

Exhibit D

This page intentionally left blank.

Matt Hubbard
480 Gate 5 Road, Suite 100
Sausalito, CA 94965

October 4, 2024

Re: Casita Cypress Biological assessment updated 09/27/2024

Dear Matt,

As requested, I have completed an on-site assessment of Biological Resources on the 1.388-acre Casita Cypress property, APN 008-453-017 at 1455 Cypress Drive

Summary

The Owners of Casita Cypress have asked for a biological assessment of their property at 1455 Cypress Drive in Pebble Beach Ca. The property has an existing 2,446 square-foot, 48-year-old single family residence with an attached 440 square foot garage and two full-sized tennis courts on the east side of the lot. A redesign of part of the property landscape and hardscape including a revision to recreational areas, and the driveway entrance is being proposed. (See Bliss Landscape Architecture {BLA} Plan sheets included with this report in the submittal) Other than the two unique Monterey peninsula native Trees, the Monterey Cypress and Monterey Pine, no special status (Rare, Threatened or Endangered) plants or animals were observed on the property. Two trees have been removed under separate permit, one a 12" dbh Coast live oak, outside the current fence line at the Southern point of the lot, and one, a 12" Monterey Pine in a crowded stand of similarly sized pines along the southeastern fence line near the new driveway entry. Both trees were dead. These trees are being mitigated for in the landscape plan with two Coast Live oaks and one Monterey Cypress tree. See arborists report from Chris Stewart, Urban Tree Management with submittal package. No Monterey Cypress or Special status plants or animals will be significantly impacted by the proposed project.

1455 Cypress Drive is at the western edge of the Monterey Peninsula within the Del Monte Forest Local coastal program segment of the of the California Coastal Act, in the Monterey Quadrangle of the USGS. The lot is roughly rectangular shaped with the four corners pointing north, south, east and west and the long sides of the rectangle running NE to S. The lot is bordered on the SW side by Cypress Drive, and the West by Cabrillo Road . This lot shares property lines with neighbors on its NW and East sides. This is a heavily developed section of Pebble Beach. This part of the Peninsula is directly adjacent to one of only two known natural populations of the Monterey Cypress (*Hesperocyparis macrocarpa*) in the world and many trees are present on the property, but they are in a mixed evergreen woodland with Coast Live Oak (*Quercus agrifolia*) and Monterey Pine (*Pinus radiata*) and nonnative Eucalyptus and Acacia. Several of the Cypress trees are clearly from row planting along the sides of the tennis courts. The most significant and possibly native origin Cypress trees are just outside the property line in the SW corner of the lot. The canopy of these trees extends into the lot but the understory inside and outside the fence there is sparse and consists of weeds and introduced landscape plants. This site has been thoroughly altered horticulturally from end to end and has no obvious natural Cypress stand within it. Along the frontage of Cypress Drive there are

several clusters of mature Monterey Cypress with recently planted small Cypress trees in open areas between them where heavy layers of shredded wood chips have been laid down. In contrast, across the road to the South and West are nearly pure stands of Monterey Cypress. Monterey Cypress Forest is considered an Environmentally Sensitive Habitat Area (ESHA) and is afforded protection under both the Coastal Act and the California Endangered Species Act (CESA).

Research and pertinent policies.

The Del Monte Forest Land Use Plan identifies much of the area within the LUP boundaries as Environmentally sensitive habitat areas (or ESHAs). ESHA's in the Del Monte Forest are defined as those areas in which plant or animal life or their habitats are either rare or especially valuable due to their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments. The Coastal Act provides strong protection for environmentally sensitive habitat areas and within such areas permits only resource-dependent uses (e.g., nature education and research) that do not result in any significant disruption of habitat values. The Act also requires that any development adjacent to environmentally sensitive habitat areas be properly sited and designed to avoid impacts that would significantly degrade such habitat areas

20. Indigenous Monterey cypress habitat is an environmentally sensitive habitat area within the Del Monte Forest. All use and development in or adjacent to indigenous Monterey cypress habitat areas shall be compatible with the objective of protecting this environmentally sensitive coastal resource. All improvements (such as structures and driveways, etc.) shall be carefully sited and designed to avoid potential damage or degradation of Monterey cypress habitat, including the microhabitat of individual cypress trees, and must be located within existing hardscaped areas and outside of the dripline of individual cypress trees. Within the perimeter of the identified habitat area for a site, including at a minimum as defined by the driplines of the outermost indigenous Monterey cypress trees on the site, removal of native trees or other indigenous vegetation, grading, paving, building construction activity, landscape alterations and summer watering shall be prohibited. Open space conservation and scenic easements are required for all undeveloped areas of a parcel within the Monterey cypress habitat area, and such easements shall be secured consistent with Policy 13.

