

# Appendix C Biological Resources

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# Attachment 1

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**Table A-1. Potential Special-Status Wildlife to Occur**

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
<b>Invertebrates</b>				
Crotch's bumble bee ( <i>Bombus crotchii</i> )	Federal: None State: None	Inhabits open grassland and scrub habitats. Nesting occurs underground. This species is classified as a short-tongued species, whose food plants include those in the following genera: <i>Asclepias</i> , <i>Chaenactis</i> , <i>Lupinus</i> , <i>Medicago</i> , <i>Phacelia</i> , and <i>Salvia</i> (Williams et al. 2014).	Y	Suitable habitat present
Western bumble bee ( <i>Bombus occidentalis</i> )	Federal: None State: None	Open grassy areas, urban parks and gardens, chaparral and shrub areas, and mountain meadows. Typically nests underground in abandoned rodent burrows, such as old squirrel or other animal nests, and in open west-southwest slopes bordered by trees, although a few nests have been reported from above-ground locations such as in logs among railroad ties. Availability of nest sites may depend on rodent abundance (Xerces 2014).	Y	Suitable habitat present
Conservancy fairy shrimp ( <i>Branchinecta conservatio</i> )	Federal: FE State: None	Endemic to California vernal pools, almost entirely in the Central Valley, with the exception of one population along the central coast in Ventura County. Majority of sites inhabited by this species are large and turbid pools which remain inundated much longer than typical vernal pools (USFWS 2012).	N	Suitable habitat not present in the focus areas.
Vernal pool fairy shrimp ( <i>Branchinecta lynchi</i> )	Federal: FT State: None	Endemic to the grasslands of the Central Valley and the Central and South Coast Range mountains of California, and the Agate Desert of southern Oregon. Found only in cool water vernal pools and vernal pool-like habitats; does not occur in riverine, marine, or other permanent bodies of water (USFWS 2007).	N	Suitable habitat not present in the focus areas.
Monarch butterfly (California overwintering population) [ <i>Danaus plexippus</i> (pop. 1)]	Federal: FC State: None	Overwinters along the coast from Mendocino County south into Baja California in wind-protected groves of gum ( <i>Eucalyptus</i> spp.), Monterey pine ( <i>Pinus radiata</i> ), or Monterey cypress ( <i>Hesperocyparis macrocarpa</i> ) with nectar and water sources nearby (IELP 2012).	Y	Suitable habitat present.
Bay checkerspot ( <i>Euphydryas editha bayensis</i> )	Federal: FT State: None	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay. All currently occupied habitats occur on serpentine or serpentine-like grasslands that support at least two of the larval host plants: California plantain ( <i>Plantago erecta</i> ), dense flower owl's-clover ( <i>Castilleja densiflora</i> ), and purple owl's clover ( <i>Castilleja exserta</i> ) (USFWS 2009).	N	Suitable habitat not present in the focus areas.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Vernal pool tadpole shrimp ( <i>Lepidurus packardii</i> )	Federal: FE State: None	Found only in ephemeral freshwater habitats, including alkaline pools, clay flats, vernal lakes, vernal pools, vernal swales, and other seasonal wetlands. Patchily distributed across the Central Valley from Shasta County south to Tulare County with isolated occurrences in the East Bay Area (USFWS 2007).	N	Suitable habitat not present in the focus areas.
Myrtle's silverspot ( <i>Speyeria zerene myrtleae</i> )	Federal: FE State: None	Coastal dune or prairie habitat. Populations were formerly found in dunes and bluffs from San Mateo County north to the mouth of the Russian River in Sonoma County. The populations south of the Golden Gate apparently have been extirpated by urban development. Four populations are known to inhabit coastal terrace prairie, coastal bluff scrub, and associated non-native grassland habitats in western Marin and southwestern Sonoma counties, including Point Reyes National Seashore (USFWS 2017).	N	Suitable habitat not present in the focus areas.
<b>Fishes</b>				
Green sturgeon (southern DPS) ( <i>Acipenser medirostris</i> )	Federal: FT State: SSC	Spawning occurs primarily in the Sacramento River, but those that spawn in the Feather and Yuba Rivers are also part of the southern DPS. Oceanic waters, bays, and estuaries during non-spawning season. Enters San Francisco Bay late winter through early spring, and spawn occurs from April through early July. Spawn in cool sections of river mainstems in deep pools containing small to medium-sized gravel, cobble, or boulder substrate (NMFS 2015).	N	Suitable habitat not present in the focus areas.
Tidewater goby ( <i>Eucyclogobius newberryi</i> )	Federal: FE State: SSC	Shallow coastal lagoons and the uppermost brackish zone of larger estuaries. Rarely found in marine or freshwater environments. Typically associated with still water, less than 3 feet deep, with salinities of less than 12 parts per thousand (USFWS 2007).	N	Outside of known range. Suitable habitat not present.
Delta smelt ( <i>Hypomesus transpacificus</i> )	Federal: FT State: SE	Endemic to open waters of San Francisco Bay and Sacramento-San Joaquin River Delta. Distribution includes San Pablo Bay up through Suisun Bay, upstream through the delta to the Sacramento River below Isleton, and the San Joaquin River below Mossdale. Spawning has not been observed in the wild, but is thought to take place in sloughs and shallow edge-water channels in the upper delta and in Montezuma Slough near Suisun Bay. (USFWS 2010).	N	Outside of known range. Suitable habitat not present.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Coho salmon (central California coast ESU) [ <i>Oncorhynchus kisutch</i> (pop. 4)]	Federal: FE State: SE	Spawns in small streams with beds of loose, silt-free, coarse gravel. Also need cover, cool water, and sufficient dissolved oxygen. At other seasons occurs in estuarine and marine waters. Occurs in Del Norte, Siskiyou, Humboldt, Trinity, Mendocino, and northern Lake Counties (NMFS 2016).	N	Focus areas are outside of the known range for this population.
		Includes naturally spawned anadromous steelhead originating below natural and manmade impassable barriers from the Russian River to and including Aptos Creek, and all drainages of San Francisco and San Pablo Bays eastward to Chipps Island at the confluence of the Sacramento and San Joaquin Rivers. Also, steelhead from two artificial propagation programs: Don Clausen Fish Hatchery Program and Kingfisher Flat Hatchery Program (Monterey Bay Salmon and Trout Project). Spawning habitat includes gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Non-spawning habitat includes estuarine and marine waters (NOAA 2019).		May occur in Alameda
Steelhead (central valley DPS) [ <i>Oncorhynchus mykiss irideus</i> (pop. 11)]	Federal: FT State: None	Includes naturally spawned anadromous steelhead originating below natural and manmade impassable barriers from the Sacramento and San Joaquin Rivers and their tributaries; excludes such fish originating from San Francisco and San Pablo Bays and their tributaries. This DPS does include steelhead from two artificial propagation programs: Coleman National Fish Hatchery Program and Feather River Fish Hatchery Program. Spawning habitat includes gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Non-spawning habitat includes estuarine and marine waters (NOAA 2019).	N	Focus areas are outside of the known range for this population.
Chinook salmon (Central Valley spring-run ESU) [ <i>Oncorhynchus tshawytscha</i> (pop. 6)]	Federal: FT State: ST	Currently found in the Sacramento-San Joaquin River Delta, the Sacramento River and its tributaries, including American, Yuba and Feather Rivers, and Mill, Deer, and Butte Creeks. The numbers of adults are dependent on pool depth and volume, amount of cover, and proximity to gravel. Water temperatures greater than 80°F are lethal to adults (NMFS 2016).	N	Focus areas are outside of the known range for this population.
Chinook salmon (Sacramento River winter-run ESU) [ <i>Oncorhynchus tshawytscha</i> (pop. 7)]	Federal: FE State: SE	Currently found in the Sacramento River below Keswick Dam. Spawns in the Sacramento River but not its tributaries. Requires clean, cold water over gravel beds with water temperatures between 42 and 57°F for spawning (NMFS 2011).	N	Focus areas are outside of the known range for this population.

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Longfin smelt ( <i>Spirinchus thaleichthys</i> )	Federal: FCT State: ST	Considered pelagic and anadromous, though anadromy in this species is poorly understood, and certain populations are not anadromous, completing their life cycle in freshwater lakes and streams (USFWS 2012).	N	Suitable habitat not present in the focus area.)
<b>Amphibians</b>				
California tiger		Breeds in fish-free ephemeral ponds which form in winter and dry in summer. Some also breed in slow streams and semi-permanent waters, including cattle ponds. Spends most of the year underground in small mammal burrows, especially those of California ground squirrel ( <i>Otospermophilus beecheyi</i> ). Typical habitat associations include grassland, oak savanna, edges of mixed woodland, and lower elevation coniferous forest (California Herps 2024).		
Santa Cruz black salamander ( <i>Aneides niger</i> )	Federal: None State: SSC	Ranges in southern San Mateo, western Santa Clara, and all of Santa Cruz Counties. Generally found in mesic forests in the fog belt of the Outer Coast Range. Specifically found in moist stream sides and shallow standing water or seeps. Can occasionally be found in talus formations and rock rubble (Thomson et al. 2016).	N	Outside the known range of the species.
California giant salamander ( <i>Dicamptodon ensatus</i> )	Federal: None State: SSC	Ranges from southern Mendocino County to northern Monterey County with populations in western Lake, Napa, and Santa Clara Counties. Generally found in mesic coastal oak and coniferous forests. Sometimes found in coastal chaparral. Breeding and larval development is known to occur in cold temperature streams (Thomson et al. 2016).	N	Outside the known range of the species.
Foothill yellow-legged frog ( <i>Rana boylei</i> )	Federal: None State: SE (Central Coast, S)	Ranges in the northern half of California except for the Central Valley, Modoc Plateau, and eastern side of the Sierra Nevada Mountains. Generally found in shallow flowing streams and rivers with at least cobble sized substrate. Breeding generally occurs at the margins of wide shallow channels with reduced flow variation near tributary confluences. Specifically, egg masses are placed in low flow locations on or under rocks with preferred substrates being boulders, cobbles, or gravel. Eggs have been found at depths to 34 inches in water velocities of 0 - 0.69 feet per second and at most 40 feet from shore. Maximum water temperature for breeding is 79°F and 48 to 70°F is the preferred range. Tadpoles avoid areas below 55°F and prefer temperatures between 62°F and 72°F (Thomson et al. 2016).	N	Suitable habitat not present in the focus areas.

