculaceae	perennial rhizomatous herb	(Feb)Mar- May(Sep-Nov)	4.2	S3?	G4?
	Cornus canadensis	bunchberry	Cornaceae	perennial rhizomatous herb	May-Jul	2B.2	S2	G5
	Cuscuta pacifica var. papillata	Mendocino dodder	Convolvulaceae	annual vine (parasitic)	(Jun)Jul-Oct	1B.2	S1	G5T1
	Erigeron supplex	supple daisy	Asteraceae	perennial herb	May-Jul	1B.2	S2	G2
	Erysimum concinnum	bluff wallflower	Brassicaceae	annual / perennial herb	Feb-Jul	1B.2	S2	G3
	Erysimum menziesii	Menzies' wallflower	Brassicaceae	perennial herb	Mar-Sep	1B.1	S1	G1
	Fritillaria roderickii	Roderick's fritillary	Liliaceae	perennial bulbiferous herb	Mar-May	1B.1	S1	G1Q
	Gilia capitata ssp. pacifica	Pacific gilia	Polemoniaceae	annual herb	Apr-Aug	1B.2	S2	G5T3
	Gilia millefoliata	dark-eyed gilia	Polemoniaceae	annual herb	Apr-Jul	1B.2	S2	G2

1/14/2020		CNPS Inv	rentory Results				
Hemizonia congesta ssp. congesta	congested-headed hayfield tarplant	Asteraceae	annual herb	Apr-Nov	1B.2	S2	G5T2
Hesperevax sparsiflora var. brevifolia	short-leaved evax	Asteraceae	annual herb	Mar-Jun	1B.2	S2	G4T3
<u>Hesperocyparis pygmaea</u>	pygmy cypress	Cupressaceae	perennial evergreen tree		1B.2	S1	G1
Horkelia marinensis	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	1B.2	S2	G2
Hosackia gracilis	harlequin lotus	Fabaceae	perennial rhizomatous herb	Mar-Jul	4.2	S3	G3G4
<u>Iris longipetala</u>	coast iris	Iridaceae	perennial rhizomatous herb	Mar-May	4.2	S3	G3
Juncus supiniformis	hair-leaved rush	Juncaceae	perennial rhizomatous herb	Apr-May(Jun-Jul)	2B.2	S1	G5
Lasthenia californica ssp. bakeri	Baker's goldfields	Asteraceae	perennial herb	Apr-Oct	1B.2	S1	G3T1
Lasthenia californica ssp. macrantha	perennial goldfields	Asteraceae	perennial herb	Jan-Nov	1B.2	S2	G3T2
<u>Lathyrus palustris</u>	marsh pea	Fabaceae	perennial herb	Mar-Aug	2B.2	S2	G5
<u>Lilium maritimum</u>	coast lily	Liliaceae	perennial bulbiferous herb	May-Aug	1B.1	S2	G2
<u>Lilium rubescens</u>	redwood lily	Liliaceae	perennial bulbiferous herb	Apr-Aug(Sep)	4.2	S3	G3
<u>Listera cordata</u>	heart-leaved twayblade	Orchidaceae	perennial herb	Feb-Jul	4.2	S4	G5
<u>Lycopodium clavatum</u>	running-pine	Lycopodiaceae	perennial rhizomatous herb	Jun-Aug(Sep)	4.1	S3	G5
Microseris borealis	northern microseris	Asteraceae	perennial herb	Jun-Sep	2B.1	S1	G5
Mitellastra caulescens	leafy-stemmed mitrewort	Saxifragaceae	perennial rhizomatous herb	(Mar)Apr-Oct	4.2	S4	G5
Oenothera wolfii	Wolf's evening-primrose	Onagraceae	perennial herb	May-Oct	1B.1	S1	G2
Packera bolanderi var. bolanderi	seacoast ragwort	Asteraceae	perennial rhizomatous herb	(Jan-Apr)May- Jul(Aug)	2B.2	S2S3	G4T4
Phacelia insularis var, continentis	North Coast phacelia	Hydrophyllaceae	annual herb	Mar-May	1B.2	S2	G2T2
<u>Pinus contorta ssp. bolanderi</u>	Bolander's beach pine	Pinaceae	perennial evergreen tree		1B.2	S2	G5T2
<u>Piperia candida</u>	white-flowered rein orchid	Orchidaceae	perennial herb	(Mar)May-Sep	1B.2	S3	G3
Pityopus californicus	California pinefoot	Ericaceae	perennial herb (achlorophyllous)	(Mar-Apr)May-Aug	4.2	S4	G4G5
Pleuropogon refractus	nodding semaphore grass	Poaceae	perennial rhizomatous herb	(Mar)Apr-Aug	4.2	S4	G4
Puccinellia pumila	dwarf alkali grass	Poaceae	perennial herb	Jul	2B.2	SH	G4?
Ramalina thrausta	angel's hair lichen	Ramalinaceae	fruticose lichen (epiphytic)		2B.1	S2?	G5

1/14/2020 CNPS Inventory Results

Rhynchospora alba	white beaked-rush	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S2	G5
Sanguisorba officinalis	great burnet	Rosaceae	perennial rhizomatous herb	Jul-Oct	2B.2	S2	G5?
Sidalcea malachroides	maple-leaved checkerbloom	Malvaceae	perennial herb	(Mar)Apr-Aug	4.2	S3	G3
Sidalcea malviflora ssp. purpurea	purple-stemmed checkerbloom	Malvaceae	perennial rhizomatous herb	May-Jun	1B.2	S1	G5T1
Tiarella trifoliata var. trifoliata	trifoliate laceflower	Saxifragaceae	perennial rhizomatous herb	(May)Jun-Aug	3.2	S2S3	G5T5
Trifolium trichocalyx	Monterey clover	Fabaceae	annual herb	Apr-Jun	1B.1	S1	G1
Triquetrella californica	coastal triquetrella	Pottiaceae	moss		1B.2	S2	G2
<u>Usnea longissima</u>	Methuselah's beard lichen	Parmeliaceae	fruticose lichen (epiphytic)		4.2	S4	G4
Veratrum fimbriatum	fringed false-hellebore	Melanthiaceae	perennial herb	Jul-Sep	4.3	S3	G3
<u>Viola palustris</u>	alpine marsh violet	Violaceae	perennial rhizomatous herb	Mar-Aug	2B.2	S1S2	G5

#### **Suggested Citation**

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# ESHA Assessment for the Fort Bragg ADA Improvement Project



Fort Bragg 7.5-minute USGS Quadrangle
State Route 1 Mendocino County PM 59.80 to 62.10
EA 01-0B220; EFIS 0112000110

August 2020





## ESHA Assessment for the Fort Bragg ADA Improvement Project

Mendocino County, State Route 1, Post Miles 59.80 to 62.10

EA: 01-0B220

EFIS: 0112000110

STATE OF CALIFORNIA

Department of Transportation

#### August 2020

Prepared By:  Reed Crane, Environmental Planner (Natural Scient (707) 441-5650  North Region Environmental Planning, E-4 Branch	_Date: <i>8 / 14 / 20</i> ces)
District 1/North Region	
Recommended For Approval By:  Tracy Walker, Associate Environmental Planner (Na. (707) 445-6432  North Region Environmental Planning, E-4 Branch District 1/North Region	Date: 8/14/2020 atural Sciences)
Approved By: Liza Walker Liza Walker, Branch Chief	Date: 8/14/2020
Liza Walker, Branch Chief	
(707) 441-5602 North Region Environmental Planning, E-4 Branch	
District 1/North Region	

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## **Chapter 1. Introduction**

This Environmentally Sensitive Habitat Area (ESHA) Assessment was conducted as a condition of the California Coastal Act and the City of Fort Bragg Coastal Zoning Code for the Fort Bragg Americans with Disabilities Act (ADA) Improvement Project (project). The purpose of the analysis was to describe the existing vegetation communities, survey for special-status plant species and wetlands, and recommend appropriate mitigation measures to reduce impacts to sensitive habitat areas and buffers, which are considered EHSAs under the Fort Bragg Local Coastal Program (LCP) (City of Fort Bragg 2008).

This report summarizes information gathered from previously conducted surveys for the project as well as investigations conducted solely for the purpose of this ESHA Assessment. It includes a review of special-status natural communities and species, wetlands and other sensitive resources that meets the definition of ESHA as defined by the Fort Bragg LCP.

#### 1.1 Regulatory Background

Under Section 17.71.045.D.4 of the City of Fort Bragg's Coastal Land Use and Development Code (CLUDC), "an inventory of the plant and animal species present on the project site, or those known or expected to be present on the project site at other times of the year, prepared by a qualified biologist or resource expert" shall be provided as part of a Coastal Development Permit Application package. Furthermore, "Where the initial site inventory indicates the presence or potential for sensitive species or environmentally sensitive habitat on the project site, the submittal of a detailed biological report of the site is required, consistent with the requirements of Section 17.50.050" of the CLUDC (Fort Bragg 2018).

Section 17.50.050 of the CLUDC outlines the requirements for "the protection and enhancement of environmentally sensitive habitat areas (ESHAs), when development is proposed adjacent to, or within environmentally sensitive habitat areas." Under Element 04 *Conservation, Open Space, Energy and Parks* of the Fort Bragg Coastal General Plan, an ESHA is defined as follows:

"Environmentally sensitive habitat area" means any area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments" (Fort Bragg 2008).

Policy Open Space (OS)-1.1 continues to describe EHSA known to occur locally "including, but not limited to, portions of coastal bluffs, biologically rich tide pools, nesting grounds, kelp beds, wetlands, riparian habitats, and rare, threatened, or endangered plants or plant communities (Fort Bragg 2008). Map OS-1 (Figure 2 in Appendix A) delineates known ESHA in the Fort Bragg area, but is not an exhaustive map (Fort Bragg 2008). Furthermore, Policy OS-1.2 includes the following areas as ESHA:

- Any habitat area that is rare or especially valuable because of their special nature or role in an ecosystem and is easily degraded or disturbed by human activities or developments.
- Any habitat area of plant or animal species designated as rare, threatened, or endangered under State or Federal law.
- Any habitat area of species designated as Fully Protected or Species of Special Concern under State law or regulations.
- Any habitat area of plant species for which there is compelling evidence of rarity, for example, those designated 1b (Rare or endangered in California and elsewhere) or 2 (rare, threatened or endangered in California but more common elsewhere) by the California Native Plant Society.

#### 1.2 Project Description

The project will upgrade a section of State Route (SR) 1 to current ADA standards. This project is in the ADA Compliance Program of the State Highway Operation and Protection Program (SHOPP). It is located on SR 1 in Mendocino County in the City of Fort Bragg (Attachment A), beginning at the intersection of SR 20 north to Elm Street, with a gap in work along the Noyo River Bridge. This project is needed to address ADA deficiencies and comply with conditions of the 2010 ADA lawsuit settlement. This segment of SR 1 within the city of Fort Bragg was identified as a priority location for ADA upgrades due to its urban nature, traffic volumes, and pedestrian traffic. Based on the current project description as described below, Caltrans has determined this action would not affect special-status taxa, sensitive natural communities, wetlands, jurisdictional waters, essential fish habitat or federally designated critical habitat.