Prior to my first visit I conducted Database searches through the California Native Plant Society Rare Plant Inventory and the California a Natural diversity Database for Special Status (Rare, Threatened or Endangered) Plants and wildlife and Plant communities in the Monterey Quadrangle. The results of those searches are included as appendices to this report. Based on the location and plant community known on the project site I was able to eliminate those plant species found only at higher elevations or further inland or in freshwater aquatic habitats. ESHA can be defined by the Individual species that it hosts, or the uniqueness of the plant community itself. In this case, while the naturally occurring Monterey Cypress Forest is extremely rare, the plant community, unlike nearby Dune and Coastal Bluff scrub plant communities, does not typically host many other rare, threatened, or endangered species. The ESHA classification is entirely focused on the Cypress Forest and its

individual trees. Notes in the database table indicate what species are likely to occur in this fragmented habitat at this elevation.

Monterey cypress occurs in two natural stands in Monterey County, California. One stand, known as the Crocker Grove, is between Point Cypress and Pescadero Point on the north side of Carmel Bay, Monterey Peninsula. A smaller one is near Point Lobos on the south side of Carmel Bay. Monterey cypress is the dominant component of the Monterey cypress forest community. This community is a moderately dense, fire-maintained forest up to 82 feet tall in sheltered areas.

Monterey cypress typically grows in pure stands with an understory of scattered dwarf shrubs and perennial herbs. It intergrades with northern coastal bluff scrub on exposed seaward edges and with Monterey pine (*Pinus radiata*) forest away from the ocean. The mix on the Casita Cypress lot does not have a dominant species and would not be classified as Monterey Cypress Forest. Monterey cypress is associated with closed-cone coniferous woodlands and closed-cone pine-cypress forests. Species commonly associated with Monterey cypress include seaside daisy (*Erigeron glaucus*), California sagebrush (*Artemisia californica*), coyote brush (*B. pilularis* var. *consanguinea*), blue blossom (*Ceanothus thrysiflorus* var. *thrysiflorus*), liveforever (*Dudleya farinosa*), lizard tail (*Eriophyllum staechadifolium*), Douglas iris (*Iris douglasiana*), bush monkeyflower (*Diplacus aurantiacus*), Pacific bayberry (*Myrica californica*), skunkweed (*Navarretia squarrosa*), poison-oak (*Toxicodendron diversilobum*), and California huckleberry (*Vaccinium ovatum*). The limited area of Monterey Cypress understory at 1455 Cypress Drive contains only a couple blue blossom shrubs (*Ceanothus thrysiflorus* variety *thrysiflorus*) with the rest being nonnative invasive weeds or landscape material and a handful of planted native selections and species.

Observations

On September 18, 2023 and April 16 and April 22, 2024, I visited the Casita Cypress property to see the layout of the existing development and survey the entire property for sensitive plant and animal species and plant communities. The initial September visit was not the best time of year to do floristic surveys in California. Most of the special status plant species found along the Coast flower earlier in the year and 100 percent certainty of presence or absence of a plant species can only be confirmed when those plants are in bloom. The April visits allowed for the best opportunity to identify any of the special status annual or perennial species that could occur on the property. During my survey visits I walked the entire property, starting near the single-family residence on the west end and progressing throughout the property around the perimeter and through the midsection. Between the house, the tennis court, the driveway and auto court much of the property is covered by hardscape. Where it is not, the vegetation is at least 90% nonnative.

Around the house, extensive landscape planting is dominated by trees and shrubs (and weeds) of other Mediterranean regions of the world. This includes some of the most successful – ultimately invasive plants along the Central Coast. Blackwood acacia (*Acacia melanoxylon**), Pride of Madeira (*Echium fastuosum**). French broom (*Genista monspessulana**), Butterfly bush (*Buddleia davidii**), Ngaio tree (*Myoporum laetum**), Coast Statice (*Limonium perezii**), English Ivy (*Hedera helix**), New Zealand flax (*Phormium tenax*) Santa Barbara daisy (*Erigeron karvinskianus**), Jade Plant (*Crassula*