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California red-legged frog ( <i>Rana draytonii</i> )	Federal: FT State: SSC	Ponds and streams in humid forests, woodlands, grasslands, coastal scrub, and stream sides with plant cover in lowlands or foothills. Breeding habitat includes permanent or ephemeral water sources; lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps. Ephemeral wetland habitats require animal burrows or other moist refuges for estivation when the wetlands are dry. Occurs from sea level to 5,000 feet in elevation. Occurs along the Coast Ranges from Mendocino County south to northern Baja California, and inland across the northernmost reaches of the Sacramento Valley and locally south through portions of the Sierra Nevada foothills as far south as northern Tulare County (Nafis 2024).	N	Suitable habitat not present in the focus areas.
<b>Reptiles</b>				
Northern California legless lizard ( <i>Anniella pulchra</i> )	Federal: None State: SSC	Generally found in habitats with a relatively sparse amount of vegetation including coastal sand dunes, chaparral, pine-oak woodland, desert scrub, grassland, and riparian zones. Specifically, requires sandy to loose loamy substrates suitable for burrowing, and avoids areas with gravel or larger sized substrates and those with greater than 10% clay content. Also tends to avoid non-native grasslands, iceplant fields, and other non-native dominated herbaceous communities (Thomson et al. 2016). Occurs from the southern edge of the San Joaquin River in northern Contra Costa County south to Ventura County, south of which there is a wide area where the species of <i>Anniella</i> is or are unknown. Occurs in scattered locations in the San Joaquin Valley, along the southern Sierra Nevada Mountains, on the desert side of the Tehachapi Mountains, and part of the San Gabriel Mountains. Two melanistic or dusky populations occur. One is in coastal dunes from Morro Bay south to the mouth of the Santa Maria River in San Luis Obispo County. The other, recognized as <i>Anniella pulchra nigra</i> , occurs in beach dunes on the Monterey Peninsula and on the southern coast of Monterey Bay south of the Salinas River in Monterey County (California Herps).	N	Suitable habitat not present in the focus areas.
Western pond turtle ( <i>Emys marmorata</i> )	Federal: None State: SSC	Ranges throughout California except for Inyo and Mono Counties. Generally, occurs in various water bodies including permanent and ephemeral systems either natural or artificial. Upland habitat that is at least moderately undisturbed is required for nesting and overwintering, in	Y	Suitable habitat present in Alameda Creek/Shinn Connection focus area.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
		soils that are loose enough for excavation (Thomson et al. 2016).		
Alameda whipsnake/striped racer ( <i>Masticophis lateralis euryxanthus</i> )	Federal: FT State: ST	Endemic to California where it is only found in the East Bay area in Alameda and Contra Costa Counties. Prefers open areas in canyons, rocky hillsides, and chaparral scrublands, but will range into adjacent grasslands and woodlands (California Herps 2024).	N	Suitable habitat not present in the focus areas..
<b>Birds</b>				
Tricolored blackbird ( <i>Agelaius tricolor</i> )	Federal: None State: CT, SSC	Mostly a year-round resident in California. Common locally throughout Central Valley and in coastal districts from Sonoma County south. Breeds locally in northeastern California. In winter, becomes more widespread along the central coast and San Francisco Bay area, and can be found in portions of the Colorado Desert (Hamilton 2004). Preferred nesting habitat includes cattails ( <i>Typha</i> spp.), bulrushes ( <i>Schoenoplectus</i> spp.), Himalayan blackberry ( <i>Rubus armeniacus</i> ), and agricultural silage. Dense vegetation is preferred but heavily lodged cattails not burned in recent years may preclude settlement. Need access to open water. Strips of emergent vegetation along canals are avoided as nest sites unless they are about 30 feet or more wide but in some ponds, especially where associated with Himalayan blackberries and deep water, settlement may be in narrower fetches of cattails. (CDFW 2008).	N	Suitable habitat not present in the focus areas.
Golden eagle ( <i>Aquila chrysaetos</i> )	Federal: BGEPA State: FP	Uncommon resident in hills and mountains throughout California, and an uncommon migrant and winter resident in the Central Valley and Mojave Desert. Prefers rolling foothills and mountain terrain, wide arid plateaus deeply cut by streams and canyons, open mountain slopes, cliffs, and rock outcrops. (Polite et al. 1990).	N	Suitable nesting habitat not present in the focus areas.
Short-eared owl ( <i>Asio flammeus</i> )	Federal: None State: SSC	Found in open, treeless areas with elevated sites for perches, and dense vegetation for roosting and nesting. Associated with perennial grasslands, prairies, dunes, meadows, irrigated lands, and saline and fresh emergent wetlands. Breeds in coastal areas in Del Norte and Humboldt Counties, San Francisco Bay Delta, northeastern Modoc plateau, east Sierras from Lake Tahoe to Inyo County and San Joaquin Valley. Winters in the Central Valley, western Sierra Nevada foothills and along the coastline (CDFW 2005).	N	Not known to occur or nest in the general vicinity of the project.



Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Burrowing owl ( <i>Athene cunicularia</i> )	Federal: None State: SSC	Resident in much of the state in open, dry grasslands and various desert habitats. Requires open areas with mammal burrows; especially those of California ground squirrel ( <i>Otospermophilus beecheyi</i> ) Inhabits rolling hills, grasslands, fallow fields, sparsely vegetated desert scrub, vacant lots and other open human disturbed lands such as airports and golf courses. Absent from northwest coast and elevations above 5,500 feet (CDFW 1999).	Y	Suitable habitat present.
Marbled murrelet ( <i>Brachyramphus marmoratus</i> )	Federal: FT State: SE	A long-lived seabird which ranges from Alaska south through British Columbia, Washington, Oregon, and northern California as far south as Monterey Bay. Individuals spend most of their life on the ocean and in marine environments, coming inland (a maximum of approximately 50 miles) only to nest. Nests among high limbs of old growth coast redwood ( <i>Sequoia sempervirens</i> ) and Douglas fir ( <i>Pseudotsuga menziesii</i> ) forests (USFWS 2009).	N	No suitable habitat present in the focus areas.
Swainson's hawk ( <i>Buteo swainsoni</i> )	Federal: None State: ST	Nests in oak savanna and cottonwood riparian areas adjacent to foraging habitat of grasslands, agricultural fields, and pastures where they often follow farm equipment to gather killed and maimed rodents. Increasingly also nests in sparse stands of gum trees ( <i>Eucalyptus</i> spp.) and Australian pines ( <i>Casuarina equisetifolia</i> ) and often forage along roadsides and grassy highway medians. Breeding resident in the Central Valley, Klamath Basin, Northeastern Plateau, and in juniper-sagebrush flats of Lassen County. Limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, and Antelope Valley. Winters primarily in Argentina, with most birds absent from California October through February, though a few overwinter in the Sacramento-San Joaquin River Delta. Prolific migrant through southern California in spring and fall, with large mixed-age groups of birds frequently observed kettling high overhead on thermals or foraging together on freshly cut agricultural fields (CDFW 2006).	N	Not known to occur or nest in the general vicinity of the project.
Western snowy plover ( <i>Charadrius nivosus nivosus</i> )	Federal: FT State: SSC	Coastal populations nest on sandy or gravelly dune-backed beaches, sand spits, and on estuarine salt pans and lagoons (USFWS 2005). Inland populations nest along barren to sparsely vegetated flats and along shores of alkaline and saline lakes, reservoirs, ponds, braided river channels, agricultural wastewater ponds, and salt evaporation ponds (Shuford and Gardali 2008). Inland	Y	Suitable habitat present.

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		nesting occurs at Salton Sea, Mono Lake, and isolated sites on the shores of alkali lakes in northeastern California, the Central Valley, and southeastern deserts (CDFW 2008).		
Northern harrier ( <i>Circus hudsonius</i> )	Federal: None State: SSC	Nests on the ground in patches of dense, tall vegetation in undisturbed areas. Breed and forage in a variety of open habitats such as marshes, wet meadows, weedy borders of lakes, rivers and streams, grasslands, pastures, croplands, sagebrush flats, and desert sinks (Shuford and Gardali 2008).	Y	Suitable habitat present.
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )	Federal: FT State: SE	Has declined drastically in California due primarily to loss of habitat. Requires riparian woodland with dense cover; primarily old-growth cottonwood ( <i>Populus</i> spp.) forests with willow ( <i>Salix</i> spp.) understory, but will also nest in overgrown orchards adjacent to streams and dense thickets alongside marshes. Persists in small numbers along the Sacramento River between Red Bluff and Colusa, the Feather River between Yuba City and the Bear River, Owens Valley, the Kern River Valley, the Colorado River Valley, the Santa Ana River near Prado Basin, and the San Luis Rey River in northern San Diego County (USFWS 2019).	N	Suitable habitat not present in the focus areas.
Yellow rail ( <i>Coturnicops noveboracensis</i> )	Federal: None State: SSC	Nests in sedge marshes and meadows with moist soil or shallow standing water. Winters in wet meadows and tidal marshes. Much is unknown about the abundance and distribution of this species because it is extremely secretive and difficult to detect. Has been found nesting on the Modoc Plateau and in Plumas and Lassen Counties. Very rarely detected in migration, and recorded in winter at a very few sites scattered along the coast, though seemingly regular at Tomales Bay in Marin County and Arrowhead Marsh in Alameda County (Shuford and Gardali 2008).	N	Suitable habitat not present in the focus areas.
White-tailed kite ( <i>Elanus leucurus</i> )	Federal: None State: FP	Fairly common resident of the Central Valley, coast, and Coast Range Mountains. Nests in oak savanna, oak and willow riparian, and other open areas with scattered trees near foraging habitat. Forages in open grasslands, meadows, farmlands, and emergent wetlands. Often seen hover foraging over roadsides or grassy highway medians (CDFW 2005).	Y	Suitable habitat present in the focus areas, excluding Shinn Connection
American peregrine falcon ( <i>Falco peregrinus anatum</i> )	Federal: None State: FP	Breeds near wetlands, lakes, rivers, or other waters on cliffs, banks, dunes or mounds, mostly in woodland, forest, and coastal habitats. Nest is a scrape on a depression or	N	Suitable habitat not present in the focus areas.

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		ledge in an open site. May use man-made structures (such as bridges, skyscrapers, or electrical towers), large snags, or trees for nesting (Poline et al. 1990).		
San Francisco common yellowthroat ( <i>Geothlypis trichas sinuosa</i> )	Federal: None State: SSC	Dwells only in the San Francisco Bay Area. Primarily found in brackish and fresh marshes, but also occupies salt marsh and riparian woodland habitat. (Shuford and Gardali 2008).	Y	Suitable habitat present
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Federal: BGEPA State: SE, FP	Permanent resident in the highest Coast Range mountains, across the Cascade Range, and down the Sierra Nevada to the eastern Transverse Ranges of San Bernardino and Riverside Counties. Uncommon migrant and winter visitor to lowland rivers, lakes, and reservoirs. Nests in large, old-growth, or dominant live trees with open branchwork, especially ponderosa pine ( <i>Pinus ponderosa</i> ). Requires large bodies of water or rivers with abundant fish, and adjacent snags (CDFW 1999).	Y	Juvenile observed during reconnaissance survey near Alameda Creek; however, no suitable nesting habitat present in the focus areas.
California black rail ( <i>Laterallus jamaicensis coturniculus</i> )	Federal: None State: ST, FP	Saline, brackish, and fresh emergent wetlands. Scarce, but true abundance difficult to determine due to small size and extremely secretive nature. Known to nest at scattered locations in the San Francisco Bay Area and Delta region, Point Reyes National Seashore, San Luis Obispo and Orange Counties, as well as the Imperial and Lower Colorado River Valleys. Appears intermittently and sparingly at a few locations in the Sacramento Valley (CDFW 1999).	Y	Suitable habitat present.
Alameda song sparrow ( <i>Melospiza melodia pusillula</i> )	Federal: None State: SSC	Restricted to tidal salt marshes, mainly on the fringes of south San Francisco Bay with strongholds near Milpitas and in the Palo Alto Baylands, though a few persist within San Francisco city limits and as far north as El Cerrito in Contra Costa County (Shuford and Gardali 2008).	Y	Suitable habitat present.
California Ridgway's rail ( <i>Rallus obsoletus obsoletus</i> )	Federal: FE State: SE, FP	Restricted to tidal marshes on the fringes of San Pablo Bay, San Francisco Bay, Monterey Bay, and Morro Bay. Requires intricate network of sloughs with small natural berms along tidal channels, preferably with cordgrass ( <i>Spartina</i> spp.) and pickleweed ( <i>Salicornia</i> spp.) (USFWS 2017).	Y	Suitable habitat present.
Bank swallow ( <i>Riparia riparia</i> )	Federal: None State: ST	A colonial nester in riparian and lacustrine bluffs or cliffs with fine-textured or sandy soils into which the nest cavities are dug. Also nests in earthen banks as well as sand and gravel pits. Declined drastically in the state over the 20th Century due to loss of riparian habitat and stabilization of natural banks. Currently most numerous in the Sacramento Valley along the Sacramento, Feather, and American	N	Suitable habitat not present in the focus areas.

