

Coastal Biological Resource Evaluation

Prepared for:
Christina Pyle
153 & 161 Cove View Drive,
Shelter Cove, CA 95589
APN 111-211-010 & 111-211-011

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Prepared by:
Evan A Henricksen
Biologist
ehenricksen@timberlandresource.com



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

1.0 Introduction

The report presents the results of a Biological Resource Evaluation [BRE] performed on APNs 111-221-010 & 111-211-011 in Shelter Cove, California. The purpose of the BRE is to evaluate the presence of biological resources that may merit protections from potential impacts associated with proposed project actions. These resources may include special status plants or wildlife and their associated potential habitats. The Project Parcels do not include any natural plant communities and do not contain any special status plants. The proposed project will not impact special status wildlife.

Project Location

The proposed project occurs within APNs 111-221-010 & 111-211-011 [Project Parcels] and is located at 153 & 161 Cove View Drive, Shelter Cove, CA 95589. The Project Parcels are located on the Shelter Cove 7.5' USGS quadrangle within Section 15, T5S, R1E, HB&M. A General Location Map has been included with this report as Attachment-1.

Project Description

The Project Parcel is located within the Shelter Cove Subdivision. This subdivision began proceedings to split and develop ranch lands into residential parcels in 1966. The subdivision was designed to host approximately 4,200 parcels to be developed. The Project Parcels are currently vacant with no existing improvements.

The project proposes constructing a new two-bedroom residence on the Project Parcels. The footprint of the residence will occupy 1,650-square feet. A small 400-square foot driveway will be constructed in front of the garage. In total, 2,050-square feet of the parcels will be developed. The proposed construction will grade and develop approximately 14.42% of the Project Parcels.

Statement of Qualifications

This report has been prepared by Environmental Scientist and Biologist Evan Henricksen. Mr. Henricksen possesses a Bachelor of Science from California Polytechnic University Humboldt in Biology with a Marine emphasis. Mr. Henricksen has eight and a half years of experience performing surveys and assessments for threatened and endangered marine, aquatic, and terrestrial species as well as their associated habitat. He has been implementing tree and plant assessments for five and a half years as well as nesting bird surveys. He has been conducting watershed assessments as well as drafting and implementing associated permits for mitigation/remediation for three and a half years.

2.0 Regulatory Background

California Coastal Commission – California Coastal Act

Section 30600(a) of the California Coastal Act [CCA] requires any person proposing development in the coastal zone to obtain a Coastal Development Permit [CDP] from the California Coastal Commission [CCC]. Development is defined under CCA Section 30106 to include “construction, reconstruction, demolition, or alteration of the size of any structure...” Humboldt County has a certified Local Coastal Plan [LCP], allowing the county to act as the lead agency in issuing CDPs. The CCC has retained sole jurisdiction over a portion of the coastal zone in Humboldt County. The Project Parcel overlaps with the boundary between CCC and Humboldt County jurisdiction. The CDP framework is, by statute, equivalent to the environmental review associated with the California Environmental Quality Act [CEQA].

This report focuses solely on ecological resources protected in Chapter 3 and 4 of the CCA. Chapter 3 specifies the protection of marine resources, biological productivity, water quality, and wetlands. Chapter 4 is directed at terrestrial ecological resources such as agricultural land and timberland management.

Environmentally Sensitive Habitat Areas

The CCA provides protections for Environmentally Sensitive Habitat Areas [ESHA] as defined in Section 30107.5. This term refers to 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. Identified ESHAs in the Humboldt Bay LCP include but are not limited to:

- Wetlands and estuaries, including Humboldt Bay
- Vegetated dunes along the North Spit to the Mad River and along the South Spit
- Rivers, creeks, gulches, sloughs, and associated riparian habitats
- Critical habitats for rare and endangered species

Sensitive Natural Communities have been defined by CDFW and the California Native Plant Society [CNPS] as vegetation types with a state rank of S1-S3 per standards outlined in the NatureServe Heritage Methodology. This list of sensitive natural communities is equivalent to those identified as ESHA and will be treated as such. This system uses the best and most recent scientific information to assess rarity per a community's range, distribution, and proportion of occurrences that are of good ecological integrity. Threats and trends are also considered in the overall ranking of a community's rarity. The use of marsh and/or wetlands in the names of vegetation alliances does not imply or assert regulatory jurisdiction. Although there are no specific protocols for avoiding and/or mitigating impacts to these communities, they are afforded consideration during environmental review per CEQA Guidelines checklist IVb.