There is currently one alternative for the proposed project. To bring this location of SR 1 to current ADA standards, the scope of work entails reconstructing 1,384 linear feet of sidewalk, installing 1,100 linear feet of new sidewalk, constructing 37 curb ramps, installing

a new 741 linear foot retaining wall, performing associated drainage inlet and culvert work, and placing pavement markings at specified locations (See Local Coastal Development Permit (LCDP) Application Enclosures for Project Plans and Drainage Plans). The retaining wall will be approximately 10 feet tall at its highest point near SR 20 and will reduce in height moving north. The retaining wall will be approximately 1' wide with a concrete footing that is 7 feet wide and 1.25 feet deep. The maximum depth of excavation is estimated to be 3 feet from finished grade. The various project work locations total approximately 2.3 miles of construction.

Caltrans will obtain Temporary Construction Easements (TCEs) for a total of 30 properties. As of July 2020, Caltrans has obtained 7 TCEs and will be working to obtain the remaining 23 TCEs.

#### Project Equipment List

The following equipment will be utilized to perform the various construction activities: bulldozer, excavator, saw cutter, slip form paving machine, concrete mixer, and support trucks.

#### Project Construction Scenario

The following steps will be completed to obtain the project scope:

#### 1) Construction of retaining wall, curbs, gutters, and sidewalks:

- Prepare the existing subgrade by removing the base material to a depth of three to six inches below the subgrade elevation.
- Backfill the subgrade with earth, sand, or gravel to produce a stable foundation.
- Apply water to the subgrade and compact it before placing concrete.
- Short segments of the curb would be placed using the fixed form method with temporary form work.
- Long segments of the curb would be placed using extrusion and slip molding. The slip form paving machine would be operated in the closed traffic lane, along with a concrete truck.
- Construct the new sidewalk, retaining wall, curb, and gutters.

#### 2) Reconstructing curb ramps and driveways:

- Saw-cut the existing sidewalk.
- Remove the existing curb ramp or driveway.

- Prepare the existing subgrade by removing the base material to a depth of three to six inches below the subgrade elevation.
- Backfill the subgrade with earth, sand, or gravel to produce a stable foundation.
- Apply water to the subgrade and compact it before placing concrete.
- Construct the new curb ramp or driveway.

#### 3) Construction of new drainage inlets and culverts:

- Saw-cut and remove the existing pavement.
- Excavate a trench to the required grade.
- Install the drainage grate or the CSP culvert with a lifting crane.
- Backfill the trench with required material.

The installation of new sidewalks, driveways, and the retaining wall will involve minor clearing and grubbing of soil and vegetation. Staging is anticipated to utilize existing paved shoulders and developed gravel turnouts.

Temporary traffic control will be used, as required for safety, and consist of portable delineators and traffic signs for a single lane closure for all phases of the project. Temporary traffic control will be removed after project activities have ended.

High visibility crosswalk pavement markings will be placed throughout project limits.

Excess material will be disposed of at an appropriate disposal site per Caltrans Standard Specifications.

#### 1.3 Project Features, Standard Measures, and Best Management Practices

In compliance with several State and federal laws, Caltrans implements standard measures during construction. These standard measures and Best Management Practices (BMPs) are identified in Caltrans Standard Specifications, Standard Special Provisions, other manuals, or may otherwise be standard business practices. The following standard measures and BMPs would be included as part of the project:

- Equipment would be inspected daily for leaks and completely cleaned of any external petroleum products, hydraulic fluid, coolants, and other deleterious materials prior to operating equipment.
- Measures will be in place to prevent construction equipment effluents from contaminating soil or waters in the construction site, such as absorbent pads.

- Maintenance and fueling of construction equipment and vehicles would occur at least 50 feet away from the ordinary high-water mark (OHWM) of surface water or the edge of sensitive habitats (e.g., wetlands).
- The contractor would be required to develop and implement site-specific BMPs and emergency spill controls.
- Water in contact with setting concrete would be pumped into a tank truck and disposed at an approved disposal site or settling basin.
- All unused material from the project would be disposed off-site. The Caltrans Resident Engineer would be responsible for ensuring all requirements for disposal of material are met by the contractor.
- If bird nests are found incidentally, buffer areas would be established around active nests with input from the California Department of Fish and Wildlife (CDFW). Construction activities that may potentially disturb birds would not occur within the buffer area. The buffer areas would be marked as environmentally sensitive and nests would be monitored for disturbance behaviors by a qualified biologist.

## **Chapter 2. Study Methods**

#### 2.1 Previous Studies

A biological resources evaluation was conducted in 2019 and 2020 for the project (Caltrans 2020). A Biological Resources Evaluation Memo was prepared to summarize these studies and should be referenced in conjunction with this ESHA Assessment (Caltrans 2020; See LCDP Enclosures).

Prior to conducting field visits, regional lists of special status wildlife and plant species were created by querying the following databases:

- United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC).
- National Marine Fisheries Service (NMFS) Species List Tools for the *Fort Bragg* quadrangle.
- California Natural Diversity Database (CNDDB), California Department of Fish and Wildlife for the following USGS 7.5 minute quadrangles: Fort Bragg, Inglenook, Dutchman's Knoll, Noyo Hill, Mathison Peak, and Mendocino.
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants for the following USGS 7.5 minute quadrangles: *Fort Bragg, Inglenook, Dutchman's Knoll, Noyo Hill, Mathison Peak*, and *Mendocino*.

• The USFWS National Wetlands Inventory (NWI) database was reviewed to determine if documented wetlands exist within the project environmental study limits (ESL).

The results of these queries, except for the NWI database, can be found in Appendices E, F, G, and H of the Biological Resources Evaluation Memo included in the LCDP application (Caltrans 2020). A table containing listed and proposed species, as well as natural communities and critical habitats potentially occurring in the project area can be found in Appendix C of this Assessment.

Field surveys were conducted in order to assess habitats and identify potential sensitive biological resources. Rare plant surveys and wetland investigations were conducted by Caltrans biologists Tracy Walker, Jeremy Pohlman, Reed Crane, Eric Rulison, Dawn Graydon, and Annie Allen on May 10, 2019, June 13, 2019, and July 31, 2019. Host plant surveys and habitat assessment for the Behren's silverspot butterfly (BSSB) (*Speyeria zerene behrensii*) and lotis blue butterfly (LBB) (*Lycaeides argyrognomon lotis*) were conducted by Caltrans biologists Dawn Graydon and Tracy Walker on March 22, 2019, and May 10, 2019.

#### 2.2 Environmentally Sensitive Habitat Areas Methods

Field surveys for ESHAs were conducted within the project area and within a 100-feet biological study area (BSA) buffer around the environmental study limits (ESL) to ensure that all potential ESHAs were captured in the Assessment. The Fort Bragg 2018 USGS 7.5-minute quadrangle map was examined for any potential mapped streams within the project limits (USGS 2018). Additionally, maps of the ESL and the BSA were compared to Map OS-1 (Figure 2) to determine whether the project overlapped with any existing, documented ESHAs.

## **Chapter 3. Results**

Per Section 17.71.045.D.4 of the City of Fort Bragg's CLUDC, "where the initial site inventory indicates the presence of potential for sensitive species or environmentally sensitive habitat on the project site, the submittal of a detailed biological report of the site is required, consistent with the requirements of Section 17.50.050" of the CLUDC. Section 17.50.050 "provides requirements for the projection and enhancement of ESHAs, when development is proposed *adjacent to*, or *within* environmentally sensitive habitat areas" (Fort Bragg 2018).

#### 3.1 ESHAs within the BSA and Potential Impacts

For the proposed project, one area containing potential riparian and/or wetland ESHA was identified outside of the ESL, but within the 100-foot ESHA study buffer (Figure 4 in Appendix A). The potential forested, seasonally flooded wetland and/or riparian area occurs along the western side of SR 1 beyond an existing wooden fence from PM 60.85 to PM 61.12. It should be noted that the potential ESHA(s) was not identified on Map OS-1 or on the NWI surface waters and wetlands map.

The nearest proposed construction would involve curb ramp reconstruction, sidewalk removal and replacement, drainage inlet construction, and culvert extensions (to connect existing culverts to proposed drainage inlets) on the eastern side of the highway as shown in Layout Sheets 9, 10, 11, and 12 provided as part of this application package. All proposed construction would occur approximately 80-100 feet away from the potential ESHA(s) (potential ESHA(s) are on the western side of SR 1 from PM 60.86 to PM 61.12). Furthermore, proposed construction activities would not encroach on the existing buffer between the ESHA(s) and existing development.

Additionally, the existing drainage patterns would not be modified as part of the proposed project. As noted in the 2019 Water Quality Assessment for the Fort Bragg ADA Improvement project, any "increase in rate and volume of stormwater flow associated with [an] increase in NIS [(new impervious surface)] is not anticipated to result in any adverse modification" (Caltrans 2019). The Water Quality Assessment also found that "inclusion of appropriate temporary and permanent BMPs...will avoid potential impacts to water quality and meet the requirements of Caltrans NPDES Permit..." (Caltrans 2019).

High visibility fencing (HVF) would not be necessary to ESHA ensure protection because there is an existing wooden fence that already isolates the potential ESHA from the developed roadway. Furthermore, no construction or staging is proposed on the western side of the highway near the potential ESHA(s).

## Chapter 4. Conclusion

Caltrans biologists have determined that the potential ESHA does not warrant further study or discussion in context with this project since there is no potential for impacts to the ESHA as a result of the proposed construction activities. The only new development proposed as

part of this project is the retaining wall shown in Layout Sheets 1 and 2. Construction of this retaining wall has no potential to impact any potential ESHA. As described in Chapter 4 of this assessment, construction and reconstruction of sidewalks, drainage inlets, curb ramps, and culverts does not have potential to impact the potential ESHA, nor would it infringe on the existing buffer between existing development and the ESHA.

As noted in 17.50.050 of the City of Fort Bragg's CLUDC, a detailed biological resources report should be included in the LCDP application package "when development is proposed *adjacent to* or *within* environmentally sensitive habitat areas" (Fort Bragg 2018). Caltrans has determined that "a detailed biological resources report" would not be required for this LCDP application because the proposed construction activities are not "adjacent to or within" the potential ESHAs identified during field surveys within the BSA. Furthermore, the existing buffer includes 5 lanes of existing Highway 1, the shoulder and Highway 1, and an existing wooden fence. This buffer would not be encroached on or reduced by proposed construction activities. Because the existing buffer would not be impacted, reduced, or encroached on, a reduced buffer analysis, as pointed out in Section 17.50.050.B.2.i and OS-1.9, is not warranted in this case.