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		Rivers, and Cache Creek in western Yolo County. Scarce and very local on the central coast. Occurs elsewhere in the state as an uncommon to rare migrant (CDFW 1999).		
Black skimmer ( <i>Rynchops niger</i> )	Federal: None State: SSC	In California, resides at a very few locations: southern San Francisco Bay from Alameda south to Palo Alto, the south coast from San Pedro to Tijuana Slough, and at the Salton Sea. Prefers calm, shallow water of back bays, lagoons, and estuaries for foraging, and sand bars, beaches, or dikes for roosting and nesting (Shuford and Gardali 2008).	N	Suitable habitat not present in the focus areas.
Yellow warbler ( <i>Setophaga petechia</i> )	Federal: None State: SSC	Usually found in riparian deciduous habitats in summer: cottonwoods ( <i>Populus</i> spp.), willows ( <i>Salix</i> spp.), alders ( <i>Alnus</i> spp.), and other small trees and shrubs typical of low, open-canopy riparian woodland. Also breeds in montane shrubbery in open coniferous forests (CDFW 20XX).	N	Suitable habitat not present.
California least tern ( <i>Sternula antillarum browni</i> )	Federal: FE State: SE, FP	Breeds on the coast from San Francisco Bay south, and rarely up through the Delta to Sacramento County and at the Salton Sea. Nests and roosts in colonies on fine-grain sandy or pebbly beaches, or in smaller numbers on pebbly levees at water treatment plants or evaporation ponds. Forages over near shore ocean waters and in shallow estuaries and lagoons (USFWS 2006).	N	Suitable habitat not present within proposed project footprint of any focus areas.
<b>Mammals</b>				
Pallid bat ( <i>Antrozous pallidus</i> )	Federal: None State: SSC	Ranges across all of California in a wide variety of habitats with preference for arid and semi-arid, and rocky, mountainous areas (Miller 2002); it is abundant in xeric ecosystems. Day and night roosts include rocky crevices, caves, mines, trees (snags, exfoliating bark, hollows of larger trees) and anthropogenic structures (bridges, vacant buildings, bat boxes, attics) (WBWG 2005). Common tree species used are coast redwoods; oaks (valley, live, blue); pine (Ponderosa, lodgepole). Pallid bats are not documented to have very low roost fidelity and will often switch roosts seasonally or even daily (WBWG 2005). When hibernating, pallid bats can be found roosting in buildings, caves, or rock crevices; overwintering roosts will typically be found in protected structures out of direct sunlight with stable temperatures (Miller 2002, WBWG 2005). There is a paucity of information pertaining to maternity colonies of pallid bats; however, it is understood that individuals within a roost will be greater than normal,	Y	Suitable habitat present.

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		but roost selection does not vary greatly from normal behaviors (WBWG 2005). Ranges across nearly all of California except for high elevation portions of the Sierra Nevada Mountains and Del Norte, western Siskiyou, Humboldt, and northern Mendocino Counties (Harris et al.		
Townsend's big-eared bat ( <i>Corynorhinus townsendii</i> )	Federal: None State: SSC	This species has a broad range in the western U.S., occupying montane forests dominated by pine, fir, and aspen trees as well as subalpine areas and arid desert habitats (Adams 2003, Kunz and Martin 1982). Roosting commonly occurs in caves and cave-like structures, including anthropogenic mines and buildings, bridges, and hollow trees (WBWG 2005). Abandoned buildings are typically used in summer months, with a preference of caves and mines in the winter (Adams 2003). Maternity colonies are relatively well documented compared to other species. These colonies form between March and June and can hold between a few individuals and several hundred individuals (WBWG 2005). These maternity colonies will almost exclusively be found in caves and cave-like systems. Ranges throughout California except for high elevation portions of the Sierra Nevada Mountains. Generally prefers mesic habitats but known to occur in all non-alpine habitats of California. This species may use different roosting sites for day and night (CWHR Program Staff 2000).	Y	Suitable habitat present.
Western mastiff bat ( <i>Eumops perotis californicus</i> )	Federal: None State: SSC	Ranges throughout all of Southern California, the central coast, and the Sierra Nevada Mountains. Generally occurs in open, arid, or semi-arid habitats. Roosts in rock crevices and buildings. (Ahlborn and White 1990).	Y	Suitable habitat present.
San Francisco dusky-footed woodrat ( <i>Neotoma fuscipes annectens</i> )	Federal: None State: SSC	Found throughout the San Francisco Bay area in grasslands, scrub and wooded areas with evergreen / live oaks ( <i>Quercus</i> spp.) and other thick-leaved trees and shrubs. Houses are typically placed on the ground, against or straddling a log or exposed roots of a standing tree, and are often located in dense brush. Nests are also placed in the crotches and cavities of trees and in hollow logs. Sometimes arboreal nests are constructed but this behavior seems to be more common in habitat with evergreen / live oak trees (Kelly 1990).	N	Suitable habitat not present.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Big free-tailed bat ( <i>Nyctinomops macrotis</i> )	Federal: None State: SSC	Found in rugged, rocky terrain up to 8,000 feet in elevation in New Mexico, southern Arizona, and Texas where it is probably a yearlong resident. Rare in California, and probably does not breed in the state. Many individuals wander widely in autumn, resulting in records far out of the normal range. Records of the species are from urban areas of San Diego County and vagrants found in fall and winter. A probable vagrant was collected in Alameda County but this record is suspect (CWHR Program Staff 2002).	N	Suitable habitat not present within proposed project footprint of any focus areas.
Salt-marsh harvest mouse ( <i>Reithrodontomys raviventris</i> )	Federal: FE State: SE, FP	Salt and brackish marshes with dense stands of pickleweed ( <i>Salicornia pacifica</i> ) adjacent to upland, salt-tolerant vegetation in the San Francisco, San Pablo, and Suisun Bay areas (USFWS 2010).	Y	Suitable habitat present
Alameda Island mole ( <i>Scapanus latimanus parvus</i> )	Federal: None State: SSC	Known only from Alameda Island. Occurs in annual and perennial grassland, wet meadow, and a variety of open forest habitats (Hall 1981).	N	Suitable habitat not present within proposed project footprint of any focus areas.
Salt-marsh wandering shrew ( <i>Sorex vagrans halicoetes</i> )	Federal: None State: SSC	Based on available museum specimen records, occurred historically in salt marshes bordering the southern arm of the San Francisco Bay from San Pablo, south along the bay margin through Oakland, Hayward, and Alviso, then north through Palo Alto, Belmont, and South San Francisco. Currently, it is confined to small remnant stands of salt marsh found around the southern arm of the San Francisco Bay in San Mateo, Santa Clara, Alameda and Contra Costa counties (Bolster 1998).	N	Suitable habitat not present within proposed project footprint of any focus areas.
San Joaquin kit fox ( <i>Vulpes macrotis mutica</i> )	Federal: FE State: ST	The subspecies historically ranged in alkali scrub/shrub and arid grasslands throughout the level terrain of the San Joaquin Valley floor from southern Kern County north to Tracy in San Joaquin County, and up into more gradual slopes of the surrounding foothills and adjoining valleys of the interior Coast Range. Occurs in desert-like habitats characterized by sparse or absent shrub cover, sparse ground cover, and short vegetative structure. Prefers areas with open, level, sandy ground (USFWS 2010).	N	Suitable habitat/soils not present in the focus areas.