Special Status Species

Sensitive and protected species include those taxa that have been formally listed or are candidates for either listing under the Federal Endangered Species Act [ESA] or California Endangered Species Act [CESA]. These acts afford legal protection to both listed species and species that are candidates for listing. Additionally, CEQA affords special consideration to species ranked as sensitive (S1-3 are considered sensitive), as a CDFW Species of Special Concern, or CDFW Fully Protected. In addition to regulations for special-status species, most birds in the United States, including non-status species, are protected by the Migratory Bird Treaty Act [MBTA] of 1918. Under this legislation, destroying active nests, eggs, and young is illegal.

Wildlife and plant taxa are ranked per standards outlined in the NatureServe Heritage Methodology. All species are given two ranks that consist of a letter and a number. The letter represents whether the rank is a global rank [G] or a state rank [S]. The number corresponds to the subject's rarity. This report only assesses the state rank of taxa.

1 Critically Imperiled. At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors

2 Imperiled. At risk because of rarity due to the very restricted range, very few populations, (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province

3 Vulnerable. At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent widespread declines, or other factors

4 Apparently Secure. Uncommon but not rare; some cause for long-term concern due to declines or other factors

5 Secure – Common; widespread and abundant

Subspecies receive a T-rank attached to the G-rank and an additional S-rank for state ranking. With subspecies, the initial rank reflects the entire species' risk while the second rank represents just the subspecies' status.

Plant species have an additional ranking system designed by the CNPS. The following alphanumeric codes are the CNPS List, California Rare Plant Ranks [CRPR]:

1A – Presumed extirpated in California and either rare or extinct elsewhere

1B – Rare or Endangered in California and elsewhere

2A – Presumed extirpated in California, but more common elsewhere

- 2B – Rare or endangered in California, but more common elsewhere
- 3 – Plants for which more information is needed – Review List
- 4 – Plants of limited distribution – Watch List

The CRPR use a decimal-style threat rank. The threat rank is an extension added onto the CRPR and designates the level of threats by a 1 to 3 ranking, with 1 being the most threatened and 3 being the least threatened. Most CRPRs read as 1B.1, 1B.2, 1B.3, etc. Note that some Rank 3 plants do not have a threat code extension due to difficulty in ascertaining threats. Rank 1A and 2A plants also do not have threat code extensions since there are no known extant populations in California. Threat Code extensions and their meanings are as follows:

- 1) Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- 2) Moderately threatened in California (20-80% of occurrences threatened / moderate degree and of threat)
- 3) Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

3.0 Methods

Field Observations

All field data was collected by Environmental Scientist and Biologist Evan Henricksen using direct observations, measurements, and ocular estimations during a site review conducted on April 9th, 2025. A 200' Lufkin FE200 HI-VIZ measuring tape and Forestry Pro (Nikon Laser Range Finder) were used for recording distances to the nearest tenth of a foot. Slope percent was measured using a Suunto PM-5/360 PC Clinometer to the nearest degree. The reach of the field observations covered the Project Parcels and parcels directly adjacent.

Review of Scientific Literature

Scientific literature and data have been sourced from multiple locations. The majority of reference material has been sourced from online journal archives and databases. Some species data is sourced from agency factsheets such as the U.S. Department of Agriculture [USDA], U.S. Geological Survey [USGS], U.S. Fish and Wildlife Service [USFWS], and the California Department of Fish and Wildlife [CDFW].