ovata*), Panic Veldt grass (*Ehrharta erecta**), Society garlic (*Tulbaghia violacea*), Sweet pea shrub (*Polygala myrtifolia*) Juniper (*Juniperus* sp.) Smoke tree (*Cotinus coggygria*) and Coast Rosemary (*Westringia fruticosa*). Several of these landscape plants are considered invasive on the Central Coast and are recommended for removal from areas that interface with native habitat. The “success” of these plants makes them easy care landscape plants but a threat to native plant species by their spread, and to native wildlife in their limited value as forage plants for insects, birds or mammals. The coastal climate is ideal for the naturalization of many of these plants and their inclusion in landscapes in the Coastal zone has allowed them to spread and competed with native species to the detriment of the habitat.

Native plants are infrequent on the property and scattered primarily in the SW corner under some of the remaining native Monterey Cypress, Monterey Pine and Coast Live oak trees. A few typical understory species including Woodland Strawberry (*Fragaria vesca*) Yerba buena (*Clinopodium douglasii*), Douglas’ Iris (*Iris douglasiana*), Sedge (*Carex* sp.), Blue wild rye (*Elymus glaucus*), Blue blossom (*Ceanothus thrysiflorus* variety *thrysiflorus*) and California coffeeberry (*Frangula californica*) are found in filtered light under the tree canopy next to the fence line along Cypress Drive, but in very limited numbers. A few native selections or cultivar landscape plants are found in the beds and borders around the house including a large manicured (Lolli popped) *Ceanothus* ‘Ray Hartman’, Giant chain fern and Western Sword fern.

The Monterey Cypress Forest likely occupied an area in the Southwestern portion of the property prior to the original development, but mature Coast Live oaks on the northern portion and neighboring lots could well indicate that the inland boundary of the Cypress Forest could have been closer to Cypress Drive. A cluster of old Cypress trees at the SE corner and several old decaying trunks of substantial girth may mark the northern extent of the forest in this area. The understory in each of the two small pockets of remaining Cypress trees is very limited with mostly weeds and lots of recently deposited wood chip mulch. While there are many young “volunteer” seedlings of Monterey Cypress and Monterey Pine, none of the common understory species like Seaside daisy (*Erigeron glaucus*) or Woodmint (*Stachys bullata*), are found anywhere on the property. Recent efforts at replanting Cypress seedlings in areas along the Cypress Drive driveway entrance show signs of stress from either lack of water or too much wood mulch piled up on the stems (trunks)

The Monterey Cypress Forest and associated native understory species at Casita Cypress were not likely very widespread originally. The coast Live Oak and Monterey Pines on site are comparable and indicative of higher terraces on the peninsula but are now spread out and fragmented by the landscape trees and shrubs with hardscape, or structures between the fragments. There are two areas with what may be native origin Cypress habitat on site. The most sensitive is at the southernmost portion of the lot at the intersection of Cypress Drive and Cabrillo Road (1) where several large trees have broad canopies that extend over the property but are actually outside of the lot. In evaluating the distribution of the native occurrence of Monterey Cypress on the peninsula, this area would be the lowest level of habitat sensitivity. Looking at just this lot, it would be the most sensitive and really only so because of the large trees adjacent to the lot. (See BLA sensitivity map with submittal). This area could be restored to good quality habitat with the removal of nonnative

species and replacement with typical cypress understory species. The other (2) is along the Eastern boundary where three large Cypresses persist where they may have been planted on site but could be naturally occurring. This is low quality habitat if it is natural. Redevelopment of the Middle, north, and east portions would have no impact at all on existing Monterey Cypress trees or Monterey Cypress habitat. The proposed design will have no impact on Monterey Cypress trees whether they were planted on site or germinated on site.

Existing house

The existing house on site does have several Cypress trees close to it on the SE and SW corners, but potential space to increase the footprint of the hardscape or landscape on the north and south sides (and northwest of the attached garage) remains where no impacts to Monterey Cypress trees or habitat would occur. North and NW of the house and garage the only limitations are where the property line setback is. South of the house the conditions are more influenced by the remaining mature Monterey Cypress and landscape revisions should carefully consider the root systems of trees on east and west corners of the building and on the southern extreme of the property. Restoring the understory of the remaining cypress trees in the south and along the SE fence line would significantly mitigate past and future forest impacts.