The contents of this ESHA assessment in conjunction with the Biological Resources Evaluation Memo should sufficiently demonstrate compliance with Sections 17.50.050 and 17.71.045 of the City of Fort Bragg's LCP.

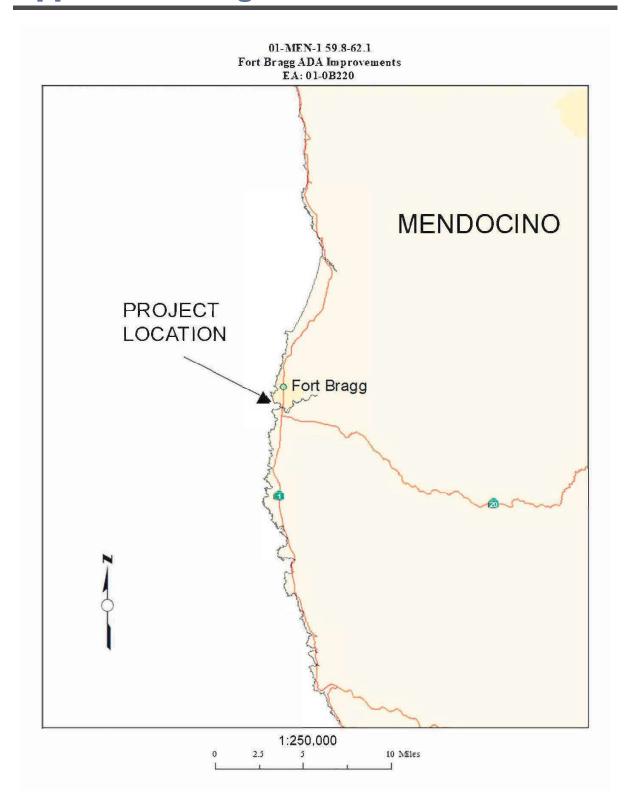
## **Chapter 5. References**

Minute Series.

	nia Department of Transportation (Caltrans). 2020. Biological Resources Evaluation Memo for the Fort Bragg ADA Improvement Project.
	2019. Water Quality Assessment Memorandum for Fort Bragg ADA Project.
City of	Fort Bragg. 2018. Coastal Land Use and Development Code.
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	sh and Wildlife Service (USFWS). 2019. Publication date (found in metadata). National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. https://fws.gov/wetlands/nwi/Overview.html. Accessed February 4, 2019.

U.S. Geological Survey (USGS). 2018. Fort Bragg Quadrangle, California, Mendocino, 7.5

## **Appendix A Figures**



**Figure 1 Vicinity Map** 

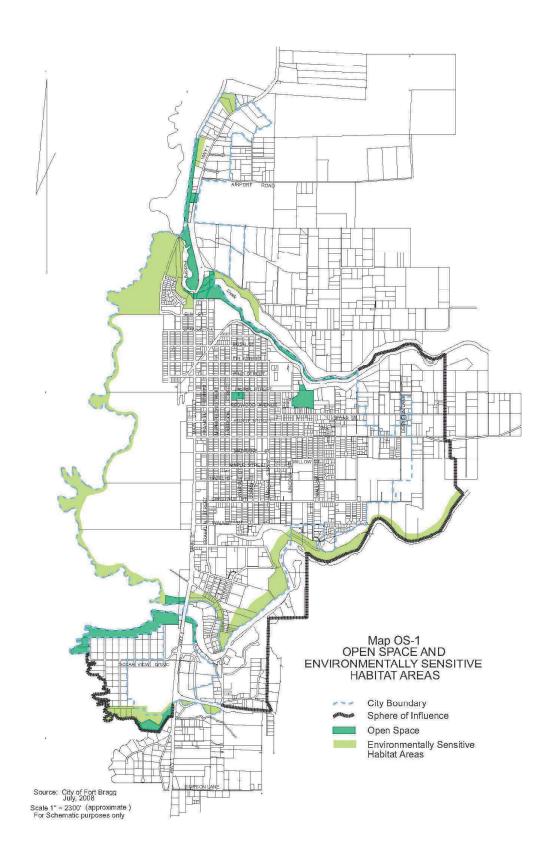
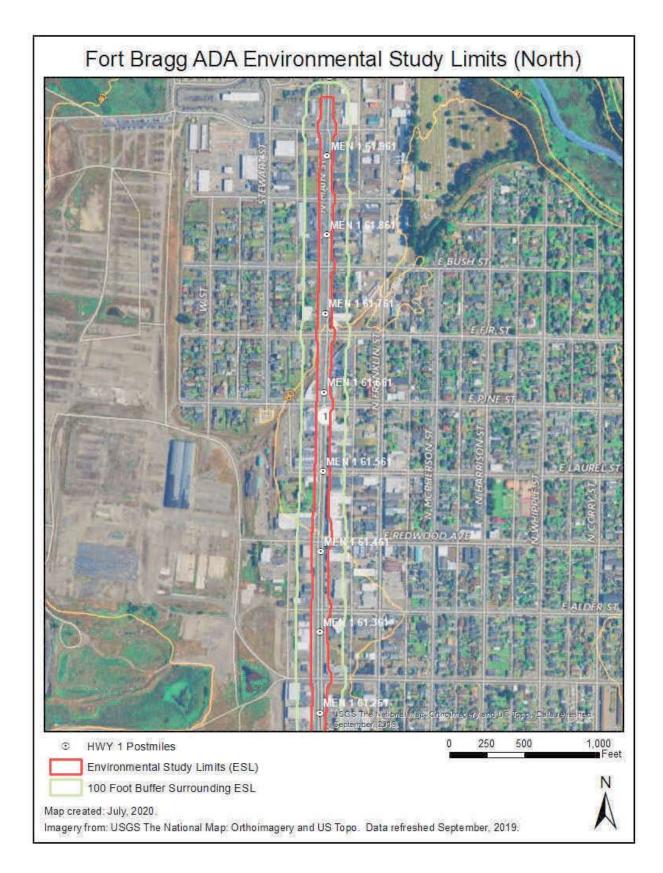


Figure 2 Map OS-1: Open Space and Environmentally Sensitive Habitat Areas



**Figure 3 Fort Bragg ADA Environmental Study Limits (Northern Extent)** 



**Figure 4 Fort Bragg ADA Environmental Study Limits (Middle Extent)** 

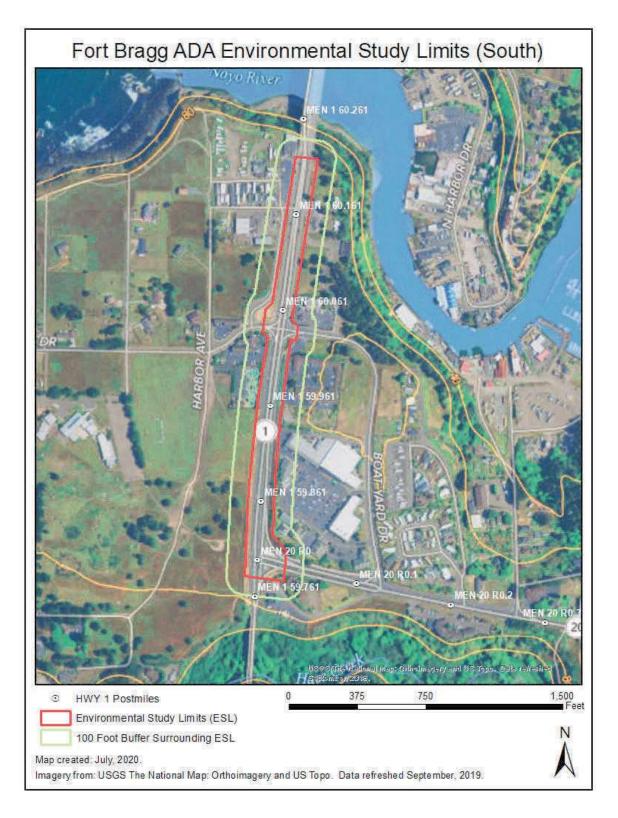


Figure 5 Fort Bragg ADA Environmental Study Limits (Southern Extent)

## **Appendix B Photos**



**Photo 1:** Shows fencing that separates roadway from area of potential ESHA(s) on the north side of the area containing potential ESHA(s).



Photo 2: Shows State Route 1 at approximately postmile 61.1 from south to north. The area containing potential ESHA(s) is on the left (west) side of the roadway, and area of proposed construction is on the right (east) side of the roadway.



Photo 3: Shows the existing wooden fence that separates the area of potential ESHA(s) from the existing roadway. Fence exists between approximately 5 to 15 feet west of the existing paved roadway.



Photo 4: Shows the existing wooden fence on the west side of State Rout 1. Potential ESHA exists on the west side of the existing wooden fence.



**Photo 5:** Shows the area of potential ESHA(s) on the west side of State Route 1. Existing fence separates the existing roadway from the potential ESHA(s).

# **Appendix C** Table of Potentially Sensitive Species and Habitats Potentially Occurring or Known to Occurr in the Project Area