**Table A-2. Potential Special-Status Plants to Occur**

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
San Mateo thorn-mint ( <i>Acanthomintha duttonii</i> )	Federal: FE State: SE CNPS: 1B.1	Serpentine soils in chaparral and grassland. Elevation: 160–985 feet. Blooming period: April–June	N	Suitable habitat not present in the focus areas.
Franciscan onion ( <i>Allium peninsulare</i> var. <i>franciscanum</i> )	Federal: None State: None CNPS: 1B.2	Clay, volcanic, and serpentine soils in grassland and cismontane woodland. Elevation: 170–1,000 feet. Blooming period: April–June	N	Suitable habitat not present in the focus areas.
Large-flowered fiddleneck ( <i>Amsinckia grandiflora</i> )	Federal: FE State: SE CNPS: 1B.2	Cismontane woodland, grassland. Elevation: 885–1,805 feet. Blooming period: March–May	N	Suitable habitat not present in the focus areas
Bent-flowered fiddleneck ( <i>Amsinckia lunaris</i> )	Federal: None State: None CNPS: 1B.2	Coastal bluff scrub, cismontane woodland, and grassland. Elevation: 5–1,640 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
Anderson’s manzanita ( <i>Arctostaphylos andersonii</i> )	Federal: None State: None CNPS: 1B.2	Openings and edges of chaparral and broadleafed upland and north coast coniferous forests. Elevation: 195–2,495 feet. Blooming period: November–May	N	Suitable habitat not present in the focus areas.
Mount Diablo manzanita ( <i>Arctostaphylos auriculata</i> )	Federal: None State: None CNPS: 1B.3	Cismontane woodland and sandstone soils of chaparral. Elevation: 442–2,132 feet. Blooming period: January–March	N	Suitable habitat not present in the focus areas.
Contra Costa manzanita ( <i>Arctostaphylos manzanita</i> ssp. <i>laevigata</i> )	Federal: None State: None CNPS: 1B.2	Rocky soils in chaparral. Elevation: 1,410–3,610 feet. Blooming period: January–April	N	Focus areas below the known elevation range for this species.
Pallid manzanita ( <i>Arctostaphylos pallida</i> )	Federal: FT State: SE CNPS: 1B.1	Sandy, gravelly, or siliceous shale soils in chaparral, coastal scrub, cismontane woodland, and broadleafed upland and closed-cone coniferous forests. Elevation: 605–1,525 feet. Blooming period: December–March	N	Suitable habitat not present in the focus areas.
Kings Mountain manzanita ( <i>Arctostaphylos regismontana</i> )	Federal: None State: None CNPS: 1B.2	Granitic or sandstone soils in chaparral and broadleafed upland and north coast coniferous forests. Elevation: 1,000–2,395 feet. Blooming period: December–April	N	Focus areas below the known elevation range for this species.
Coastal marsh milk-vetch ( <i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i> )	Federal: None State: None CNPS: 1B.2	Coastal scrub, coastal salt marshes and swamps, and mesic coastal dunes. Elevation: 0–100 feet. Blooming period: (April) June–October	N	This species has not been documented in the East Bay Area (CNPS 2019).
Akali milk-vetch ( <i>Astragalus tener</i> var. <i>tener</i> )	Federal: None State: None CNPS: 1B.2	Alkaline soils in playas, adobe clay grassland, and vernal pools. Elevation: 0–195 feet. Blooming period: March–June	N	Suitable habitat/soils not present in the focus areas.
Brittlescale ( <i>Atriplex depressa</i> )	Federal: None State: None CNPS: 1B.2	Alkaline or clay soils in chenopod scrub, meadows, seeps, playas, vernal pools, and grassland. Elevation: 3–1,049 feet. Blooming period: April–October	N	Suitable habitat not present in the focus areas.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Lesser saltscale ( <i>Atriplex minuscula</i> )	Federal: None State: None CNPS: 1B.1	Alkaline and sandy soils in chenopod scrub, playas, and grassland. Elevation: 49–656 feet. Blooming period: May–October	N	Suitable habitat/soils not present in the focus areas.
Big-scale balsamroot ( <i>Balsamorhiza macrolepis</i> )	Federal: None State: None CNPS: 1B.2	Occasionally in serpentine soils in chaparral, cismontane woodland, and grassland. Elevation: 295–5,100 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
Mount Diablo fairy-lantern ( <i>Calochortus pulchellus</i> )	Federal: None State: None CNPS: 1B.2	Chaparral, cismontane woodland, riparian woodland, grassland. 98–2,755 feet. Blooming period: April–June	N	Suitable habitat not present in the focus areas.
Chaparral harebell ( <i>Campanula exigua</i> )	Federal: None State: None CNPS: 1B.2	Rocky, usually serpentine soils in chaparral. Elevation: 900–4,100 feet. Blooming period: May–June	N	Suitable habitat not present in the focus areas.
Bristly sedge ( <i>Carex comosa</i> )	Federal: None State: None CNPS: 2B.1	Coastal prairie, lake margins of marshes and swamps, grassland. Elevation: 0–2,050 feet. Blooming period: May–September	N	Suitable habitat not present in the focus areas.
Congdon's tarplant ( <i>Centromadia parryi</i> ssp. <i>congdonii</i> )	Federal: None State: None CNPS: 1B.1	Alkaline soils in grassland. Elevation: 0–755 feet. Blooming period: May–November	Y	Habitat for this species is present. Documented in 2003 within the Newark Junction focus area.
Point Reyes birds-beak ( <i>Chloropyrom maritimum</i> ssp. <i>palustre</i> )	Federal: None State: None CNPS: 1B.2	Coastal salt marshes and swamps. Elevation: 0–35 feet. Blooming period: June–October	N	Considered extirpated from the East Bay Area (CNPS 2019)
Palmate-bracted bird's-beak ( <i>Chloropyron palmatum</i> )	Federal: FE State: SE CNPS: 1B.1	Alkaline soils in chenopod scrub and grassland. Elevation: 15–510 feet. Blooming period: May–October	N	Suitable habitat/soils not present in the focus areas.
San Francisco Bay spineflower ( <i>Chorizanthe cuspidata</i> var. <i>cuspidata</i> )	Federal: None State: None CNPS: 1B.2	Sandy soil in coastal scrub, dunes, prairie, and bluff scrub. Elevation: 5–705 feet. April–August	N	Suitable habitat not present in the focus areas.
Robust spineflower ( <i>Chorizanthe robusta</i> var. <i>robusta</i> )	Federal: FE State: None CNPS: 1B.1	Sandy or gravelly soils in Maritime chaparral, coastal dunes and scrub, and openings of cismontane woodland. Elevation: 5–985 feet. Blooming period: April–September	N	Suitable habitat not present in the focus areas.
Crystal Springs fountain thistle ( <i>Cirsium fontinale</i> var. <i>fontinale</i> )	Federal: FE State: SE CNPS: 1B.1	Serpentine seeps in cismontane woodland, meadows, seeps, grassland, and openings of chaparral. Elevation: 145–575 feet. Blooming period: April–October	N	Suitable habitat not present in the focus areas.
Lost thistle ( <i>Cirsium praeteriens</i> )	Federal: None State: None CNPS: 1A	Only known from two collection records made in 1897 and 1901 in Palo Alto and is now presumed to be extinct. Based on available records this species is thought to have been related to the more widespread bird's nest thistle ( <i>Cirsium scariosum</i> ) (Jepson Flora Project 2020).	N	Outside known range for the species



Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Presidio clarkia ( <i>Clarkia franciscana</i> )	Federal: FE State: SE CNPS: 1B.1	Grassland with serpentine soils and coastal scrub. Elevation: 80–1,100 feet. Blooming period: May–July	N	Suitable habitat/soils not present in the focus areas.
Round-headed Chinese-houses ( <i>Collinsia corymbosa</i> )	Federal: None State: None CNPS: 1B.2	Coastal dunes. Elevation: 0–65 feet. Blooming period: April–June	N	Suitable habitat not present in the focus areas.
San Francisco collinsia ( <i>Collinsia multicolor</i> )	Federal: None State: None CNPS: 1B.2	Sometimes in serpentine soils in coastal scrub and closed-cone coniferous forest. Elevation: 95–820 feet. Blooming period: February–May	N	Suitable habitat not present in the focus areas.
Hospital Canyon larkspur ( <i>Delphinium californicum</i> ssp. <i>interius</i> )	Federal: None State: None CNPS: 1B.2	Coastal scrub, mesic soils in cismontane woodland, and openings of chaparral. Elevation: 635–3,595 feet. Blooming period: April–May	N	Suitable habitat not present in the focus areas.
Western leatherwood ( <i>Dirca occidentalis</i> )	Federal: None State: None CNPS: 1B.2	Mesic soils in broadleaf upland and riparian forests, closed-cone and north coast coniferous forests, chaparral, and cismontane and riparian woodlands. Elevation: 80–1,395 feet. Blooming period: January–April	N	Suitable habitat not present in the focus areas.
Tiburon buckwheat ( <i>Eriogonum luteolum</i> var. <i>caninum</i> )	Federal: None State: None CNPS: 1B.2	Serpentine, sandy, and gravelly soils in chaparral, cismontane woodland, coastal prairie, and grassland. Elevation: 0–2,295 feet. Blooming period: May–September	N	Suitable habitat not present in the focus areas.
Mt. Diablo buckwheat ( <i>Eriogonum truncatum</i> )	Federal: None State: None CNPS: 1B.1	Sandy soils in chaparral, coastal scrub, and grassland. Elevation: 5–1,150 feet. Blooming period: April–September (November and December)	N	Suitable habitat not present in the focus areas.
San Mateo woolly sunflower ( <i>Eriophyllum latilobum</i> )	Federal: FE State: SE CNPS: 1B.1	Lower montane coniferous forest, coastal scrub, and serpentine soils on roadcuts in cismontane woodland. Elevation: 145–1,085 feet. Blooming period: May–June	N	Suitable habitat not present in the focus areas.
Hoover's button-celery ( <i>Eryngium aristulatum</i> var. <i>hooveri</i> )	Federal: None State: None CNPS: 1B.1	Vernal pools. Elevation: 9–147 feet. Blooming period: July–August	N	Suitable habitat not present in the focus areas.
Jepson's coyote thistle ( <i>Eryngium jepsonii</i> )	Federal: None State: None CNPS: 1B.2	Clay soil in vernal pools and grassland. Elevation: 5–985 feet. Blooming period: April–August	N	Suitable habitat not present in the focus areas.
San Joaquin spearscale ( <i>Extriplex joaquinana</i> )	Federal: None State: None CNPS: 1B.2	Alkaline soils in chenopod scrub, meadows, seeps, playas, and grassland. Elevation: 0–2,740 feet. Blooming period: April–October (synonym of <i>Atriplex joaquiniana</i> )	N	Suitable habitat/soils not present in the focus areas.
Minute pocket moss ( <i>Fissidens pauperculus</i> )	Federal: None State: None CNPS: 1B.2	Damp soil in north coast coniferous forest. Elevation: 30–3,360 feet.	N	Suitable habitat not present in the focus areas.
Hillsborough chocolate lily ( <i>Fritillaria biflora</i> var. <i>ineziana</i> )	Federal: None State: None CNPS: 1B.1	Serpentine soils in cismontane woodland and grassland. Elevation: 490 feet. Blooming period: March–April	N	Suitable habitat not present in the focus areas.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Fragrant fritillary ( <i>Fritillaria liliacea</i> )	Federal: None State: None CNPS: 1B.2	Often in serpentine soils in cismontane woodland, grassland, coastal prairie and scrub. Elevation: 5–1,345 feet. Blooming period: February–April	N	Suitable habitat not present in the focus areas.
Blue coast gilia ( <i>Gilia capitata</i> ssp. <i>chamissonis</i> )	Federal: None State: None CNPS: 1B.1	Coastal dunes and scrub. Elevation: 5–655 feet. Blooming period: April–July	N	Suitable habitat not present in the focus areas.
Dark-eyed gilia ( <i>Gilia millefoliata</i> )	Federal: None State: None CNPS: 1B.2	Coastal dunes. Elevation: 5–100 feet. Blooming period: April–July	N	Suitable habitat not present in the focus areas.
Diablo helianthella ( <i>Helianthella castanea</i> )	Federal: None State: None CNPS: 1B.2	Usually rocky, axonal soils, often in partial shade of broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, and grassland. Elevation: 197–4,265 feet. Blooming period: March–June	N	Suitable habitat/soils not present in the focus areas.
Congested-headed hayfield tarplant ( <i>Hemizonia congesta</i> ssp. <i>congesta</i> )	Federal: None State: None CNPS: 1B.2	Sometimes along roadsides in grassland. Elevation: 65–1,835 feet. Blooming period: April–November	N	Suitable habitat not present in the focus areas.
Short-leaved evax ( <i>Hesperovax sparsiflora</i> var. <i>brevifolia</i> )	Federal: None State: None CNPS: 1B.2	Coastal dunes, prairie, and bluff scrub in sandy soil. Elevation: 0–705 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
Brewer's western flax ( <i>Hesperolinon breweri</i> )	Federal: None State: None CNPS: 1B.2	Usually serpentinite, chaparral, cismontane woodland, grassland. Elevation: 98–3,100 feet. Blooming period: May–July	N	Suitable habitat/soils not present in the focus areas.
Marin western flax ( <i>Hesperolinon congestum</i> )	Federal: FT State: ST CNPS: 1B.1	Serpentine soils in chaparral and grassland. Elevation: 15–1,215 feet. Blooming period: April–July	N	Suitable habitat/soils not present in the focus areas.
Water star-grass ( <i>Heteranthera dubia</i> )	Federal: None State: None CNPS: 2B.2	Slightly eutrophic waters with a pH of 7 or above in marshes and swamps that are no more than slowly moving. Elevation: 95–4,905 feet. Blooming period: July–October	N	Suitable habitat not present in the focus areas.
Loma Prieta hoita ( <i>Hoita strobilina</i> )	Federal: None State: None CNPS: 1B.1	Usually serpentinite, mesic areas in chaparral, cismontane woodland, and riparian woodland. Elevation: 98–2,851 feet. Blooming period: May–October	N	Suitable habitat/soils not present in the focus areas.
Santa Cruz tarplant ( <i>Holocarpha macradenia</i> )	Federal: FT State: SE CNPS: 1B.1	Often clay or sandy soils in coastal prairie, scrub, and grassland. Elevation: 30–720 feet. Blooming period: June–October	N	Suitable habitat not present in the focus areas.
Kellogg's horkelia ( <i>Horkelia cuneata</i> var. <i>sericea</i> )	Federal: None State: None CNPS: 1B.1	Sandy or gravelly soils in openings of Maritime chaparral, coastal dunes and scrub, and closed-cone coniferous forest. Elevation: 30–655 feet. Blooming period: April–September	N	Suitable habitat not present in the focus areas.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Contra Costa goldfields ( <i>Lasthenia conjugens</i> )	Federal: FE State: None CNPS: 1B.1	Mesic soils in vernal pools, grassland, alkaline playas, and cismontane woodland. Elevation: 0–1,540 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
Beach layia ( <i>Layia carnosa</i> )	Federal: FE State: SE CNPS: 1B.1	Coastal dunes and coastal scrub with sandy soil. Elevation: 0–195 feet. Blooming period: March–July	N	Suitable habitat not present in the focus areas.
Rose leptosiphon ( <i>Leptosiphon rosaceus</i> )	Federal: None State: None CNPS: 1B.1	Coastal bluff scrub. Elevation: 0–330 feet. Blooming period: April–July	N	Suitable habitat not present in the focus areas.
Crystal Springs lessingia ( <i>Lessingia arachnoidea</i> )	Federal: None State: None CNPS: 1B.2	Serpentine soils, often on roadsides, in cismontane woodland, coastal scrub, and grassland. Elevation: 195–655 feet. Blooming period: July–October	N	Suitable habitat/soils not present in the focus areas.
Arcuate bush-mallow ( <i>Malacothamnus arcuatus</i> )	Federal: None State: None CNPS: 1B.2	Chaparral and cismontane woodland. Elevation: 45–1,165 feet. Blooming period: April–September	N	Suitable habitat not present in the focus areas.
Hall's bush-mallow ( <i>Malacothamnus hallii</i> )	Federal: None State: None CNPS: 1B.2	Chaparral and coastal scrub. Elevation: 30–2,495 feet. Blooming period: April–October	N	Suitable habitat not present in the focus areas.
Oregon meconella ( <i>Meconella oregana</i> )	Federal: None State: None CNPS: 1B.1	Coastal scrub and prairie. Elevation: 820–2,035 feet. Blooming period: March–April	N	Suitable habitat not present in the focus areas.
Woodland woollythreads ( <i>Monolopia gracilens</i> )	Federal: None State: None CNPS: 1B.2	Serpentine soils in the openings of chaparral and broadleafed upland and north coast coniferous forests, grassland, and cismontane woodland. Elevation: 325–3,935 feet. Blooming period: February–July	N	Suitable habitat not present in the focus areas.
Prostrate vernal pool navarretia ( <i>Navarretia prostrata</i> )	Federal: None State: None CNPS: 1B.1	Mesic coastal scrub, meadows and seeps, alkaline grassland, and vernal pools. Elevation: 49–3,968 feet. Blooming period: April–July	N	Suitable habitat/soils not present in the focus areas.
White-rayed pentachaeta ( <i>Pentachaeta bellidiflora</i> )	Federal: FE State: SE CNPS: 1B.1	Cismontane woodland and grassland with serpentine soils. Elevation: 110–2,035 feet. Blooming period: March–May	N	Suitable habitat not present in the focus areas.
Mt. Diablo phacelia ( <i>Phacelia phacelioides</i> )	Federal: None State: None CNPS: 1B.2	Rocky soils chaparral and cismontane woodland. Elevation: 1,640–4,495 feet. Blooming period: April–May	N	Focus areas below the known elevation range for this species.
Choris' popcornflower ( <i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i> )	Federal: None State: None CNPS: 1B.2	Mesic soils in chaparral and coastal prairie and scrub. Elevation: 5–525 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
San Francisco popcornflower ( <i>Plagiobothrys diffuses</i> )	Federal: None State: SE CNPS: 1B.1	Coastal prairie and grassland. Elevation: 195–1,180 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
Hairless popcornflower ( <i>Plagiobothrys glaber</i> )	Federal: None State: None CNPS: 1A	Alkaline soils in meadows and seeps and coastal salt marshes and swamps. Elevation: 45–590 feet. Blooming period: March–May	N	This species is considered extirpated from California.
Oregon polemonium ( <i>Polemonium carneum</i> )	Federal: None State: None CNPS: 2B.2	Coastal prairie and scrub and lower montane coniferous forest. Elevation: 0–6,005 feet. Blooming period: April–September	N	No suitable habitat within the 5 focus areas.
California akali grass ( <i>Puccinellia simplex</i> )	Federal: None State: None CNPS: 1B.2	Alkaline and vernal mesic soils in sinks, flats, and lake margins of chenopod scrub, meadows, seeps, grassland, and vernal pools. Elevation: 5–3,050 feet. Blooming period: March–May	N	Suitable habitat not present in the focus areas.
Adobe sanicle ( <i>Sanicula maritima</i> )	Federal: None State: SR CNPS: 1B.1	Clay and serpentine soils in chaparral, coastal prairie, meadows, seeps, and grassland. Elevation: 95–785 feet. Blooming period: February–May	N	Suitable habitat not present in the focus areas.
Chaparral ragwort ( <i>Senecio aphanactis</i> )	Federal: None State: None CNPS: 2B.2	Chaparral, cismontane woodland, coastal scrub, and alkaline flats. Elevation: 49–2,624 feet. Blooming period: January–April	N	Suitable habitat/soils not present in the focus areas.
San Francisco campion ( <i>Silene verecunda</i> ssp. <i>verecunda</i> )	Federal: None State: None CNPS: 1B.2	Sandy soil in coastal scrub, prairie, and bluff scrub and grassland. Elevation: 95–2,115 feet. Blooming period: February–June (August)	N	Suitable habitat not present in the focus areas.
Long-styled sand-spurrey ( <i>Spergularia macrotheca</i> var. <i>longisilya</i> )	Federal: None State: None CNPS: 1B.2	Alkaline soils in meadows, seeps, marshes and swamps. Elevation: 0–835 feet. Blooming period: February–May	N	Suitable habitat/soils not present in the focus areas.
Most beautiful jewelflower ( <i>Streptanthus albidus</i> ssp. <i>peramoenus</i> )	Federal: None State: None CNPS: 1B.2	Serpentine in chaparral, cismontane woodland, grassland. Elevation: 311–3,281 feet. Blooming period: March–October	N	Suitable habitat/soils not present in the focus areas.
Mt. Diablo jewelflower ( <i>Streptanthus hispidus</i> )	Federal: None State: None CNPS: 1B.3	Rocky soils in chaparral and grassland. Elevation: 1,195–3,935 feet. Blooming period: March–June	N	Suitable habitat not present in the focus areas.
Slender-leaved pondweed ( <i>Stuckenia filiformis</i> ssp. <i>alpine</i> )	Federal: None State: None CNPS: 2B.2	Shallow freshwater marshes and swamps. Elevation: 980–7,055 feet. Blooming period: May–July	N	Suitable habitat not present in the focus areas.
California seablite ( <i>Suaeda californica</i> )	Federal: FE State: None CNPS: 1B.1	Coastal salt marshes and swamps. Elevation: 0–50 feet. Blooming period: July–October	Y	Suitable present.
Two-fork clover ( <i>Trifolium amoenum</i> )	Federal: FE State: None CNPS: 1B.1	Coastal bluff scrub and grassland that sometimes have serpentine soils. Elevation: 15–1,360 feet. Blooming period: April–June.	N	Suitable habitat not present in the focus areas.
Saline clover ( <i>Trifolium hydrophilum</i> )	Federal: None State: None CNPS: 1B.2	Marshes, swamps, vernal pools, and grassland with mesic or alkaline soils. Elevation: 0–985 feet. Blooming period: April–June	N	Suitable habitat not present in the proposed project footprints.