Tennis courts

The Dual Tennis courts with the out of play areas have a significant footprint that is bordered on the East by a potential remnant of Monterey Cypress Forest. The proposed new sport court is in the southwestern portion of the footprint of the current tennis complex and part of the existing driveway, and redevelopment of this area would have no negative impact on Monterey Cypress trees or habitat. The shifting of the recreational use area to the west and bringing the driveway around to the east around it before it arrives at the north side of the existing residence allows the center of the property, outside of any forested section to be utilized fully while creating a buffer between the development and the roads and the perimeter trees.

To summarize: the property in its current state has a mixture of Mixed Evergreen woodland containing Coast Live oak, Monterey Pine and Monterey Cypress and several nonnative (and invasive) trees. There are two locations on the far edges of the lot where large Monterey Cypress trees exist in clusters that are not extensive but could have naturally germinated on site. None of the trees will be significantly impacted by the property improvements and several of these trees are not within the property line. The BLA landscape planting plan includes replanting of typical Monterey Cypress Forest understory within the critical habitat zone of these trees where it extends onto this property. (Canopy drip line plus 10'). No other special status plants or animals were located and identified on the property. The landscape improvements will result in a significant reduction of hardscape on the property and will restore and improve Monterey Cypress habitat in the SW corner and the SE corner.

This landscape improvement project will have no negative impacts on special status plants, animals or plant communities.

Pat Regan

Appendices

Pages 6 -11 Photos of existing conditions on property

Pages 12 -15 California Rare Plant inventory for Monterey quadrangle

Pages 16 – 20 California Natural Diversity Database output for Monterey Quadrangle



Figure 1: View looking north at neighboring fence line. Invasive Pride of Madeira dominating the landscape. No sensitive species or habitat here.

Figure 2: View looking West through densely planted landscape in NW corner of lot. No sensitive species or habitat here.





Figure 3: View looking NE from SW corner of lot. Invasive Acacia on left, Pride of Madeira on right. No sensitive species or habitat here

Figure 4: View looking SE through landscape at fence along Cypress Drive and large old Monterey Cypress in background.





Figure 5:View of fence along Cypress Drive with mix of invasive nonnatives and remnant native understory species , bedstraw and Douglas's iris

Figure 6: View looking west NW at South side of house and background trees. All nonnative landscape plants here.





Figure 7 : Large native California coffeeberry in understory in southern portion of lot near Cypress Drive.

Figure 8: Open understory near driveway and fence fronting Cypress Drive. Older Pines and Cypress and planted seedlings in foreground.





Figure 9: View looking NE past house to Tennis Court. Monterey Pine and Cypress in background

Figure 10: View of SE corner of house with two closest planted Cypress trees.





Figure 11: View looking NW through tennis courts toward house. No sensitive species or habitat here

Figure 12: View of 2 very old Monterey Cypress Trees at SE corner of Tennis courts.



CNPS Rare Plant inventory for the Monterey Quadrangle and 1455 Cypress Drive, Pebble Beach CA							Elevat.	Elevat.	Present
Red text Plants are out of the 76-84 foot elevation range of the property							Low_ft	High_ft	on site?
ScientificName	CommonName	CRPR	CESA	FESA	Blooming Period	Habitat			
Allium hickmanii	Hickman's onion	1B.2	None	None	Mar-May	Chaparral, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Valley and foothill grassland	15	655	no
Arctostaphylos hookeri ssp. hookeri	Hooker's manzanita	1B.2	None	None	Jan-Jun	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal scrub	195	1760	no
Arctostaphylos montereyensis	Toro manzanita	1B.2	None	None	Feb-Mar	Chaparral, Cismontane woodland, Coastal scrub	100	2395	no
Arctostaphylos pajaroensis	Pajaro manzanita	1B.1	None	None	Dec-Mar	Chaparral	100	2495	no
Arctostaphylos pumila	sandmat manzanita	1B.2	None	None	Feb-May	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub	10	675	no
Astragalus nuttallii var. nuttallii	ocean bluff milk-vetch	4.2	None	None	Jan-Nov	Coastal bluff scrub, Coastal dunes	10	395	no
Astragalus tener var. titi	coastal dunes milk-vetch	1B.1	CE	FE	Mar-May	Coastal bluff scrub, Coastal dunes, Coastal prairie	5	165	no
Castilleja ambigua var. insalutata	pink Johnny-nip	1B.1	None	None	May-Aug	Coastal prairie, Coastal scrub	0	330	no
Castilleja latifolia	Monterey Coast paintbrush	4.3	None	None	Feb-Sep	Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub	0	605	no
Ceanothus rigidus	Monterey ceanothus	4.2	None	None	Feb-Apr(Jun)	Chaparral, Closed-cone coniferous forest, Coastal scrub	10	1805	no
Chorizanthe douglasii	Douglas' spineflower	4.3	None	None	Apr-Jul	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	180	5250	no