4.0 Results

Environmentally Sensitive Habitat Areas

The Project Parcels consist of grassland and Douglas fir habitat within the parcel boundaries. Nonnative annual grasses dominate a large clearing located within the Project Parcels. The grassland habitat is surrounded by Douglas-fir habitat to the east, south, and west within the parcel boundaries. The parcels are best characterized as Annual Grassland and Douglas Fir habitat per the California Wildlife Habitat Relationship System [CWHRS]. The grassland habitat type is dominated by sweet vernal grass (*Anthoxanthum odoratum*), quaking grass (*Briza spp.*), and wild oats (*Avena spp.*). The nearest watercourse is approximately 1,300-feet east of the nearest parcel boundary. The Project Parcels contain no streams, wetlands, or other wet areas which require protection per Humboldt County's Streamside Management Areas and Wetland Ordinance (Humboldt County Code §314-61). The project as proposed, will not impact any ESHA as none occur on the Project Parcel or within 100 feet of the proposed construction area.

Special Status Plants

Although the Project Parcels occur within an existing subdivision, they have yet to be developed and thus host low-quality potential habitat for some special status plants. The Project Parcels, in terms of potential plant habitat, may best be characterized as Annual Grassland and Douglas fir Forest habitat. The dominance of nonnatives and proximity to roads degrades potential habitat quality. The Project Parcels host potential habitat for leafy reed grass (*Calamagrostis foliosa*), Mendocino Coast paintbrush (*Castilleja mendocinensis*), Whitney's farewell-to-spring (*Clarkia amoena ssp. whitneyi*), Oregon goldthread (*Coptis laciniata*), Pacific gilia (*Gilia capitata ssp. pacifica*), harlequin lotus (*Hosackia*

gracilis), perennial goldfields (*Lasthenia californica ssp. macrantha*), marsh pea (*Lathyrus palustris*), Howell's montia (*Montia howelli*), maple-leaved checkerbloom (*Sidalcea malachroides*) and Siskiyou checkerbloom (*Sidalcea malviflora ssp. patula*). See Attachment 3 for a list of special status plants assessed as part of the CNPS query. No special status plants were observed within the Project Parcels; a list of observed plant species is included in Attachment 4. The project, as proposed, will not impact special status plants as none occur within the Project Parcels.

Special Status Wildlife

The proposed project occurs in an existing subdivision that provides marginal potential habitat for wildlife, given the amount of anthropogenic activity that occurs in the vicinity. See Attachment 5 for the list of wildlife assessed as part of the 9-quad search. The Project Parcels do not contain any key habitat for any special status vertebrate species. The Project Parcels do provide potential habitat for special status bumble bees due to the dominance of herbaceous vegetation, although the quality of this potential habitat is significantly degraded due to the dominance of nonnative grasses and the regular lawn mowing that occurs on the parcel. No bumble bee nests were observed during the site visit. The development of the Project Parcels will not remove significant amounts of potential habitat from this species range. The surrounding vegetated parcels provide potential habitat for special status bumble bees. Additionally, the planting of native flowering plants as landscaping may enhance the potential habitat relative to current conditions. Given these conditions, the project will not impact potentially present special status bumble bees.

The Project Parcels also provide marginal potential nesting habitat for migratory birds. Trees present within the Project Parcel provide potential nesting habitat, although no nests were found during the site visit. It is recommended that if vegetation removal occurs during nesting season (March 1 – August 31), then nesting bird surveys shall be conducted no more than 7 days prior to initiation of activities. If this mitigation is enacted, the project will not impact nesting migratory birds.