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
<b>AMPHIBIANS</b>					
Ascaphus truei	Coastal tailed frog	-/SSC	Cool, perennial, swiftly flowing streams in redwood, Douglas-fir, and yellow pine forests.	Absent	No suitable habitat in ESL.
Rana aurora	Northern red-legged frog	-/SSC	Densely vegetated shorelines, quiet pools in streams and marshes, occasionally ponds, in North Coast below 4000 ft.	Absent	No suitable habitat in ESL.
Rana boyli	Foothill yellow- legged frog	-/SSC	In/near rocky streams with cool and ephemeral to permanent water, in a variety of habitats; may be found in isolated pools.	Absent	No suitable habitat in ESL.
Rana draytonii	California red-legged frog	T/SSC	Found near ponded water in a variety of habitats; breeds in ephemeral to permanent water such as lakes, ponds, slow streams, swamps, and reservoirs.	Absent	No effect to species or CH. Not known north of Navarro River. No suitable habitat in ESL.
Rhyacotriton variegatus	Southern torrent salamander	-/SSC	Cold, well-shaded, permanent streams and seepages, or within splash zone or on moss-covered rock within trickling water.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Taricha rivularis	Red-bellied newt	-/SSC	Coastal drainages from Humboldt County south to Sonoma County. Found in coastal woodlands and redwood forests; breed in streams with rocky substrate and fast flows.	Absent	No suitable habitat in ESL.
BIRDS					
Accipiter gentilis	Northern goshawk	-/SSC	Nests and forages in mature coniferous forests with dense canopy and open understory.	Absent	No suitable habitat in ESL.
Brachyramph us marmoratus	Marbled murrelet	T/E	Mature, coastal coniferous forests for nesting up to 35 miles inland; nearby coastal water for foraging; winters on subtidal and pelagic waters, often well offshore.	Absent	No effect to species or CH. No suitable habitat in ESL.
Charadrius alexandrinus nivosus	Western snowy plover	T/SSC	Coastal beaches above the normal high tide limit with wood or other debris for cover. Inland shores of salt ponds and alkali or brackish inland lakes.	Absent	No effect to species or CH. No suitable habitat in ESL.
Coccyzus americanus occidentalis	Western yellow-billed cuckoo	FT/SE	Wide, dense riparian forests with a thick understory of willows for nesting; prefers sites with a dominant cottonwood overstory for foraging; may avoid valley oakriparian habitats where scrub jays are abundant.	Absent	No effect to species or CH. No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Elanus leucurus	White-tailed kite	/FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Prefers open grasslands, meadows, or marshes for foraging; close to isolated trees for nesting and perching.	Absent	No suitable habitat in ESL.
Falco peregrinus anatum	American peregrine falcon	D/D, FP	Nests in a variety of locations from coastal cliffs to tall buildings or bridges within urban areas, usually adjacent to water features supporting a large prey population.	Absent	No suitable habitat in ESL.
Fratercula cirrhata	Tufted puffin	-/SSC	Nests in deep burrows within islands and cliffs along the coast. Forages in pelagic waters of the north Pacific.	Absent	No suitable habitat in ESL.
Haliaeetus leucocephalu s	Bald eagle	DL/SE	Ocean shore, lake margins, and rivers for both nesting and wintering. Typically nest within 1 mile of water, in large, oldgrowth, or dominant live trees with open branches. Roost communally in winter.	Absent	No Effect. No nesting habitat in ESL.
Oceanodrom a homochroa	Ashy storm- petrel	-/SSC	Nests in natural rock crevices found on offshore islands. Forages in nearby coastal waters of the continental slope.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Phoebastris (=Diomedea) albatrus	Short-tailed albatross	E/-	Nests on two Japanese islands: Torishima and Minami-kojima. When at sea feeding, they range across the North Pacific, to as far west as California.	Absent	No effect. No suitable habitat in ESL.
Progne subis	Purple martin	-/SSC	Nests in abandoned woodpecker holes in trees in a variety of wooded and riparian habitats, and vertical drainage holes under elevated freeways and highway bridges.	Absent	No suitable habitat in ESL.
Strix occidentalis caurina	Northern spotted owl	T/T	Dense old-growth or mature forests dominated by conifers with topped trees or oaks available for nesting crevices.	Absent	No effect to species or CH. No suitable habitat in ESL.
FISH					
Acipenser medirostris	Southern DPS green sturgeon	T/SSC	Occupy nearshore oceanic waters, bays, and estuaries, returning to large freshwater rivers to spawn.	Absent	No effect to species or CH. No suitable habitat in ESL.
Entosphenus tridentatus	Pacific lamprey	-/SSC	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No suitable habitat in ESL.
Eucyclogobiu s newberryi	Tidewater goby	E/SSC	On bottom or existing on submerged plants in shallow weedy areas of coastal lagoons and estuaries.	Absent	No effect to species or CH. No suitable habitat in ESL.
Oncorhynchu s kisutch	Central California Coast (CCC) ESU coho salmon	E/E	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No effect to species or CH. No suitable habitat in ESL.
Oncorhynchu s mykiss	Northern California (NC) DPS steelhead	T/-	Cool freshwater streams and rivers, require sand and gravel for spawning.	Absent	No effect to species or CH. No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Oncorhynchu s tshawytscha	California Coastal (CC) ESU Chinook salmon	T/-	Ocean and coastal streams.	Absent	No effect to species or CH. No suitable habitat in ESL.
INVERTEBRA	TES				
Bombus occidentalis	Western bumble bee	-/CE	Generalist foragers. Require pollen from floral resources throughout the duration of the colony period (spring to fall), and suitable overwintering sites for the queens. Nest in underground cavities and in open west-southwest slopes bordered by trees.	Absent	No effect. No suitable habitat in ESL.
Plebejus idas lotis (=Lycaeides argyrognomo n) lotis	Lotis blue butterfly	E/-	Coastal sphagnum bogs, wet prairies with larval host plants (Hosackia gracilis) and adjacent shelter trees.	Absent	No suitable habitat in ESL.
Speyeria zerene behrensii	Behren's silverspot butterfly	E/-	Early successional coastal prairie and dune habitats with larval host plants (Viola adunca) and various nectar plants.	Absent	No suitable habitat in ESL.
MAMMALS			Name facine		
Aplodontia rufa nigra	Point Arena mountain beaver	E/SSC	North-facing, wooded slopes of ridges or gullies where there is abundant moisture, thick under-growth, and soft soil for burrowing, southern Mendocino County. Point Arena north to a few miles south of Elk.	Absent	No suitable habitat in ESL. Project area is outside of species' known range.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Arborimus pomo	Sonoma tree vole	-/SSC	Coastal forests Humboldt to Sonoma counties, old-growth forests of Douglas-fir, redwood, or montane hardwood-conifer species.	Absent	No suitable habitat in ESL.
Arctocephalu s townsendi	Guadalupe fur seal	T/-	Islands off of Mexico, Baja, and Southern California.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera borealis	Sei whale	E/-	Prefer temperate waters in the mid-latitudes, and can be found in the Atlantic, Indian, and Pacific Oceans.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera musculus	Blue whale	E/-	Circumboreal, subpolar to sub- tropical; generally, more offshore than other whales.	Absent	No effect. No suitable habitat in ESL.
Balaenoptera physalus	Fin whale	E/-	Deep, offshore waters of all major oceans, primarily temperate to polar latitudes.	Absent	No effect. No suitable habitat in ESL.
Corynorhinus townsendii	Townsend's big-eared bat	-/SSC	Roosts in caves, tunnels, mines, and dark attics of abandoned buildings.	Absent.	No suitable habitat in ESL.
Eubalaena japonica	North Pacific right whale	E/-	Forages in mid- depth, offshore waters of the north Pacific Ocean, primarily temperate to polar latitudes.	Absent	No effect. No suitable habitat in ESL.
Megaptera novaeangliae	Humpback whale (Western North Pacific)	E/-	California/Oregon/ Washington stock winter in coastal Central America- Mexico and migrate to California and southern British Columbia in summer/fall.	Absent	No effect. No suitable habitat in ESL.
Orcinus orca	Southern Resident killer whale	E/-	Most abundant in colder waters, including Antarctica, the North Atlantic and Pacific Oceans.	Absent	No effect to species or CH. No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Physeter macrocephal us	sperm whale	E/-	Circumboreal; typically found below 1968 feet deep.	Absent	No effect. No suitable habitat in ESL.
Pekania pennanti	Fisher, West Coast DPS	PT/SC T	Intermediate to large- tree stages of coniferous forests and deciduous- riparian areas with high percent canopy closure. They utilize cavities, snags, logs and rocky areas for cover and denning.	Absent	No effect to species. No suitable habitat in ESL.
REPTILES					
Chelonia mydas	East Pacific green sea turtle	T/-	Found in tropical and subtropical waters, shallows, bays and inlets; does not nest in mainland U.S. Pacific Coast.	Absent	No effect. No suitable habitat in ESL.
Dermochelys coriacea	Leatherback sea turtle	E/-	Mainly pelagic, but also forages in coastal waters; does not nest in mainland U.S. Pacific Coast.	Absent	No effect to species or CH. No suitable habitat in ESL.
Emys marmorata	western pond turtle	-/SSC	Found in a variety of aquatic habitats, preferring habitats with large areas for cover and basking sites. Overwinters terrestrially in burrows of leaf litter or soil.	Absent	No suitable habitat in ESL.
Lepidochelys olivacea	Olive ridley sea turtle	E/-	Tropical regions of the South Atlantic, Pacific and Indian Oceans; not known to nest in U.S. western Pacific Ocean.	Absent	No effect. No suitable habitat in ESL.
PLANTS					
Abronia umbellate var. brevifolia	pink sand- verbena	-/-/1B.1	Coastal dune and strand.	Absent	No suitable habitat in ESL.
Agrostis blasdalei	Blasdale's bent grass	-/-/1B.2	Coastal bluff scrub, dunes and prairie.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Arctostaphylo s nummularia ssp. mendocinoen sis	pygmy manzanita	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Astragalus agnicidus	Humboldt County milk vetch	-/-/1B.1	Upland and coniferous forest openings, disturbed areas and roadsides.	Absent	No suitable habitat in ESL.
Blennosperm a nanum var. robustum	Point Reyes blennosper ma	-/-/1B.2	Coastal prairie and scrub.	Absent	No suitable habitat in ESL.
Calamagrosti s crassiglumis	Thurber's reed grass	-/-/2B.1	Marshy swales, mesic coastal prairie and scrub.	Absent	No suitable habitat in ESL.
Calystegia purpurata ssp. saxicola	coastal bluff morning- glory	-/-/1B.2	Coastal dunes and scrub, North Coast coniferous forest.	Absent	No suitable habitat in ESL.
Campanula californica	swamp harebell	-/-/1B.2	Bogs and fens, mesic coniferous forest, meadows and seeps, freshwater marshes and swamps.	Absent	No suitable habitat in ESL.
Carex californica	California sedge	-/-/2A	Coastal bogs and fens; presumed extinct in California.	Absent	No suitable habitat in ESL.
Carex livida	lagoon sedge	-/-/2B.2	Coastal marshes, swamps, mostly tidal.	Absent	No suitable habitat in ESL.
Carex livida	livid sedge	-/-/2A	Sphagnum bogs.	Absent	No suitable habitat in ESL.
Carex lyngbyei	Lyngbye's sedge	-/-/2B.2	Brackish or freshwater coastal marshes, swamps, sloughs.	Absent	No suitable habitat in ESL.
Carex saliniformis	deceiving sedge	-/-/1B.2	Coastal marshes, wet meadows, sparsely vegetated area.	Absent	No suitable habitat in ESL.
Carex viridula ssp. viridula	green yellow sedge	-/-/2B.3	Coastal marshes, swamps, bogs, fens.	Absent	No suitable habitat in ESL.
Castilleja ambigua var. humboldtiens is	Humboldt Bay owl's- clover	-/-/2B.2	Coastal salt marshes, sloughs.	Absent	No suitable habitat in ESL.
Castilleja litoralis	Oregon coast paintbrush	-/-/2B.2	Sandy soils in coastal bluff scrub, dunes and scrub.	Absent	No suitable habitat in ESL.
Castilleja mendocinens is	Mendocino Coast paintbrush	-/-/1B.2	Coastal bluff scrub, dunes, prairie and scrub, closed-cone coniferous forest.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Chorizanthe howellii	Howell's spineflower	E/T/1B. 2	Coastal dunes and prairie, roadsides, sandy soil.	Absent	No effect. No suitable habitat in ESL.
Clarkia amoena ssp. whitneyi	Whitney's farewell-to-spring	-/-/1B.1	Coastal bluff scrub and coastal scrub.	Absent	No suitable habitat in ESL.
Colllinsia corymbosa	round- headed Chinese- houses	-/-/1B.2	Coastal dunes and prairie.	Absent	No suitable habitat in ESL.
Cornus canadensis	bunchberry	-/-/2B.2	Shaded forests, bogs, fens.	Absent	No suitable habitat in ESL.
Cuscuta pacifica var. papillata	Mendocino dodder	-/-/1B.2	Dry coastal dunes, on Lupinus, Gnaphalium, Silene.	Absent	No suitable habitat in ESL.
Erigeron supplex	supple daisy	-/-/1B.2	Chaparral.	Absent	No suitable habitat in ESL.
Erysimum concinnum	bluff wallflower	-/-/1B.2	Coastal dunes, coastal bluff scrub, and coastal prairie.	Absent	No suitable habitat in ESL.
Erysimum menziesii (all subspecies except E. concinnum)	Menzies' wallflower	E/E/1B.	Coastal dunes.	Absent	No effect. No suitable habitat in ESL.
Fritillaria roderickii	Roderick's fritillary	- /E/1B.1	Coastal bluff scrub, coastal prairie, valley and foothill grassland.	Absent	No effect. No suitable habitat in ESL.
Gilia capitata ssp. pacifica	Pacific gilia	-/-/1B.2	Coastal bluff scrub, chaparral (openings), coastal prairie, valley and foothill grassland.	Absent	No suitable habitat in ESL.
Gilia millefoliata	dark-eyed gilia	-/-/1B.2	Coastal dunes.	Absent	No suitable habitat in ESL.
Hemizonia congesta ssp. congesta	congested- headed hayfield tarplant	-/-/1B.2	Valley and foothill grasslands, sometimes roadsides.	Absent	No suitable habitat in ESL.
Hesperevax sparsiflora var. brevifolia	short-leaved evax	-/-/1B.2	Coastal bluff scrub (sandy), coastal dunes.	Absent	No suitable habitat in ESL.
Hesperocypa ris pygmaea	pygmy cypress	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Horkelia marinensis	Point Reyes horkelia	-/-/1B.2	Coastal dunes, prairies, scrub.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Juncus supiniformis	hair-leaved rush	-/-/2B.2	Bogs, fens, freshwater marshes.	Absent	No suitable habitat in ESL.
Kopsiopsis hookeri	small groundcone	-/-/2B.3	Dry forest and chaparral habitats.	Absent	No suitable habitat in ESL.
Lasthenia californica ssp. bakeri	Baker's goldfields	-/-/1B.2	Closed-cone coniferous forest (openings), Coastal scrub, meadows and seeps, marshes and swamp.	Absent	No suitable habitat in ESL.
Lasthenia californica ssp. macrantha	perennial goldfields	-/-/1B.2	Coastal bluff scrub, coastal dunes, Coastal scrub.	Absent	No suitable habitat in ESL.
Lathyrus palustris	marsh pea	-/-/2B.2	Variety of wet coastal habitats.	Absent	No suitable habitat in ESL.
Lilium maritimum	coast lily	-/-/1B.1	Coastal forests, prairie, scrub, freshwater marshes and swamps, sometimes roadsides.	Absent	No suitable habitat in ESL.
Microseris borealis	northern microseris	-/-/2B.1	Bogs, seeps, wet meadows, mesic forests.	Absent	No suitable habitat in ESL.
Oenothera wolfii	Wolf's evening- primrose	-/-/1B.1	Variety of coastal habitats that are sandy and mesic.	Absent	No suitable habitat in ESL.
Packera bolanderi var. bolanderi	seacoast ragwort	-/-/2B.2	Coastal rocky/gravelly slopes, cliffs, in Coastal scrub and coniferous forest habitats.	Absent	No suitable habitat in ESL.
Phacelia insularis var. continentis	North Coast phacelia	-/-/1B.2	Sandy, coastal bluff scrub, prairie and dunes.	Absent	No suitable habitat in ESL.
Pinus contorta ssp. bolanderi	Bolander's beach pine	-/-/1B.2	Closed-cone coniferous forest, only in coastal pygmy forests.	Absent	No suitable habitat in ESL.
Piperia candida	white- flowered rein orchid	-/-/1B.2	Coniferous forests in Northwest CA and north.	Absent	No suitable habitat in ESL.
Puccinellia pumila	dwarf alkali grass	-/-/2B.2	Coastal salt marshes and swamps.	Absent	No suitable habitat in ESL.
Ramalina thrausta	angel's hair lichen	-/-/2B.1	Coniferous forests in Northwest CA and north.	Absent	No suitable habitat in ESL.
Rhynchospor a alba	white beaked-rush	-/-/2B.2	Bogs, swamps, fens, forest wetlands.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Sanguisorba officinalis	great burnet	-/-/2B.2	Variety of wetland and forested habitats, often with serpentinite soil.	Absent	No suitable habitat in ESL.
Sidalcea malviflora ssp. patula	Siskiyou checkerbloo m	-/-/1B.2	Coastal buff scrub and prairie, roadsides.	Absent	No suitable habitat in ESL.
Sidalcea malviflora ssp. purpurea	purple- stemmed checkerbloo m	-/-/1B.2	Coastal prairie, forest openings.	Absent	No suitable habitat in ESL.
Trifolium trichocalyx	Monterey clover	E/E/1B. 1	Closed-cone coniferous forest (sandy, openings, burned areas).	Absent	No effect. No suitable habitat in ESL and project not within range of species.
Triquetrella californica	coastal triquetrella	-/-/1B.2	Coastal scrub and coastal bluff scrub.	Absent	No suitable habitat in ESL.
Viola palustris	alpine marsh violet	-/-/2B.2	Coastal bogs and fens, and mesic coastal scrub.	Absent	No suitable habitat in ESL.
SENSITIVE HA	ABITATS				
Coastal Bracki	sh Marsh	-/S2.1	In shallow, standing or slow-moving waters in coastal bays, estuaries and lagoons, where fresh water meets salt water in a tidal area.	Absent	No suitable habitat in ESL.
Coastal and Va Freshwater Ma		-/S2.1	In shallow, standing or slow-moving fresh water at the edge of ponds and streams, typically permanently flooded; dominated by cattails and bulrushes.	Absent	No suitable habitat in ESL.
Fen		-/S2.1	Groundwater-fed wetland with permanently waterlogged soils ranging in pH levels.	Absent	No suitable habitat in ESL.
Grand Fir Forest -/		-/S2	Forests along the coast dominated by grand fir (Abies grandis).	Absent	No suitable habitat in ESL.
Mendocino Pyo Forest	gmy Cypress	-/S2	Forests along the coast dominated by pygmy cypress.	Absent	No suitable habitat in ESL.