Species	Sensitivity Status <sup>1</sup>	Habitat Characteristics	Potential for Occurrence	Rationale
San Francisco owl's-clover ( <i>Triphysaria floribunda</i> )	Federal: None State: None CNPS: 1B.2	Usually serpentine soils in coastal prairie and scrub and grassland. Elevation: 30–525 feet. Blooming period: April–June	N	Suitable habitat/soils not present in the focus areas.
Coastal triquetrella ( <i>Triquetrella californica</i> )	Federal: None State: None CNPS: 1B.2	Coastal scrub and bluff scrub. Elevation: 30–330 feet.	N	Suitable habitat not present in the focus areas.
Caper-fruited tropidocarpum ( <i>Tropidocarpum capparideum</i> )	Federal: None State: None CNPS: 1B.1	Alkaline hills in grassland. Elevation: 3–1,493 feet. Blooming period: March–April	N	Suitable habitat/soils not present in the focus areas.
Oval-leaved viburnum ( <i>Viburnum ellipticum</i> )	Federal: None State: None CNPS: 2B.3	Chaparral, cismontane woodland, lower montane coniferous forest. Elevation: 705–4,595 feet. Blooming period: May–June	N	Suitable habitat not present in the focus areas.

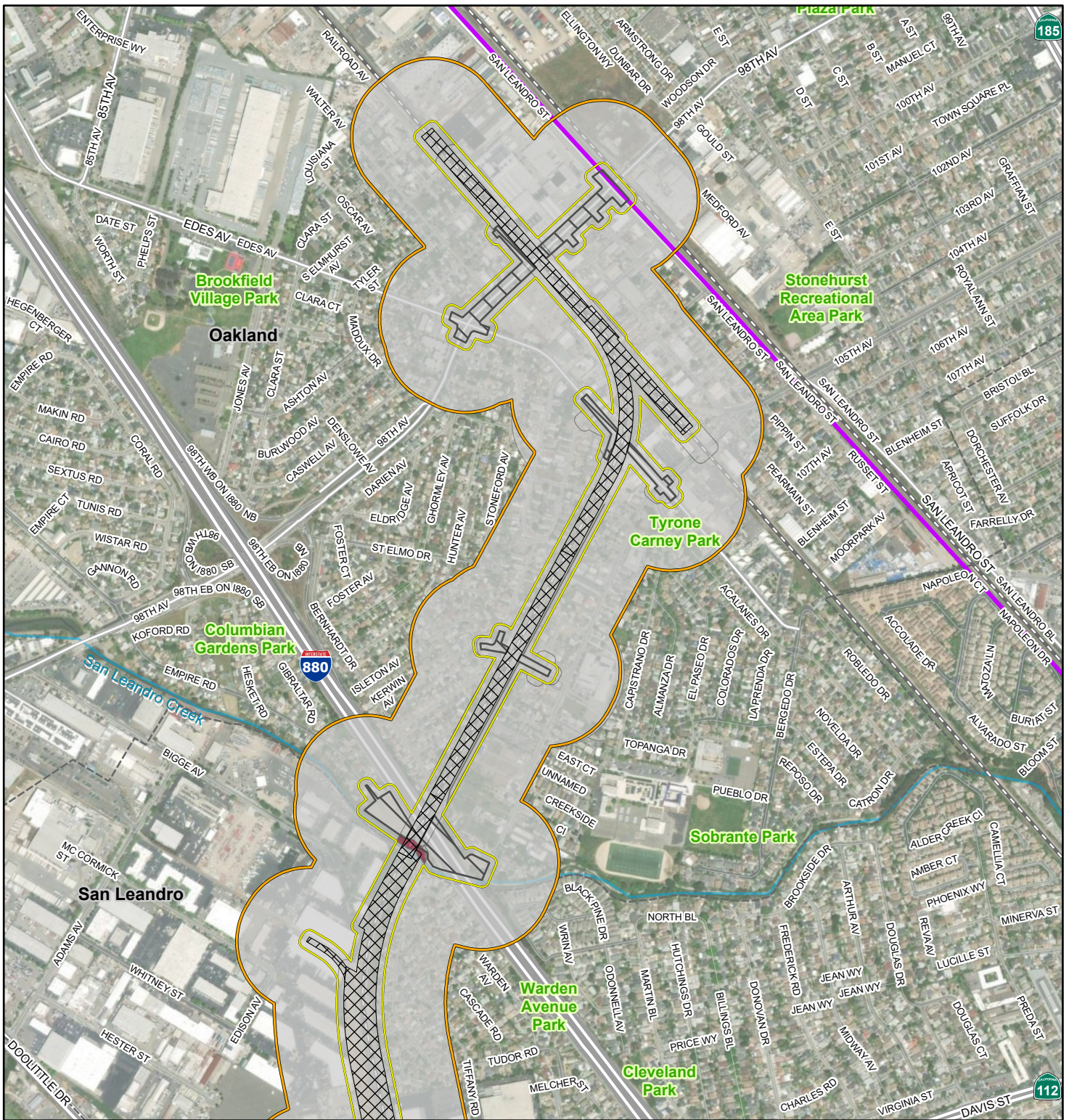
CNPS Ranking System (CNPS 2011): List 1A- Plants Presumed Extinct in California; List 1B- Plants Rare, Threatened, or Endangered in California and Elsewhere ; List 2- Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere; List 3- Plants About Which We Need More Information - A Review List; List 4- Plants of Limited Distribution - A Watch List.