Chorizanthe pungens var. pungens	Monterey spineflower	1B.2	None	FT	Apr-Jun(Jul-Aug)	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland	10	1475	no
Clarkia jolonensis	Jolon clarkia	1B.2	None	None	Apr-Jun	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	65	2165	no
Clarkia lewisii	Lewis' clarkia	4.3	None	None	May-Jul	Broadleaved upland forest, Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal scrub	100	3920	no
Collinsia multicolor	San Francisco collinsia	1B.2	None	None	(Feb)Mar-May	Closed-cone coniferous forest, Coastal scrub	100	900	no
Cordylanthus rigidus ssp. littoralis	seaside bird's-beak	1B.1	CE	None	Apr-Oct	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub	0	1690	no
Cryptantha rattanii	Rattan's cryptantha	4.3	None	None	Apr-Jul	Cismontane woodland, Riparian woodland, Valley and foothill grassland	805	3000	no
Delphinium hutchinsoniae	Hutchinson's larkspur	1B.2	None	None	Mar-Jun	Broadleaved upland forest, Chaparral, Coastal prairie, Coastal scrub	0	1400	no
Eriastrum virgatum	virgate eriastrum	4.3	None	None	May-Jul	Chaparral, Coastal bluff scrub, Coastal dunes, Coastal scrub	150	2295	no
Ericameria fasciculata	Eastwood's goldenbush	1B.1	None	None	Jul-Oct	Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub	100	900	no
Erysimum menziesii	Menzies' wallflower	1B.1	CE	FE	Mar-Sep	Coastal dunes	0	115	no
Fritillaria agrestis	stinkbells	4.2	None	None	Mar-Jun	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland	35	5100	no
Fritillaria liliacea	fragrant fritillary	1B.2	None	None	Feb-Apr	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland	10	1345	no
Gilia tenuiflora ssp. amplifaucalis	trumpet-throated gilia	4.3	None	None	Mar-Apr	Cismontane woodland, Valley and foothill grassland	1280	2955	no
Gilia tenuiflora ssp. arenaria	Monterey gilia	1B.2	CT	FE	Apr-Jun	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub	0	150	no

Horkelia cuneata var. sericea	Kellogg's horkelia	1B.1	None	None	Apr-Sep	Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub	35	655	no
Hosackia gracilis	harlequin lotus	4.2	None	None	Mar-Jul	Broadleaved 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	0	2295	no
Iris longipetala	coast iris	4.2	None	None	Mar-May(Jun)	Coastal prairie, Lower montane coniferous forest, Meadows and seeps	0	1970	no
Layia carnosa	beach layia	1B.1	CE	FE	Mar-Jul	Coastal dunes, Coastal scrub	0	195	no
Leptosiphon grandiflorus	large-flowered leptosiphon	4.2	None	None	Apr-Aug	Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland	15	4005	no
Leptosiphon latisectus	broad-lobed leptosiphon	4.3	None	None	Apr-Jun	Broadleaved upland forest, Cismontane woodland	560	4920	no
Lessingia tenuis	spring lessingia	4.3	None	None	May-Jul	Chaparral, Cismontane woodland, Lower montane coniferous forest	985	7055	no
Lomatium parvifolium	small-leaved lomatium	4.2	None	None	Jan-Jun	Chaparral, Closed-cone coniferous forest, Coastal scrub, Riparian woodland	65	2295	no
Lupinus tidestromii	Tidestrom's lupine	1B.1	CE	FE	Apr-Jun	Coastal dunes	0	330	no
Malacothamnus palmeri var. involucreatus	Carmel Valley bush-mallow	1B.2	None	None	Apr-Oct	Chaparral, Cismontane woodland, Coastal scrub	100	3610	no
Microseris paludosa	marsh microseris	1B.2	None	None	Apr-Jun(Jul)	Cismontane woodland, Closed-cone coniferous forest, Coastal scrub, Valley and foothill grassland	15	1165	no
Monardella sinuata ssp. nigrescens	northern curly-leaved monardella	1B.2	None	None	(Apr)May-Jul(Aug-Sep)	Chaparral, Coastal dunes, Coastal scrub, Lower montane coniferous forest	0	985	no