Scientific Name	Common Name	Status Federal /State/ CNPS	Habitat	Habitat Present/ Absent	Rationale
Northern Coast	tal Salt Marsh	-/S3.2	Restricted to the intertidal zone of protected and shallow bays, estuaries and lagoons.	Absent	No suitable habitat in ESL.
Sphagnum Bog -		-/S2.1	Cold, highly acidic, permanently waterlogged soils.	Absent	No suitable habitat in ESL.

<sup>&</sup>lt;sup>1</sup> **Federal Status** (Federal Endangered Species Act): E = Endangered; T = Threatened; P = Proposed for listing as threatened or endangered, or for delisting; C = Candidate; D = Delisted; - = No Listing.

**State Status** (California Endangered Species Act): E = Endangered; T = Threatened; C = Candidate; D = delisted; - = No Listing. State Status (other rankings): SSC = Species of Special Concern; FP = Fully Protected; S1 = Critically Imperiled; S2 = Imperiled; S3 = Vulnerable; SH = Possibly Extirpated (Historically); Sx.1 = Very Threatened; Sx.2 = Threatened; Sx.3 = No Current Threats Known.

**California Native Plant Society** (CNPS): 1A = Presumed extinct in California; 1B = Plants rare, threatened, or endangered in California and elsewhere; 2 = Rare, threatened, or endangered in California, but more common elsewhere; x.1 = seriously endangered in California; x.2 = fairly endangered in California; x.3 = Not very endangered in California.

<sup>&</sup>lt;sup>1</sup> Includes determinations of effect for all federally listed species and designated critical habitat (CH).

#### Memorandum

Making Conservation a California Way of Life

To: Amanda Lee Date: May 18, 2022

North Region Environmental—E2 File: Fort Bragg ADA Improvements

Project

MEN-001 PMs 59.80/62.10

EA 01-0B220 / EFIS 0112000110

From: Tracy Walker Troug Wallse

Associate Environmental Planner

Associate Environmental Planner (NS) North Region Environmental–E4

SUBJECT: ADDENDUM TO THE BIOLOGICAL RESOURCES EVALUATION MEMO AND ESHA ASSESSMENT– Fort Bragg ADA Improvements Project

#### **UPDATED PROJECT DESCRIPTION**

Caltrans proposes to upgrade a section of State Route (SR) 1 to current Americans with Disabilities Act (ADA) standards from post miles (PMs) 59.80 to 62.10 in the city of Fort Bragg, Mendocino County, California. This project is included in the ADA Compliance Program of the State Highway Operation and Protection Program (SHOPP). The project limits would begin at the intersection of SR 20 and SR 1 north to Elm Street, with a gap in work along the Noyo River Bridge. This project is needed to address ADA deficiencies. This segment of SR 1 is within the city of Fort Bragg and was identified as a priority location for ADA upgrades due to its urban nature, traffic volumes, and pedestrian traffic.

There is currently one alternative for the proposed project. To bring this location of SR 1 to current ADA standards, the scope of work would entail reconstructing approximately 1,900 linear feet of sidewalk, installing approximately 2,300 linear feet of new sidewalk, constructing 36 curb ramps, installing two new retaining walls, performing associated drainage inlet and culvert work, and placing pavement markings at specified locations.

The proposed Retaining Wall #1, located at the intersection of SR 20 and SR 1 (PM 59.8) to Boatyard Drive (PM 60.0), ranges from 3'-4" to 6' maximum at its highest point near SR 20 and would reduce in height moving north. The retaining wall would be approximately 780 linear feet long x 1 foot wide with a concrete footing that would be 7 feet wide and 2 feet deep. The maximum depth of excavation is estimated to be 3 feet from the finished grade.

Proposed Retaining Wall #2 is located at the intersection of SR 1 and Spruce Street, from PMs 61.9 to PM 62.0. The proposed wall is 128 linear feet long x 4 feet high x 1 foot wide with a concrete footing that would be 4 feet wide and 2 feet deep. The maximum depth of excavation is estimated to be 3 feet from the finished grade. Cable railing would be installed on top of the retaining walls, and the face of the walls would be smooth to allow for future art installations.

This project would require Temporary Construction Easements (TCEs) for 30 properties. As of March 2022, Caltrans has obtained all 30 TCEs.