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Attachment 1

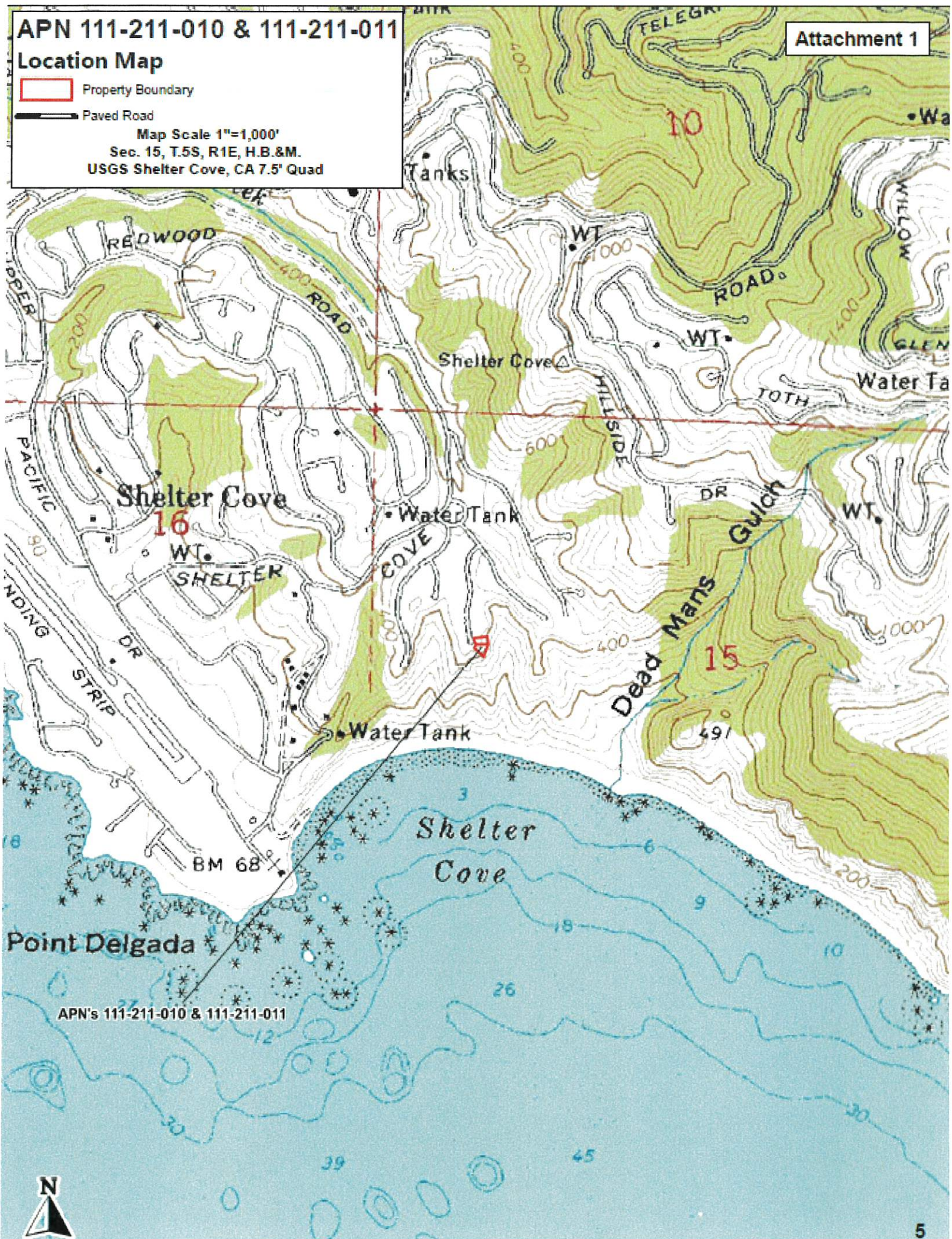
Location Map

-  Property Boundary
-  Paved Road

Map Scale 1"=1,000'

Sec. 15, T.5S, R.1E, H.B.&M.


USGS Shelter Cove, CA 7.5' Quad

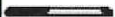


APN's 111-211-010 & 111-211-011

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2022 DOQ Site Map

Attachment 2

 Property Boundary

 Paved Road

Map Scale 1"=100'

Sec. 15, T.5S, R.1E, H.B.&M.

USGS Shelter Cove, CA 7.5' Quad

Cove Court

Cove Point East

Cove View Drive



Attachment 3 – Special Status Plants List (Shelter Cove 9-Quad Search)