<i>Monolopia gracilens</i>	woodland woollythreads	1B.2	None	None	(Feb)Mar-Jul	Broadleaved upland forest, Chaparral, Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland	330	3935	no
<i>Piperia michaelii</i>	Michael's rein orchid	4.2	None	None	Apr-Aug	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal scrub, Lower montane coniferous forest	10	3000	no
<i>Piperia yadonii</i>	Yadon's rein orchid	1B.1	None	FE	(Feb)May-Aug	Chaparral, Closed-cone coniferous forest, Coastal bluff scrub	35	1675	no
<i>Potentilla hickmanii</i>	Hickman's cinquefoil	1B.1	CE	FE	Apr-Aug	Closed-cone coniferous forest, Coastal bluff scrub, Marshes and swamps, Meadows and seeps	35	490	no
<i>Rosa pinetorum</i>	pine rose	1B.2	None	None	May-Jul	Cismontane woodland, Closed-cone coniferous forest	5	3100	no
<i>Sidalcea malachroides</i>	maple-leaved checkerbloom	4.2	None	None	(Mar)Apr-Aug	Broadleaved upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland	0	2395	no
<i>Trifolium hydrophilum</i>	saline clover	1B.2	None	None	Apr-Jun	Marshes and swamps, Valley and foothill grassland, Vernal pools	0	985	no
<i>Trifolium polyodon</i>	Pacific Grove clover	1B.1	CR	None	Apr-Jun(Jul)	Closed-cone coniferous forest, Coastal prairie, Meadows and seeps, Valley and foothill grassland	15	1395	no
<i>Trifolium trichocalyx</i>	Monterey clover	1B.1	CE	FE	Apr-Jun	Closed-cone coniferous forest	100	1000	no
CA Rare Plant Rank	Description								
1B.1	Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California								
1B.2	Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California								
1B.3	Plants rare, threatened, or endangered in California and elsewhere; not very threatened in California								
4.1	Plants of limited distribution; seriously threatened in California								
4.2	Plants of limited distribution; fairly threatened in California								
4.3	Plants of limited distribution; not very threatened in California								

CNDDDB inventory for the Monterey Quadrangle, 1455 Cypress Drive, Pebble Beach CA							
		Federal	State	CDFW	CA Rare	potential	observed
Scientific_Name	Common_Name	_Status	_Status	Status	Plnt Rank	habitat?	on site?
Animals - Amphibians							
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	Threatened	Threatened	WL	-	no	no
Batrachoseps luciae	Santa Lucia slender salamander	None	None	-	-	marginal	no
Rana boylei	foothill yellow-legged frog	None	Endangered	SSC	-	no	no
Rana draytonii	California red-legged frog	Threatened	None	SSC	-	no	no
Taricha torosa	Coast Range newt	None	None	SSC	-	no	no
Animals - Birds							
Ardea herodias	great blue heron	None	None	-	-	no	no
Athene cunicularia	burrowing owl	None	None	SSC	-	no	no
Charadrius nivosus nivosus	western snowy plover	Threatened	None	SSC	-	no	no
Coturnicops noveboracensis	yellow rail	None	None	SSC	-	no	no
Cypseloides niger	black swift	None	None	SSC	-	no	no
Laterallus jamaicensis coturniculus	California black rail	None	Threatened	FP	-	no	no
Passerculus sandwichensis alaudinus	Bryant's savannah sparrow	None	None	SSC	-	no	no
Pelecanus occidentalis californicus	California brown pelican	Delisted	Delisted	FP	-	no	no
Ptychoramphus aleuticus	Cassin's auklet	None	None	SSC	-	no	no
Rallus obsoletus obsoletus	California Ridgway's rail	Endangered	Endangered	FP	-	no	no
Setophaga petechia	yellow warbler	None	None	SSC	-	no	no
Animals - Fish							
Oncorhynchus mykiss irideus pop. 9	steelhead - south-central California coast DPS	Threatened	None	-	-	no	no
Animals - Insects							
Bombus caliginosus	obscure bumble bee	None	None	-	-	no	no
Bombus occidentalis	western bumble bee	None	None	-	-	no	no
Coelus globosus	globose dune beetle	None	None	-	-	no	no
Danaus plexippus pop. 1	monarch - California overwintering population	Candidate	None	-	-	marginal	no