Installation of new sidewalks, driveways, and retaining walls would involve minor clearing and grubbing of soil and vegetation. No trees would be removed for this project. Staging is anticipated to utilize existing paved shoulders and developed graveled turnouts. Temporary traffic control would be used, as required for safety, consisting of portable delineators and traffic signs for a single lane closure for all phases of the project.

#### CHANGES TO THE PROJECT BASED ON UPDATED PROJECT DESCRIPTION

The updated project components described above, and shown in the current plan sets, were evaluated for new or increased impacts to biological resources within the Environmental Study Limits (ESL) and 100-foot Coastal Zone Biological Study Area (BSA) buffer and none were identified. Thus, no changes to the Biological Resources Evaluation Memo (2020a) or Environmentally Sensitive Habitat Area (ESHA) Assessment (2020b) are necessary.

Additionally, all special status species queries were updated, and although a couple changes were noted (see attachments), neither of the new species would have potential to occur within or adjacent to the project footprint. First, there is the Coastal Distinct Population Segment of the Pacific marten (*Martes caurina*) that is now federally threatened under the Endangered Species Act (ESA). This species requires late-successional coniferous forests, prefer forests with low, overhead cover and the project footprint and surrounding area does not contain this habitat. Second, there is the American glehnia (*Glehnia littoralis* ssp. *leiocarpa*), that is now part of the California Rare Plant Ranking included in the California Native Plant Society (CNPS) species list as rank 4.2. This species only inhabits coastal dune habitat, which is not present within or surrounding the project footprint.

Caltrans. (2020a). Biological Resources Evaluation Memo for the Fort Bragg ADA Improvements Project. Fort Bragg, CA. January 2020.

Caltrans. (2020b). Environmentally Sensitive Habitat Area (ESHA) Assessment for the Fort Bragg ADA Improvements Project. Fort Bragg, CA. July 2020.

#### Attachments

- USFWS IPaC species query results
- NMFS species query results
- CDFW California Natural Diversity Database (CNDDB) species query results
- California Native Plant Society (CNPS) species query results



# United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Arcata Fish And Wildlife Office 1655 Heindon Road Arcata, CA 95521-4573 Phone: (707) 822-7201 Fax: (707) 822-8411

In Reply Refer To: May 13, 2022

Project Code: 2022-0042786

Project Name: Fort Bragg ADA Improvement

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

# Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Arcata Fish And Wildlife Office 1655 Heindon Road Arcata, CA 95521-4573 (707) 822-7201

# **Project Summary**

Project Code: 2022-0042786

Event Code: None

Project Name: Fort Bragg ADA Improvement

Project Type: Government / Municipal (Non-Military) Construction

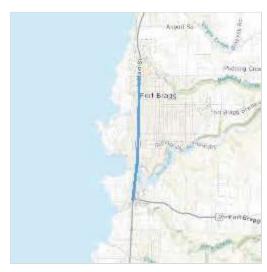
Project Description: The ADA improvements within Fort Bragg will include a retaining wall,

new sidewalks, extended curb ramps, and renovating driveways, along

with additional signage and road striping.

#### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@39.440439673091404">https://www.google.com/maps/@39.440439673091404</a>,-123.8060473554594,14z



Counties: Mendocino County, California

# **Endangered Species Act Species**

There is a total of 13 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **Mammals**

NAME

Pacific Marten, Coastal Distinct Population Segment *Martes caurina*There is prepared critical habitat for this species. The leasting of the critical habitat is a

Threatened

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

Species profile: <a href="https://ecos.fws.gov/ecp/species/9081">https://ecos.fws.gov/ecp/species/9081</a>

#### **Birds**

NAME **STATUS** Marbled Murrelet *Brachyramphus marmoratus* Threatened Population: U.S.A. (CA, OR, WA) There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4467 Northern Spotted Owl Strix occidentalis caurina Threatened There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/1123">https://ecos.fws.gov/ecp/species/1123</a> Western Snowy Plover Charadrius nivosus nivosus Threatened Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/8035 Threatened Yellow-billed Cuckoo Coccyzus americanus Population: Western U.S. DPS There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a> Reptiles NAME **STATUS** Green Sea Turtle Chelonia mydas Threatened Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199 Leatherback Sea Turtle Dermochelys coriacea Endangered There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/1493">https://ecos.fws.gov/ecp/species/1493</a> **Fishes NAME STATUS** Tidewater Goby *Eucyclogobius newberryi* Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/57

#### **Insects**

NAME

#### Behren's Silverspot Butterfly Speyeria zerene behrensii

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/900">https://ecos.fws.gov/ecp/species/900</a>

#### Lotis Blue Butterfly Lycaeides argyrognomon lotis

Endangered

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.

available.

Species profile: https://ecos.fws.gov/ecp/species/5174

### **Flowering Plants**

NAME

#### Burke's Goldfields *Lasthenia burkei*

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4338">https://ecos.fws.gov/ecp/species/4338</a>

#### Contra Costa Goldfields Lasthenia conjugens

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available.

Species profile: https://ecos.fws.gov/ecp/species/7058

#### Showy Indian Clover Trifolium amoenum

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6459">https://ecos.fws.gov/ecp/species/6459</a>

#### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

05/13/2022 1

# **Migratory Birds**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection  $Act^{2}$ .

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird <i>Selasphorus sasin</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9637">https://ecos.fws.gov/ecp/species/9637</a>	Breeds Feb 1 to Jul 15
Black Oystercatcher <i>Haematopus bachmani</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9591">https://ecos.fws.gov/ecp/species/9591</a>	Breeds Apr 15 to Oct 31
Black Turnstone <i>Arenaria melanocephala</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere

DDEEDING CEACON

NAME	BREEDING SEASON
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a>	Breeds elsewhere
Marbled Godwit <i>Limosa fedoa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9481">https://ecos.fws.gov/ecp/species/9481</a>	Breeds elsewhere
Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeds May 20 to Aug 31
Rufous Hummingbird <i>selasphorus rufus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/8002">https://ecos.fws.gov/ecp/species/8002</a>	Breeds Apr 15 to Jul 15
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a>	Breeds Jun 1 to Aug 10
Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wrentit <i>Chamaea fasciata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10

# **Probability Of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence** (■)

NIANTE

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see

below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### **Breeding Season** (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

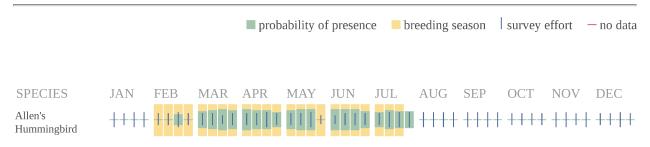
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

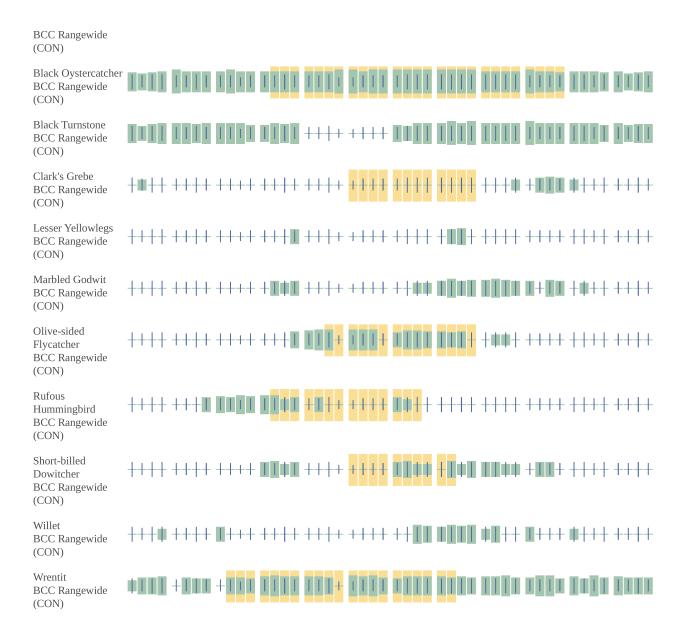
#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern <a href="https://www.fws.gov/program/migratory-birds/species">https://www.fws.gov/program/migratory-birds/species</a>
- Measures for avoiding and minimizing impacts to birds <a href="https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds">https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</a>
- Nationwide conservation measures for birds <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a>

### **Migratory Birds FAQ**

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

# What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

# What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

# How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);

- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of

certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

ESTUARINE AND MARINE DEEPWATER

• E1UBL

ESTUARINE AND MARINE WETLAND

• E2USP

05/13/2022

# **IPaC User Contact Information**

Agency: California Department of Transportation District 1

Name: Tracy Walker Address: 1656 Union St

City: Eureka State: CA Zip: 95001

Email tracy.walker@dot.ca.gov

Phone: 7078156503

From: NMFS SpeciesList - NOAA Service Account

To: Walker, Tracy@DOT

Subject: Federal ESA - - NOAA Fisheries Species List Re: Request for Official Resource List for Caltrans Ft Bragg ADA

Project in Fort Bragg EA 01-0B220

**Date:** Friday, May 13, 2022 3:12:20 PM

#### **EXTERNAL EMAIL.** Links/attachments may not be safe.

Please retain a copy of each email request that you send to NOAA at <a href="mailto:nmfs.wcrca.specieslist@noaa.gov">nmfs.wcrca.specieslist@noaa.gov</a> as proof of your official Endangered Species Act SPECIES LIST. The email you send to NOAA should include the following information: your first and last name; email address; phone number; federal agency name (or delegated state agency such as Caltrans); mailing address; project title; brief description of the project; and a copy of a list of threatened or endangered species identified within specified geographic areas derived from the NOAA Fisheries, West Coast Region, California Species List Tool. You may only receive this instruction once per week. If you have questions, contact your local NOAA Fisheries liaison.