Scientific Name	Common Name	ESA	CESA	State Rank	CRPR	Bloom Period	Habitat	Potential Habitat Present?
<i>Antennaria suffrutescens</i>	evergreen everlasting	None	None	S3	4.3	Jan-Jul	Lower montane coniferous forest	No
<i>Calamagrostis foliosa</i>	leafy reed grass	None	Rare	S3	4.2	May-Sep	Coastal bluff scrub, North Coast coniferous forest	Yes
<i>Castilleja litoralis</i>	Oregon coast paintbrush	None	None	S3	2B.2	Jun	Coastal bluff scrub, Coastal dunes, Coastal scrub	No
<i>Castilleja mendocinensis</i>	Mendocino Coast paintbrush	None	None	S2	1B.2	Apr-Aug	Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub	Yes
<i>Clarkia amoena ssp. whitneyi</i>	Whitney's farewell-to-spring	None	None	S1	1B.1	Jun-Aug	Coastal bluff scrub, Coastal scrub	Yes
<i>Coptis laciniata</i>	Oregon goldthread	None	None	S3?	4.2	(Feb)Mar-May(Sep-Nov)	Meadows and seeps, North Coast coniferous forest	Yes
<i>Erythronium oregonum</i>	giant fawn lily	None	None	S2	2B.2	Mar-Jun(Jul)	Cismontane woodland, Meadows and seeps	No
<i>Erythronium revolutum</i>	coast fawn lily	None	None	S3	2B.2	Mar-Jul(Aug)	Bogs and fens, Broadleafed upland forest, North Coast coniferous forest	No
<i>Gilia capitata ssp. pacifica</i>	Pacific gilia	None	None	S3	1B.2	Apr-Aug	Chaparral, Coastal bluff scrub, Coastal prairie, Valley and foothill grassland	Yes
<i>Hosackia gracilis</i>	harlequin lotus	None	None	S3	4.2	Mar-Jul	Broadleafed upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland	Yes
<i>Lasthenia californica ssp. macrantha</i>	perennial goldfields	None	None	S2	1B.2	Jan-Nov	Coastal bluff scrub, Coastal dunes, Coastal scrub	Yes
<i>Lathyrus palustris</i>	marsh pea	None	None	S2	2B.2	Mar-Aug	Bogs and fens, Coastal prairie, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest	Yes

Scientific Name	Common Name	ESA	CESA	State Rank	CRPR	Bloom Period	Habitat	Potential Habitat Present?
<i>Lilium rubescens</i>	redwood lily	None	None	S3	4.2	Apr-Aug(Sep)	Broadleafed upland forest, Chaparral, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest	No
<i>Montia howellii</i>	Howell's montia	None	None	S2	2B.2	(Feb)Mar-May	Meadows and seeps, North Coast coniferous forest, Vernal pools	Yes
<i>Piperia candida</i>	white-flowered rein orchid	None	None	S3	1B.2	(Mar)May-Sep	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest	No
<i>Sidalcea malachroides</i>	maple-leaved checkerbloom	None	None	S3	4.2	(Mar)Apr-Aug	Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland	Yes
<i>Sidalcea malviflora ssp. patula</i>	Siskiyou checkerbloom	None	None	S2	1B.2	(Mar)May-Aug	Coastal bluff scrub, Coastal prairie, North Coast coniferous forest	Yes
<i>Tiarella trifoliata</i> L. var. <i>trifoliata</i>	trifoliolate laceflower	None	None	S2S3	3.2	(May)Jun-Aug	Lower montane coniferous forest, North Coast coniferous forest	No

Attachment 4 – Plants Observed within the Project Parcel

Scientific Name	Common Name
Tree Stratum	
<i>Notholithocarpus densiflorus</i>	Tan oak
<i>Pinus radiata</i>	Monterey Pine
<i>Pseudotsuga menziesii</i>	Douglas-fir
<i>Umbellularia californica</i>	California bay tree
Shrub Stratum	
<i>Baccharis pilularis</i>	Coyote brush
<i>Holodiscus discolor</i>	Oceanspray
<i>Vaccinium ovatum</i>	Evergreen huckleberry
Woody Vine	
<i>Delairea odorata</i>	Cape ivy
<i>Marah oreganus</i>	Coastal manroot
<i>Rubus ursinus</i>	Trailing blackberry
Herb Stratum	
<i>Achillea millefolium</i>	Common yarrow
<i>Briza maxima</i>	Greater quaking grass
<i>Clinopodium douglasii</i>	Yerba buena
<i>Cortaderia jubata</i>	Jubata Grass
<i>Cynosurus echinatus</i>	Bristly dogtail grass
<i>Euphoria pepus</i>	Milkweed
<i>Fragaria vesca</i>	Woodland Strawberry
<i>Galium aparine</i>	Catchweed bedstraw
<i>Hieracium albiflorum</i>	White hawkweed
<i>Leucanthemum vulgare</i>	Oxeye daisy
<i>Lupinus rivularis</i>	Riverbank lupine
<i>Plantago lanceolata</i>	Ribwort plantain
<i>Pteridium aquilinum</i>	Common bracken
<i>Sanicula crassicaulis</i>	Pacific sanicle
<i>Sonchus asper</i>	Prickly sowthistle
<i>Stachys bullata</i>	California hedge nettle
<i>Toxicodendron pubescens</i>	Poison Oak
<i>Vicia sativa</i>	Common vetch
Non-native grasses	The portion of the parcels to be developed is currently covered by a maintained clearing comprised of a variety of non-native grasses
Nonvascular Stratum	
<i>Niebla cephalota</i>	Powdery seafog lichen
<i>Scleropodium obtusifolium</i>	Obtuseleaf Scleropodium moss
<i>Tuckermanopsis orbata</i>	Variable wrinkle-lichen
<i>Usnea cornuta</i>	Inflated beard lichen