		Federal	State	CDFW	CA Rare	potential	observed
Scientific_Name	Common_Name	_Status	_Status	Status	Plnt Rank	habitat ?	on site?
Euphilotes enoptes smithi	Smith's blue butterfly	Endangered	None	-	-	no	no*
Animals - Mammals							
Enhydra lutris nereis	southern sea otter	Threatened	None	FP	-	no	no
Eumetopias jubatus	Steller sea lion	Delisted	None	-	-	no	no
Lasiurus cinereus	hoary bat	None	None	-	-	no	no
Myotis yumanensis	Yuma myotis	None	None	-	-	no	no
Neotoma macrotis luciana	Monterey dusky-footed woodrat	None	None	SSC	-	marginal	no
Sorex ornatus salarius	Monterey shrew	None	None	SSC	-	no	no
Sorex vagrans paludivagus	Monterey vagrant shrew	None	None	-	-	no	no
Animals - Mollusks							
Haliotis cracherodii	black abalone	Endangered	None	-	-	no	no
Haliotis kamtschatkana	pinto abalone	None	None	-	-	no	no
Animals - Reptiles							
Anniella pulchra	Northern California legless lizard	None	None	SSC	-	no	no
Emys marmorata	western pond turtle	None	None	SSC	-	no	no
Phrynosoma blainvillii	coast horned lizard	None	None	SSC	-	no	no
Thamnophis hammondi	two-striped gartersnake	None	None	SSC	-	no	no
Community - Terrestrial							
Central Dune Scrub	Central Dune Scrub	None	None	-	-	no	no
Central Maritime Chaparral	Central Maritime Chaparral	None	None	-	-	no	no
Monterey Cypress Forest	Monterey Cypress Forest	None	None	-	-	yes	yes
Monterey Pine Forest	Monterey Pine Forest	None	None	-	-	yes	remnant
Monterey Pygmy Cypress Forest	Monterey Pygmy Cypress Forest	None	None	-	-	no	no
Northern Bishop Pine Forest	Northern Bishop Pine Forest	None	None	-	-	no	no
Plants - Lichens							
Ramalina thrausta	angel's hair lichen	None	None	-	2B.1	no	no
Sulcaria spiralifera	twisted horsehair lichen	None	None	-	1B.2	no	no
Plants - Vascular							
Allium hickmanii	Hickman's onion	None	None	-	1B.2	no	no
Arctostaphylos hookeri ssp. hookeri	Hooker's manzanita	None	None	-	1B.2	no	no

		Federal	State	CDFW	CA Rare	potential	observed
Scientific_Name	Common_Name	_Status	_Status	Status	Plnt Rank	habitat ?	on site?
Arctostaphylos montereyensis	Toro manzanita	None	None	-	1B.2	no	no
Arctostaphylos pajaroensis	Pajaro manzanita	None	None	-	1B.1	no	no
Arctostaphylos pumila	sandmat manzanita	None	None	-	1B.2	no	no
Astragalus nuttallii var. nuttallii	ocean bluff milk-vetch	None	None	-	4.2	no	no
Astragalus tener var. titi	coastal dunes milk-vetch	Endangered	Endangered	-	1B.1	no	no
Castilleja ambigua var. insalutata	pink Johnny-nip	None	None	-	1B.1	no	no
Castilleja latifolia	Monterey Coast paintbrush	None	None	-	4.3	no	no
Ceanothus rigidus	Monterey ceanothus	None	None	-	4.2	no	no
Chorizanthe douglasii	Douglas' spineflower	None	None	-	4.3	no	no
Chorizanthe pungens var. pungens	Monterey spineflower	Threatened	None	-	1B.2	no	no
Clarkia jolonensis	Jolon clarkia	None	None	-	1B.2	no	no
Clarkia lewisii	Lewis' clarkia	None	None	-	4.3	no	no
Collinsia multicolor	San Francisco collinsia	None	None	-	1B.2	no	no
Cordylanthus rigidus ssp. littoralis	seaside bird's-beak	None	Endangered	-	1B.1	no	no
Cryptantha rattanii	Rattan's cryptantha	None	None	-	4.3	no	no
Delphinium hutchinsoniae	Hutchinson's larkspur	None	None	-	1B.2	no	no
Eriastrum virgatum	virgate eriastrum	None	None	-	4.3	no	no
Ericameria fasciculata	Eastwood's goldenbush	None	None	-	1B.1	no	no
Erysimum menziesii	Menzies' wallflower	Endangered	Endangered	-	1B.1	no	no
Fritillaria agrestis	stinkbells	None	None	-	4.2	no	no
Fritillaria liliacea	fragrant fritillary	None	None	-	1B.2	no	no
Gilia tenuiflora ssp. amplifaucalis	trumpet-throated gilia	None	None	-	4.3	no	no
Gilia tenuiflora ssp. arenaria	Monterey gilia	Endangered	Threatened	-	1B.2	no	no
Hesperocyparis goveniana	Gowen cypress	Threatened	None	-	1B.2	no	no
Hesperocyparis macrocarpa	Monterey cypress	None	None	-	1B.2	yes	yes
Horkelia cuneata var. sericea	Kellogg's horkelia	None	None	-	1B.1	no	no
Hosackia gracilis	harlequin lotus	None	None	-	4.2	no	no
Iris longipetala	coast iris	None	None	-	4.2	no	no