Quad Name Fort Bragg
Quad Number 39123-D7

#### **ESA Anadromous Fish**

Eulachon (T) -

sDPS Green Sturgeon (T) -

SONCC Coho ESU (T) CCC Coho ESU (E) 
CC Chinook Salmon ESU (T) 
CVSR Chinook Salmon ESU (T) 
SRWR Chinook Salmon ESU (E) 
NC Steelhead DPS (T) 
CCC Steelhead DPS (T) 
SCCC Steelhead DPS (T) 
SC Steelhead DPS (E) 
CCV Steelhead DPS (T) -

### **ESA Anadromous Fish Critical Habitat**

X

SONCC Coho Critical Habitat CCC Coho Critical Habitat CC Chinook Salmon Critical Habitat CVSR Chinook Salmon Critical Habitat SRWR Chinook Salmon Critical Habitat NC Steelhead Critical Habitat CCC Steelhead Critical Habitat SCCC Steelhead Critical Habitat SC Steelhead Critical Habitat CCV Steelhead Critical Habitat CCV Steelhead Critical Habitat Eulachon Critical Habitat SDPS Green Sturgeon Critical Habitat -

# **ESA Marine Invertebrates**

Range Black Abalone (E) - Range White Abalone (E) -

#### **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat -

#### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - X
Olive Ridley Sea Turtle (T/E) - X
Leatherback Sea Turtle (E) - X
North Pacific Loggerhead Sea Turtle (E) -

#### **ESA Whales**

Blue Whale (E) 
Fin Whale (E) 
Humpback Whale (E) 
Southern Resident Killer Whale (E) 
North Pacific Right Whale (E) 
Sei Whale (E) 
X

Sperm Whale (E) -

# **ESA Pinnipeds**

Guadalupe Fur Seal (T) - X
Steller Sea Lion Critical Habitat -

# **Essential Fish Habitat**

Coho EFH - X
Chinook Salmon EFH - X
Groundfish EFH - X
Coastal Pelagics EFH - X
Highly Migratory Species EFH - X

# MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds
See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans - X
MMPA Pinnipeds - X



# California Department of Fish and Wildlife California Natural Diversity Database



**Query Criteria:** 

Quad<span style='color:Red'> IS </span>(Fort Bragg (3912347)<span style='color:Red'> OR </span>Mendocino (3912337)<span style='color:Red'> OR </span>Noyo Hill (3912346)<span style='color:Red'> OR </span>Dutchmans Knoll (3912356)<span style='color:Red'> OR </span>Mathison Peak (3912336)<span style='color:Red'> OR </span>Inglenook (3912357))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
alpine marsh violet	PDVIO041G0	None	None	G5	S1S2	2B.2
Viola palustris						
angel's hair lichen	NLLEC3S340	None	None	G5?	S2S3	2B.1
Ramalina thrausta						
ashy storm-petrel	ABNDC04030	None	None	G2	S2	SSC
Hydrobates homochroa						
Baker's goldfields	PDAST5L0C4	None	None	G3T1	S1	1B.2
Lasthenia californica ssp. bakeri						
Behren's silverspot butterfly	IILEPJ6088	Endangered	None	G5T1	S1	
Speyeria zerene behrensii						
Blasdale's bent grass	PMPOA04060	None	None	G2	S2	1B.2
Agrostis blasdalei						
bluff wallflower	PDBRA160E3	None	None	G3	S2	1B.2
Erysimum concinnum						
Bolander's beach pine	PGPIN04081	None	None	G5T2	S2	1B.2
Pinus contorta ssp. bolanderi						
bunchberry	PDCOR010F0	None	None	G5	S2	2B.2
Cornus unalaschkensis						
California sedge	PMCYP032D0	None	None	G5	S2	2B.2
Carex californica						
coast lily	PMLIL1A0C0	None	None	G2	S2	1B.1
Lilium maritimum						
Coastal and Valley Freshwater Marsh  Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
coastal bluff morning-glory	PDCON040D2	None	None	G4T2T3	S2S3	1B.2
Calystegia purpurata ssp. saxicola						
Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
Coastal Brackish Marsh						
coastal triquetrella	NBMUS7S010	None	None	G2	S2	1B.2
Triquetrella californica						
coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G5T2Q	S2	
Oncorhynchus kisutch pop. 4						
congested-headed hayfield tarplant	PDAST4R065	None	None	G5T2	S2	1B.2
Hemizonia congesta ssp. congesta						
dark-eyed gilia	PDPLM04130	None	None	G2	S2	1B.2
Gilia millefoliata						
deceiving sedge	PMCYP03BY0	None	None	G2	S2	1B.2
Carex saliniformis						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
dwarf alkali grass	PMPOA531L0	None	None	G4?	SH	2B.2
Puccinellia pumila						
Fen	CTT51200CA	None	None	G2	S1.2	
Fen						
foothill yellow-legged frog Rana boylii	AAABH01050	None	Endangered	G3	S3	SSC
globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
Coelus globosus						
Grand Fir Forest	CTT82120CA	None	None	G1	S1.1	
Grand Fir Forest						
great blue heron	ABNGA04010	None	None	G5	S4	
Ardea herodias						
great burnet	PDROS1L060	None	None	G5?	S2	2B.2
Sanguisorba officinalis						
green yellow sedge	PMCYP03EM5	None	None	G5T5	S2	2B.3
Carex viridula ssp. viridula						
hair-leaved rush	PMJUN012R0	None	None	G5	S1	2B.2
Juncus supiniformis						
hoary bat	AMACC05030	None	None	G3G4	S4	
Lasiurus cinereus						
Howell's spineflower	PDPGN040C0	Endangered	Threatened	G1	S1	1B.2
Chorizanthe howellii						
Humboldt Bay owl's-clover  Castilleja ambigua var. humboldtiensis	PDSCR0D402	None	None	G4T2	S2	1B.2
Humboldt County milk-vetch	PDFAB0F080	None	Endangered	G2	S2	1B.1
Astragalus agnicidus						
lagoon sedge	PMCYP037A7	None	None	G5T5	S1	2B.2
Carex lenticularis var. limnophila						
leafy-stemmed mitrewort	PDSAX0N020	None	None	G5	S4	4.2
Mitellastra caulescens						
livid sedge	PMCYP037L0	None	None	G5	SH	2A
Carex livida						
lotis blue butterfly Plebejus anna lotis	IILEPG5013	Endangered	None	G4TH	SH	
	DMOV/D007\/0	Mana	Nissa	0.5	00	00.0
Lyngbye's sedge Carex lyngbyei	PMCYP037Y0	None	None	G5	S3	2B.2
maple-leaved checkerbloom Sidalcea malachroides	PDMAL110E0	None	None	G3	S3	4.2
marbled murrelet	ABNNN06010	Threatened	Endangered	G3	S2	
Brachyramphus marmoratus			-			
marsh pea	PDFAB250P0	None	None	G5	S2	2B.2
Lathyrus palustris						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Mendocino Coast paintbrush	PDSCR0D3N0	None	None	G2	S2	1B.2
Castilleja mendocinensis						
Mendocino dodder	PDCUS011A2	None	None	G5T1	S1	1B.2
Cuscuta pacifica var. papillata						
Mendocino leptonetid spider  Calileptoneta wapiti	ILARAU6040	None	None	G1	S1	
Mendocino Pygmy Cypress Forest  Mendocino Pygmy Cypress Forest	CTT83161CA	None	None	G2	S2.1	
Menzies' wallflower	PDBRA160R0	Endangered	Endangered	G1	S1	1B.1
Erysimum menziesii						
Methuselah's beard lichen	NLLEC5P420	None	None	G4	S4	4.2
Usnea longissima						
Monterey clover  Trifolium trichocalyx	PDFAB402J0	Endangered	Endangered	G1	S1	1B.1
North American porcupine  Erethizon dorsatum	AMAFJ01010	None	None	G5	S3	
North Coast phacelia  Phacelia insularis var. continentis	PDHYD0C2B1	None	None	G2T2	S2	1B.2
Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
Northern Coastal Salt Marsh						
northern goshawk  Accipiter gentilis	ABNKC12060	None	None	G5	S3	SSC
northern microseris  Microseris borealis	PDAST6E030	None	None	G5	S1	2B.1
northern red-legged frog	AAABH01021	None	None	G4	S3	SSC
Rana aurora				0000	0.400	
obscure bumble bee  Bombus caliginosus	IIHYM24380	None	None	G2G3	S1S2	
Oregon coast paintbrush  Castilleja litoralis	PDSCR0D012	None	None	G3	S3	2B.2
Oregon goldthread  Coptis laciniata	PDRAN0A020	None	None	G4?	S3?	4.2
osprey	ABNKC01010	None	None	G5	S4	WL
Pandion haliaetus						
Pacific gilia Gilia capitata ssp. pacifica	PDPLM040B6	None	None	G5T3	S2	1B.2
Pacific lamprey  Entosphenus tridentatus	AFBAA02100	None	None	G4	S3	SSC
Pacific tailed frog	AAABA01010	None	None	G4	S3S4	SSC
Ascaphus truei						
perennial goldfields	PDAST5L0C5	None	None	G3T2	S2	1B.2



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
pink sand-verbena	PDNYC010N4	None	None	G4G5T2	S2	1B.1
Abronia umbellata var. breviflora						
Point Reyes blennosperma	PDAST1A022	None	Rare	G4T2	S2	1B.2
Blennosperma nanum var. robustum						
Point Reyes horkelia	PDROS0W0B0	None	None	G2	S2	1B.2
Horkelia marinensis						
purple martin	ABPAU01010	None	None	G5	S3	SSC
Progne subis						
purple-stemmed checkerbloom	PDMAL110FL	None	None	G5T1	S1	1B.2
Sidalcea malviflora ssp. purpurea						
pygmy cypress	PGCUP04032	None	None	G1	S1	1B.2
Hesperocyparis pygmaea						
pygmy manzanita	PDERI04280	None	None	G3?T1	S1	1B.2
Arctostaphylos nummularia ssp. mendocinoensis						
red-bellied newt	AAAAF02020	None	None	G2	S2	SSC
Taricha rivularis						
round-headed Chinese-houses	PDSCR0H060	None	None	G1	S1	1B.2
Collinsia corymbosa						
running-pine	PPLYC01080	None	None	G5	S3	4.1
Lycopodium clavatum						
seacoast ragwort	PDAST8H0H1	None	None	G4T4	S2S3	2B.2
Packera bolanderi var. bolanderi						
short-leaved evax	PDASTE5011	None	None	G4T3	S3	1B.2
Hesperevax sparsiflora var. brevifolia						
Sonoma tree vole	AMAFF23030	None	None	G3	S3	SSC
Arborimus pomo						
southern torrent salamander	AAAAJ01020	None	None	G3G4	S2S3	SSC
Rhyacotriton variegatus						
Sphagnum Bog	CTT51110CA	None	None	G3	S1.2	
Sphagnum Bog						
steelhead - northern California DPS	AFCHA0209Q	Threatened	None	G5T2T3Q	S2S3	
Oncorhynchus mykiss irideus pop. 16						
supple daisy	PDAST3M3Z0	None	None	G2	S2	1B.2
Erigeron supplex						
swamp harebell	PDCAM02060	None	None	G3	S3	1B.2
Campanula californica						
Ten Mile shoulderband	IMGASC5070	None	None	G2	S2	
Noyo intersessa						
Thurber's reed grass	PMPOA17070	None	None	G3Q	S2	2B.1
Calamagrostis crassiglumis						
tidewater goby	AFCQN04010	Endangered	None	G3	S3	
Eucyclogobius newberryi						



# California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
Corynorhinus townsendii						
tufted puffin	ABNNN12010	None	None	G5	S1S2	SSC
Fratercula cirrhata						
western bumble bee	IIHYM24250	None	None	G2G3	S1	
Bombus occidentalis						
western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Emys marmorata						
western snowy plover	ABNNB03031	Threatened	None	G3T3	S2	SSC
Charadrius nivosus nivosus						
white beaked-rush	PMCYP0N010	None	None	G5	S2	2B.2
Rhynchospora alba						
white-flowered rein orchid	PMORC1X050	None	None	G3	S3	1B.2
Piperia candida						
Whitney's farewell-to-spring	PDONA05025	None	None	G5T1	S1	1B.1
Clarkia amoena ssp. whitneyi						
Wolf's evening-primrose Oenothera wolfii	PDONA0C1K0	None	None	G2	S1	1B.1