Threat Ranks (e.g., 1.2)

- 0.1-Seriously threatened in California (high degree/immediacy of threat)
- 0.2-Fairly threatened in California (moderate degree/immediacy of threat)
- 0.3-Not very threatened in California (low degree/immediacy of threats or no current threats known)

## Attachment 2

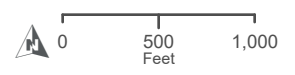
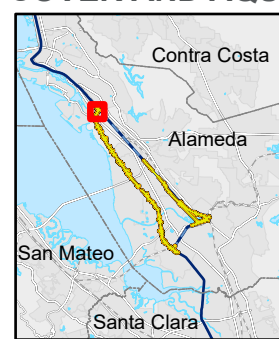
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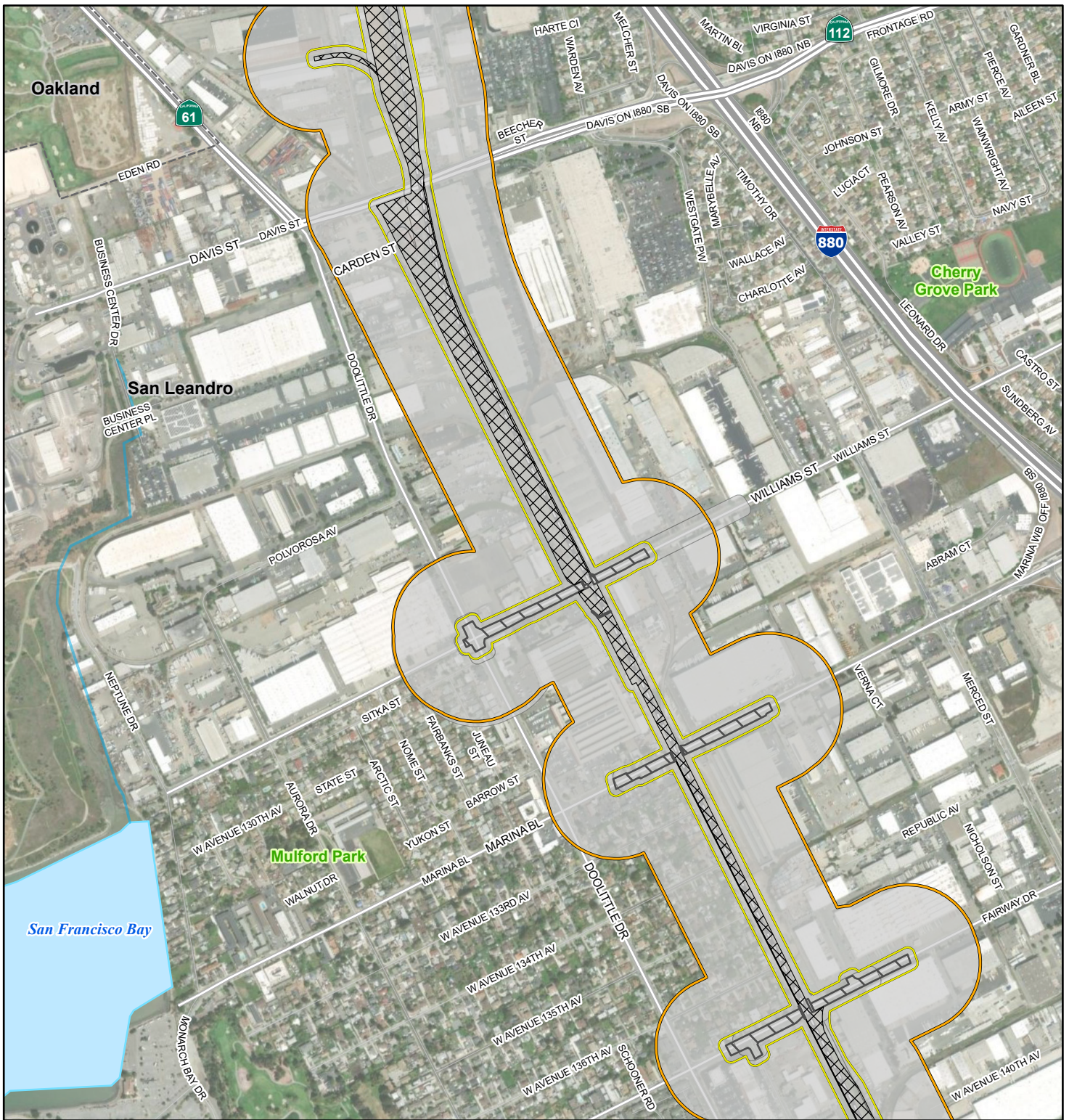
- Biological RSA
  - Aquatic RSA
  - Station where Capitol Corridor (CC) Service to be Discontinued
  - Proposed Ardenwood Rail Station and Park & Ride
  - Permanent
  - Temporary
  - Utility Impacts
  - BART Alignment
  - Railroad
- 
- Land Cover and CWHR Vegetation Communities
- Estuarine
  - Riverine
  - Urban (URB)










## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT




DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



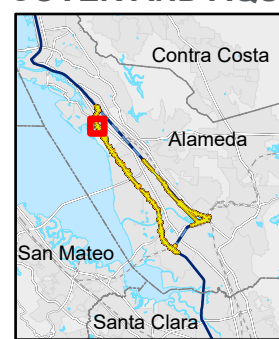
-  Biological RSA
-  Aquatic RSA
-  Station where Capitol Corridor (CC) Service to be Discontinued
-  Proposed Ardenwood Rail Station and Park & Ride
-  Permanent
-  Temporary
-  Utility Impacts
-  BART Alignment
-  Railroad

Land Cover and CWHR Vegetation Communities

-  Urban (URB)

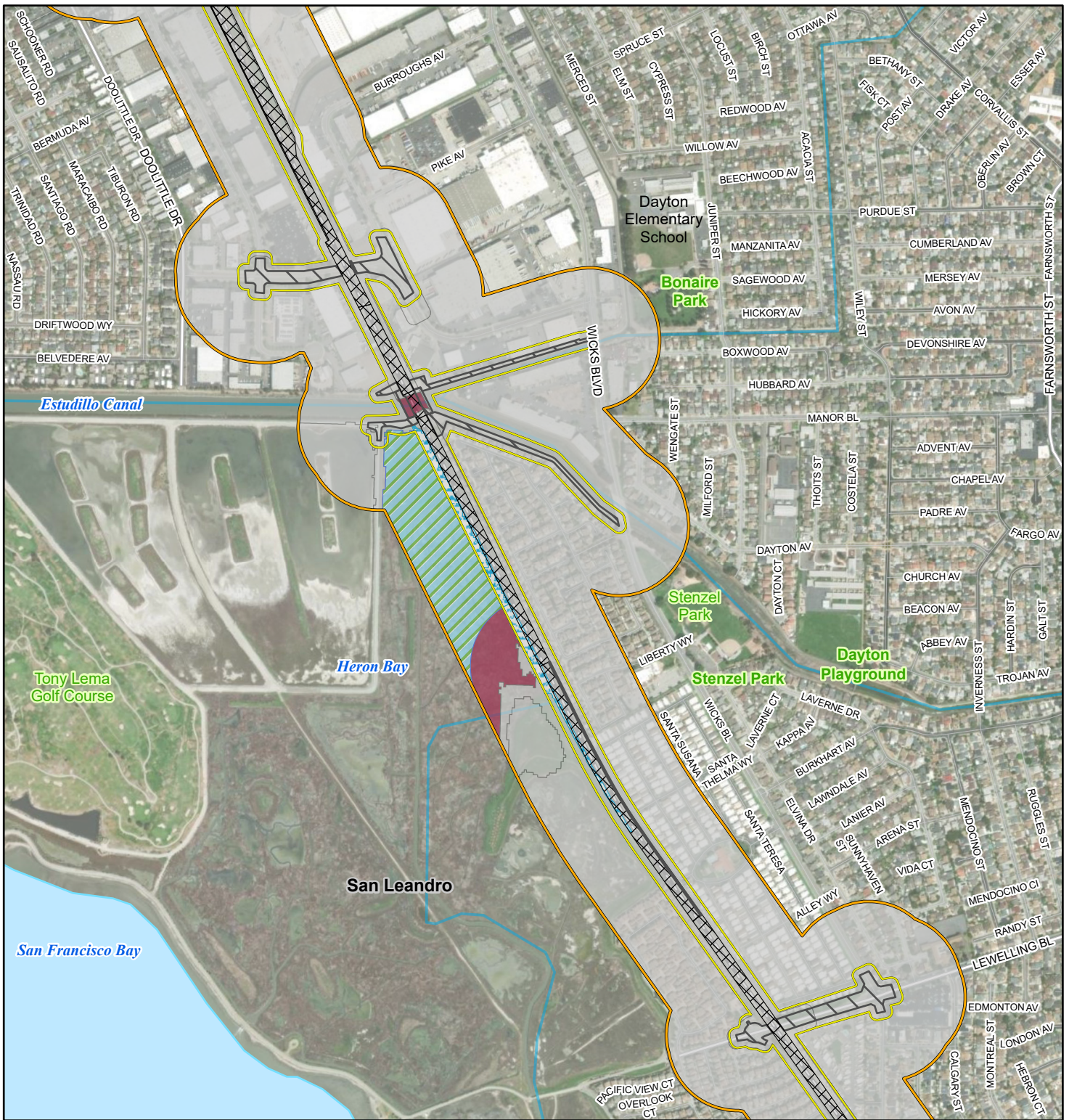
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

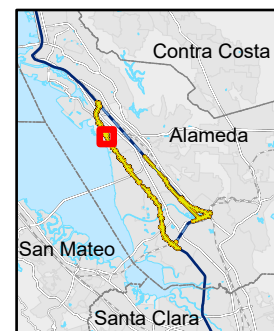




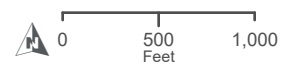
- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
- Utility Impacts
- BART Alignment
- Railroad

- Land Cover and CWHR Vegetation Communities**
- Estuarine
  - Freshwater Emergent Wetland (EM)
  - Saline Emergent Wetland (SEW)
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