Attachment 5 – Special Status Wildlife List (Shelter Cove 9-Quad Search)

Scientific Name	Common Name	ESA	CESA	State Rank	Habitat	Potential to Occur
<i>Arborimus pomo</i>	Sonoma tree vole	None	None	S3	North coast fog belt from Oregon border to Sonoma County. In Douglas-fir, redwood and montane hardwood-conifer forests.	No
<i>Ascaphus truei</i>	Pacific tailed frog	None	None	S3S4	Occurs in montane hardwood-conifer, redwood, Douglas-fir and ponderosa pine habitats.	No
<i>Bombus caliginosus</i>	obscure bumble bee	None	None	S1S2	Coastal areas from Santa Barbara County to north to Washington state.	Yes
<i>Bombus occidentalis</i>	western bumble bee	None	None	S1	Once common and widespread, species has declined precipitously from central CA to southern B.C., perhaps from disease.	Yes
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	S2	Throughout California in a wide variety of habitats. Most common in mesic sites.	No
<i>Actinemys marmorata</i>	western pond turtle	None	None	S3	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	No
<i>Erethizon dorsatum</i>	North American porcupine	None	None	S3	Forested habitats in the Sierra Nevada, Cascade, and Coast ranges, with scattered observations from forested areas in the Transverse Ranges.	No
<i>Eumetopias jubatus</i>	Steller sea lion	Delisted	None	S2	Breeds on Ano Nuevo, San Miguel and Farallon islands, Point St. George, and Sugarloaf. Hauls-out on islands and rocks.	No
<i>Helminthoglypta arrosa monticola</i>	mountain shoulderband	None	None	S1	Known only from the King Range in Humboldt County.	No

Scientific Name	Common Name	ESA	CESA	State Rank	Habitat	Potential to Occur
<i>Oncorhynchus kisutch</i> pop 2.	Coho salmon	Threatened	Threatened	S2	Southern Oregon-Northern California.	No
<i>Oncorhynchus mykiss irideus</i> pop. 48	Steelhead-northern California DPS summer-run	Threatened	Endangered	S2	Northern California	No
<i>Oncorhynchus mykiss irideus</i> pop. 49	Steelhead-northern California DPS winter-run	Threatened	None	S3	Northern California	No
<i>Pekania pennanti</i>	Fisher	None	None	S2S3	Intermediate to large-tree stages of coniferous forests and deciduous-riparian areas with high percent canopy closure.	No
<i>Rhyacotriton variegatus</i>	southern torrent salamander	None	None	S2S3	Coastal redwood, Douglas-fir, mixed conifer, montane riparian, and montane hardwood-conifer habitats. Old growth forest.	No
<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threatened	Threatened	S2	Requires mature forest patches with permanent water and suitable nesting trees and snags.	No
<i>Taricha rivularis</i>	red-bellied newt	None	None	S2	Coastal drainages from Humboldt County south to Sonoma County, inland to Lake County. Isolated population of uncertain origin in Santa Clara County.	No
<i>Taxidea taxus</i>	American badger	None	None	S3	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	No

Attachment 6 – Photo facing east, looking towards the subject parcel from the road.



Attachment 7 – Photo facing east, looking across the subject parcel from the northwest corner of the parcel