**Record Count: 91** 

#### **CNPS Rare Plant Inventory**



#### **Search Results**

48 matches found. Click on scientific name for details

Search Criteria: <u>9-Quad</u> include [**3912347**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK		CA RARE PLANT RANK	РНОТО
Abronia umbellata var. breviflora	pink sand- verbena	Nyctaginaceae	annual herb	Jun-Oct	None	None	G4G5T2	S2	1B.1	©2021 Sco
Agrostis blasdalei	Blasdale's bent grass	Poaceae	perennial rhizomatous herb	May-Jul	None	None	G2	S2	1B.2	© 2001
Angelica lucida	sea-watch	Apiaceae	perennial herb	Apr-Sep	None	None	G5	\$3	4.2	Smith
										© 2022 Stillwater Sciences
Arctostaphylos nummularia ssp. mendocinoensis	pygmy manzanita	Ericaceae	perennial evergreen shrub	Jan	None	None	G3?T1	S1	1B.2	No Photo
Blennosperma nanum var. robustum	Point Reyes blennosperma	Asteraceae	annual herb	Feb-Apr	None	CR	G4T2	S2	1B.2	No Photo Available
Calamagrostis polanderi	Bolander's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	None	None	G4	S4	4.2	©2009 Zoy
Calystegia purpurata ssp. paxicola	coastal bluff morning-glory	Convolvulaceae	perennial herb	(Mar)Apr- Sep	None	None	G4T2T3	S2S3	1B.2	No Photo
Campanula ralifornica	swamp harebell	Campanulaceae	perennial rhizomatous herb	Jun-Oct	None	None	G3	S3	1B.2	No Photo Available
Carex californica	California sedge	Cyperaceae	perennial rhizomatous herb	May-Aug	None	None	G5	S2	2B.2	No Photo

Carex saliniformis	deceiving sedge	Cyperaceae	perennial rhizomatous herb	Jun(Jul)	None	None	G2	S2	1B.2	©2003 Steve Matson
<u>Castilleja ambigua</u> <u>var. ambigua</u>	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	None	None	G4T4	S3S4	4.2	©2011 Dylan Neubauer
<u>Castilleja litoralis</u>	Oregon coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Jun	None	None	G3	<b>S</b> 3	2B.2	©2010 Dana York
<u>Castilleja</u> mendocinensis	Mendocino Coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Apr-Aug	None	None	G2	S2	1B.2	©2015 John Doyen
<u>Ceanothus</u> <u>gloriosus var.</u> <u>exaltatus</u>	glory brush	Rhamnaceae	perennial evergreen shrub	Mar- Jun(Aug)	None	None	G4T4	S4	4.3	©2018 John Doyen
<u>Ceanothus</u> <u>gloriosus var.</u> <u>gloriosus</u>	Point Reyes ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	None	None	G4T4	S4	4.3	No Photo Available
<u>Chorizanthe</u> <u>howellii</u>	Howell's spineflower	Polygonaceae	annual herb	May-Jul	FE	СТ	G1	S1	1B.2	No Photo Available
Chrysosplenium glechomifolium	Pacific golden saxifrage	Saxifragaceae	perennial herb	Feb-Jun	None	None	G5?	S3	4.3	© 2021 Scot Loring
<u>Clarkia amoena</u> <u>ssp. whitneyi</u>	Whitney's farewell-to- spring	Onagraceae	annual herb	Jun-Aug	None	None	G5T1	S1	1B.1	No Photo Available
<u>Collinsia</u> <u>corymbosa</u>	round-headed Chinese- houses	Plantaginaceae	annual herb	Apr-Jun	None	None	G1	S1	1B.2	©2007 Steve

Matson

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<u>Cornus</u> <u>unalaschkensis</u>	bunchberry	Cornaceae	perennial rhizomatous herb	May-Jul	None	None	G5	S2	2B.2	© 2021 Scot Loring
<u>Cuscuta pacifica</u> var. papillata	Mendocino dodder	Convolvulaceae	annual vine (parasitic)	(Jun)Jul-Oct	None	None	G5T1	S1	1B.2	No Photo Available
<u>Erysimum</u> <u>concinnum</u>	bluff wallflower	Brassicaceae	annual/perennial herb	Feb-Jul	None	None	G3	S2	1B.2	©2020 John Doyen
<u>Erysimum menziesii</u>	Menzies' wallflower	Brassicaceae	perennial herb	Mar-Sep	FE	CE	G1	S1	1B.1	©2007 Steve Matson
<u>Gilia capitata ssp.</u> pacifica	Pacific gilia	Polemoniaceae	annual herb	Apr-Aug	None	None	G5T3	S2	1B.2	© 2016 Steve Matson
<u>Gilia millefoliata</u>	dark-eyed gilia	Polemoniaceae	annual herb	Apr-Jul	None	None	G2	S2	1B.2	© 2017 John Doyen
Glehnia littoralis ssp. leiocarpa	American glehnia	Apiaceae	perennial herb	May-Aug	None	None	G5T5	S2S3	4.2	©2017 Steve Matson
<u>Hesperevax</u> sparsiflora var. brevifolia	short-leaved evax	Asteraceae	annual herb	Mar-Jun	None	None	G4T3	\$3	1B.2	© 2006 Doreen L. Smith
<u>Hesperocyparis</u> <u>pygmaea</u>	pygmy cypress	Cupressaceae	perennial evergreen tree		None	None	G1	S1	1B.2	© 2009 Neal Kramer
<u>Horkelia marinensis</u>	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	None	None	G2	S2	1B.2	© 2017 John Doyen
<u>Hosackia gracilis</u>	harlequin lotus	Fabaceae	perennial rhizomatous herb	Mar-Jul	None	None	G3G4	<b>S</b> 3	4.2	



										Doyen
Juncus supiniformis	hair-leaved rush	Juncaceae	perennial rhizomatous herb	Apr- May(Jun- Jul)	None	None	G5	S1	2B.2	© 2013 Asa Spade
<u>Lasthenia</u> <u>californica ssp.</u> <u>bakeri</u>	Baker's goldfields	Asteraceae	perennial herb	Apr-Oct	None	None	G3T1	S1	1B.2	©2015 Asa Spade
<u>Lasthenia</u> <u>californica ssp.</u> <u>macrantha</u>	perennial goldfields	Asteraceae	perennial herb	Jan-Nov	None	None	G3T2	S2	1B.2	© 2013 John Doyen
<u>Lilium maritimum</u>	coast lily	Liliaceae	perennial bulbiferous herb	May-Aug	None	None	G2	S2	1B.1	© 2020 Aaron Schusteff
<u>Mitellastra</u> <u>caulescens</u>	leafy-stemmed mitrewort	Saxifragaceae	perennial rhizomatous herb	(Mar)Apr- Oct	None	None	G5	S4	4.2	© 2014 Dana York
<u>Packera bolanderi</u> <u>var. bolanderi</u>	seacoast ragwort	Asteraceae	perennial rhizomatous herb	(Jan- Apr)May- Jul(Aug)	None	None	G4T4	S2S3	2B.2	© 2021 Scot Loring
Phacelia insularis var. continentis	North Coast phacelia	Hydrophyllaceae	annual herb	Mar-May	None	None	G2T2	S2	1B.2	No Photo Available
Pinus contorta ssp. bolanderi	Bolander's beach pine	Pinaceae	perennial evergreen tree		None	None	G5T2	<b>S</b> 2	1B.2	No Photo Available
<u>Pleuropogon</u> <u>refractus</u>	nodding semaphore grass	Poaceae	perennial rhizomatous herb	(Mar)Apr- Aug	None	None	G4	S4	4.2	©2004 Dean Wm. Taylor
Puccinellia pumila	dwarf alkali grass	Poaceae	perennial herb	Jul	None	None	G4?	SH	2B.2	No Photo Available

Ramalina thraustal lichen       angel's hair lichen       Ramalinaceae (epiphytic)       fruticose lichen (epiphytic)       None None None G57       S253       28.1       Justice 2013 Scott Loring         Rhynchospara alba (harding)       white beaked rush       Cyperaceae rush       perennial phrizomatous herb       Jun-Aug       None None None G5       S2       28.2       <											
Sanguisorba officinalis  Sanguisorba officinalis  Sanguisorba officinalis  Rosaceae perennial rhizomatous herb rhizomatous herb perennial rhizomatous herb rhizomatous herb perennial rhizomatous herb perennial rhizomatous herb perennial rhizomatous herb rhizomatous herb perennial rhizomatous herb perennial rhizomatous herb rhizomatous herb perennial rhizomatous herb pere	<u>Ramalina thrausta</u>		Ramalinaceae			None	None	G5?	S2S3	2B.1	
sidalcea malviflora checkerbloom september of thizomatous herb with the september of the se	Rhynchospora alba		Cyperaceae	·	Jun-Aug	None	None	G5	\$2	2B.2	
malachroides     checkerbloom     Aug       Sidalcea malviflora sp. purple-sp. purpurea     Malvaceae stemmed checkerbloom     perennial rhizomatous herb rhizomatous herb     May-Jun None None None STI STI STI B.2     SI B.2       Triquetrella coastal californica     Pottiaceae moss     None None None STI		great burnet	Rosaceae		Jul-Oct	None	None	G5?	\$2	2B.2	Amadej
stemmed checkerbloom  Triquetrella coastal triquetrella  Veratrum fimbriatum  Alpine marsh violet  Triguetrella  Stemmed checkerbloom  Triguetrella  Triguetrella  Triquetrella  Triquet			Malvaceae	perennial herb		None	None	G3	\$3	4.2	
Californica     triquetrella       Veratrum fimbriatum     fringed false-hellebore     Melanthiaceae hellebore     perennial herb perennial herb hellebore     Jul-Sep None None G3     S3     4.3       Viola palustris     alpine marsh violet     Violaceae rhizomatous herb     perennial rhizomatous herb     Mar-Aug None None G5     S1S2     2B.2		stemmed	Malvaceae		May-Jun	None	None	G5T1	S1	1B.2	
hellebore  Wiola palustris  alpine marsh violaceae perennial Mar-Aug None None G5 S1S2 2B.2  rhizomatous herb  No Photo Available			Pottiaceae	moss		None	None	G2	S2	1B.2	
violet rhizomatous herb  ©2021 Scot		_	Melanthiaceae	perennial herb	Jul-Sep	None	None	G3	S3	4.3	
	<u>Viola palustris</u>		Violaceae	•	Mar-Aug	None	None	<b>G</b> 5	S1S2	2B.2	

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