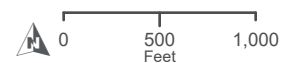
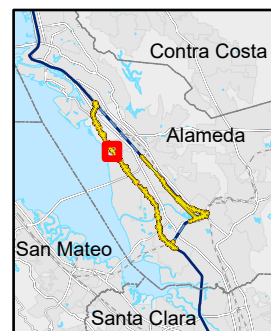


- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
- Utility Impacts
- BART Alignment
- Railroad

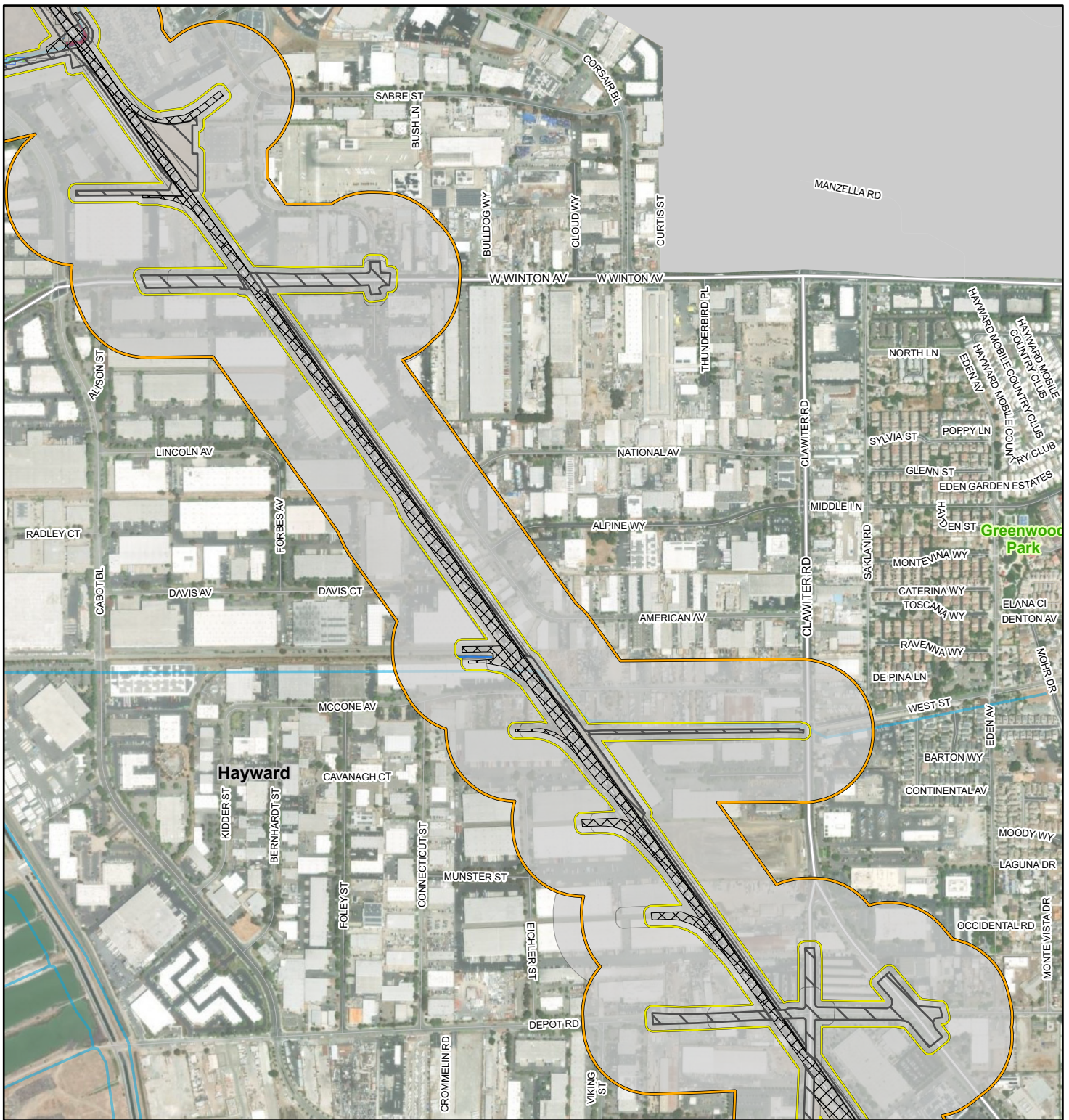
- Land Cover and CWHR Vegetation Communities
- California Annual Grassland (AGS)
  - Estuarine
  - Freshwater Emergent Wetland (EM)
  - Lacustrine (LAC)
  - Mixed Riparian Forest
  - Riverine
  - Saline Emergent Wetland (SEW)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



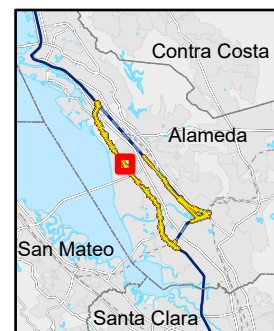
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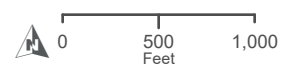
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- Railroad

- Land Cover and CWHR Vegetation Communities
- Estuarine
  - Freshwater Emergent Wetland (EM)
  - Riverine
  - Urban (URB)

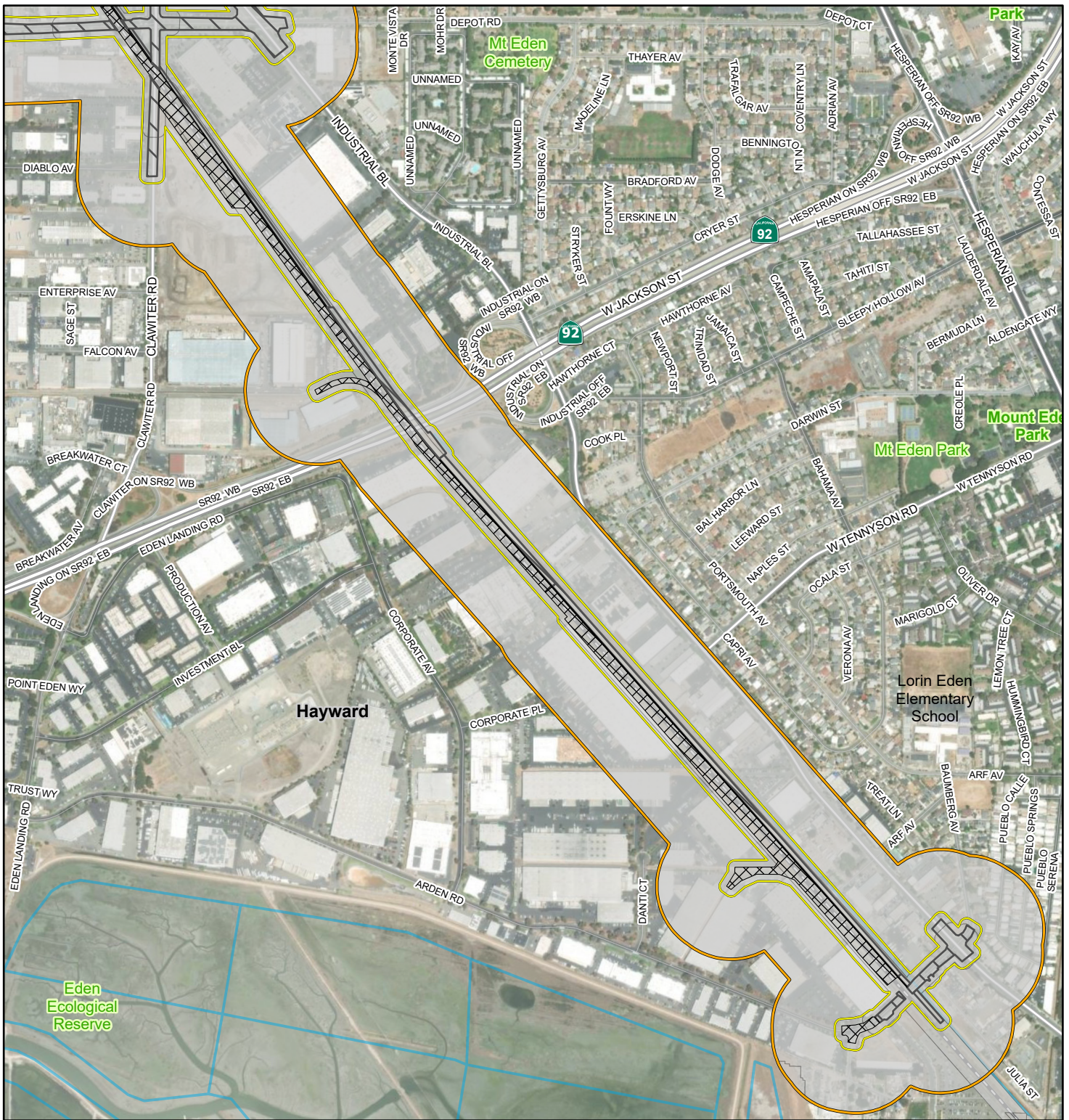
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

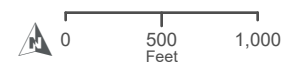


- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
- Utility Impacts
- BART Alignment
- Railroad

- Land Cover and CWHR Vegetation Communities
- Riverine
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



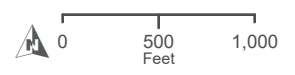
- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
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- Utility Impacts
- BART Alignment
- Railroad

- Land Cover and CWHR Vegetation Communities
- California Annual Grassland (AGS)
  - Estuarine
  - Freshwater Emergent Wetland (EM)
  - Ruderal
  - Urban (URB)