		Federal	State	CDFW	CA Rare	potential	observed
Scientific_Name	Common_Name	_Status	_Status	Status	Plnt Rank	habitat ?	on site?
Layia carnosa	beach layia	Endangered	Endangered	-	1B.1	no	no
Leptosiphon grandiflorus	large-flowered leptosiphon	None	None	-	4.2	no	no
Leptosiphon latisectus	broad-lobed leptosiphon	None	None	-	4.3	no	no
Lessingia tenuis	spring lessingia	None	None	-	4.3	no	no
Lomatium parvifolium	small-leaved lomatium	None	None	-	4.2	no	no
Lupinus tidestromii	Tidestrom's lupine	Endangered	Endangered	-	1B.1	no	no
Malacothamnus palmeri var. involucratus	Carmel Valley bush-mallow	None	None	-	1B.2	no	no
Microseris paludosa	marsh microseris	None	None	-	1B.2	no	no
Monardella sinuata ssp. nigrescens	northern curly-leaved monardella	None	None	-	1B.2	no	no
Monolopia gracilens	woodland woollythreads	None	None	-	1B.2	no	no
Pinus radiata	Monterey pine	None	None	-	1B.1	no	no
Piperia michaelii	Michael's rein orchid	None	None	-	4.2	no	no
Piperia yadonii	Yadon's rein orchid	Endangered	None	-	1B.1	marginal	no
Potentilla hickmanii	Hickman's cinquefoil	Endangered	Endangered	-	1B.1	no	no
Rosa pinetorum	pine rose	None	None	-	1B.2	no	no
Sidalcea malachroides	maple-leaved checkerbloom	None	None	-	4.2	no	no
Trifolium hydrophilum	saline clover	None	None	-	1B.2	no	no
Trifolium polyodon	Pacific Grove clover	None	Rare	-	1B.1	no	no
Trifolium trichocalyx	Monterey clover	Endangered	Endangered	-	1B.1	no	no
CA Rare Plant Rank	Description						
1A	Plants presumed extinct in California and rare/extinct elsewhere						
1B.1	Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California						
1B.2	Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California						
1B.3	Plants rare, threatened, or endangered in California and elsewhere; not very threatened in California						
4.1	Plants of limited distribution; seriously threatened in California						
4.2	Plants of limited distribution; fairly threatened in California						
4.3	Plants of limited distribution; not very threatened in California						
CESA Status	Description						

FP	Fully Protected: This classification was the State of California's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, amphibians and reptiles, birds and mammals. Most of the species on these lists have subsequently been listed under the state and/or federal endangered species acts.						
SSC	Species of Special Concern: It is the goal and responsibility of the Department of Fish and Wildlife to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long-term viability.						
WL	Watch List: The Department of Fish and Wildlife maintains a list consisting of taxa that were previously designated as "Species of Special Concern" but no longer merit that status, or which do not yet meet SSC criteria, but for which there is concern and a need for additional information to clarify status.						
ESA Listing Status	Description						
Endangered	The classification provided to an animal or plant in danger of extinction within the foreseeable future						
Threatened	The classification provided to an animal or plant which is likely to become an Endangered species within the						
Proposed Endangered	The classification provided to an animal or plant that is proposed for federal listing as Endangered in the						
Proposed Threatened	The classification provided to an animal or plant that is proposed for federal listing as Threatened in the						
Candidate	The classification provided to an animal or plant that has been studied by the United States Fish and						
None	The plant or animal has no federal status.						
Delisted	The plant or animal was previously listed as Endangered or Threatened, but is no longer listed on the						

This page intentionally left blank