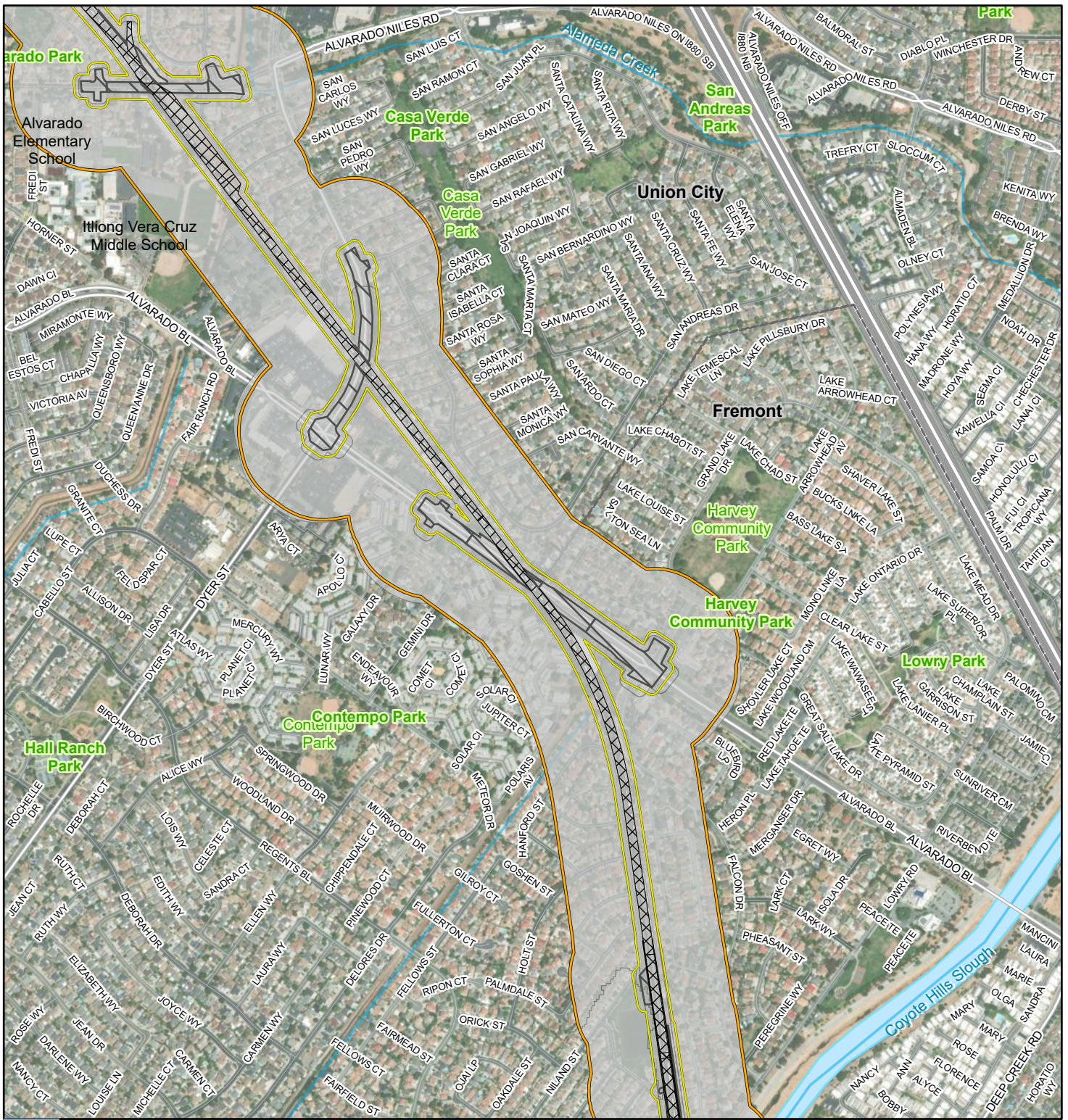
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



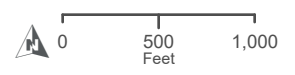
DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



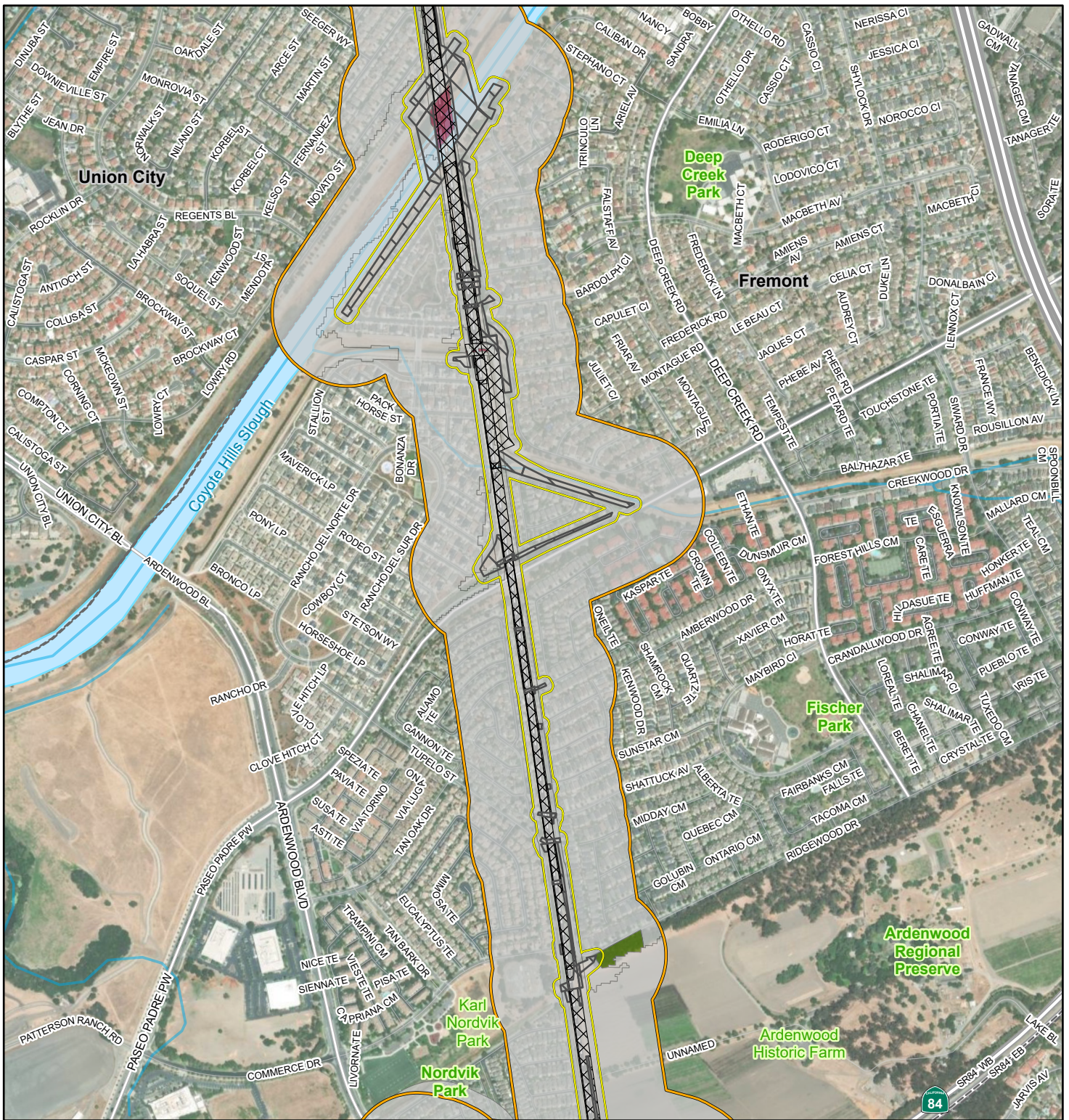
- Biological RSA
  - Aquatic RSA
  - Station where Capitol Corridor (CC) Service to be Discontinued
  - Proposed Ardenwood Rail Station and Park & Ride
  - Permanent
  - Temporary
  - Utility Impacts
  - BART Alignment
  - Railroad
- Land Cover and CWHR Vegetation Communities**
- Estuarine
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

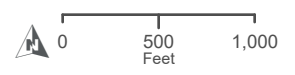


- |  |   |
|--|---|
| Biological RSA   | <b>Land Cover and CWHR Vegetation Communities</b> |
| Aquatic RSA  | Estuarine   |
| Station where Capitol Corridor (CC) Service to be Discontinued | Eucalyptus (EUC)                                  |
| Proposed Ardenwood Rail Station and Park & Ride                | Urban (URB)                                       |
| Permanent  |   |
| Temporary  |   |
| Utility Impacts  |   |
| BART Alignment   |   |
| Railroad   |   |

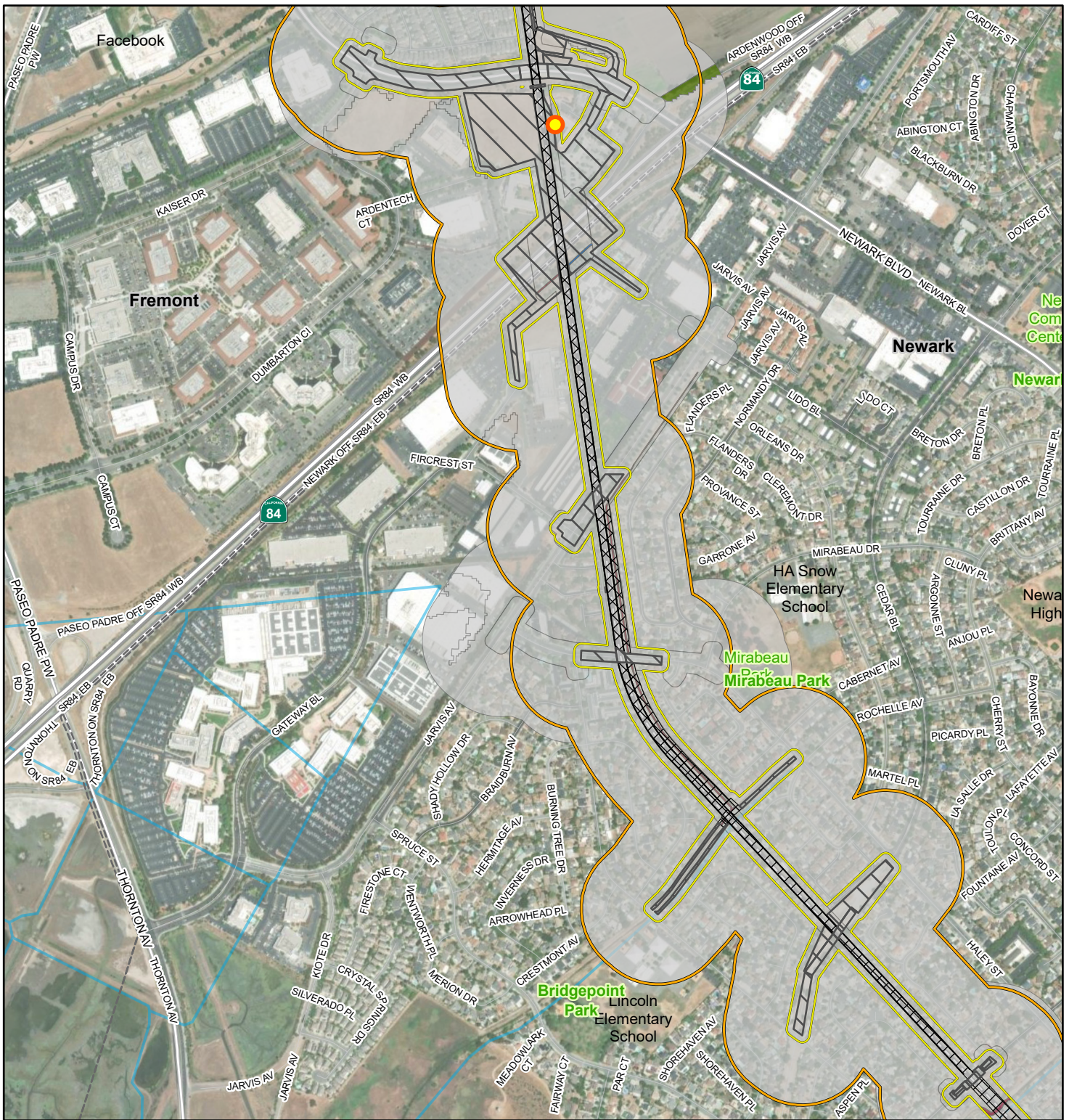
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



Biological RSA

Aquatic RSA



Station where Capitol Corridor (CC) Service to be Discontinued



Proposed Ardenwood Rail Station and Park & Ride

Permanent

Temporary

Utility Impacts

BART Alignment

Railroad

Land Cover and CWHR Vegetation Communities

Estuarine

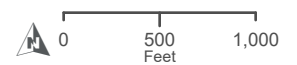
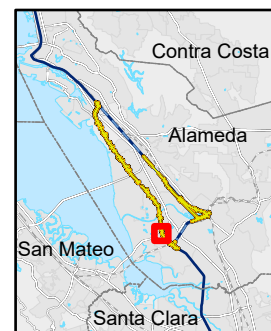
Eucalyptus (EUC)

Riverine

Urban (URB)

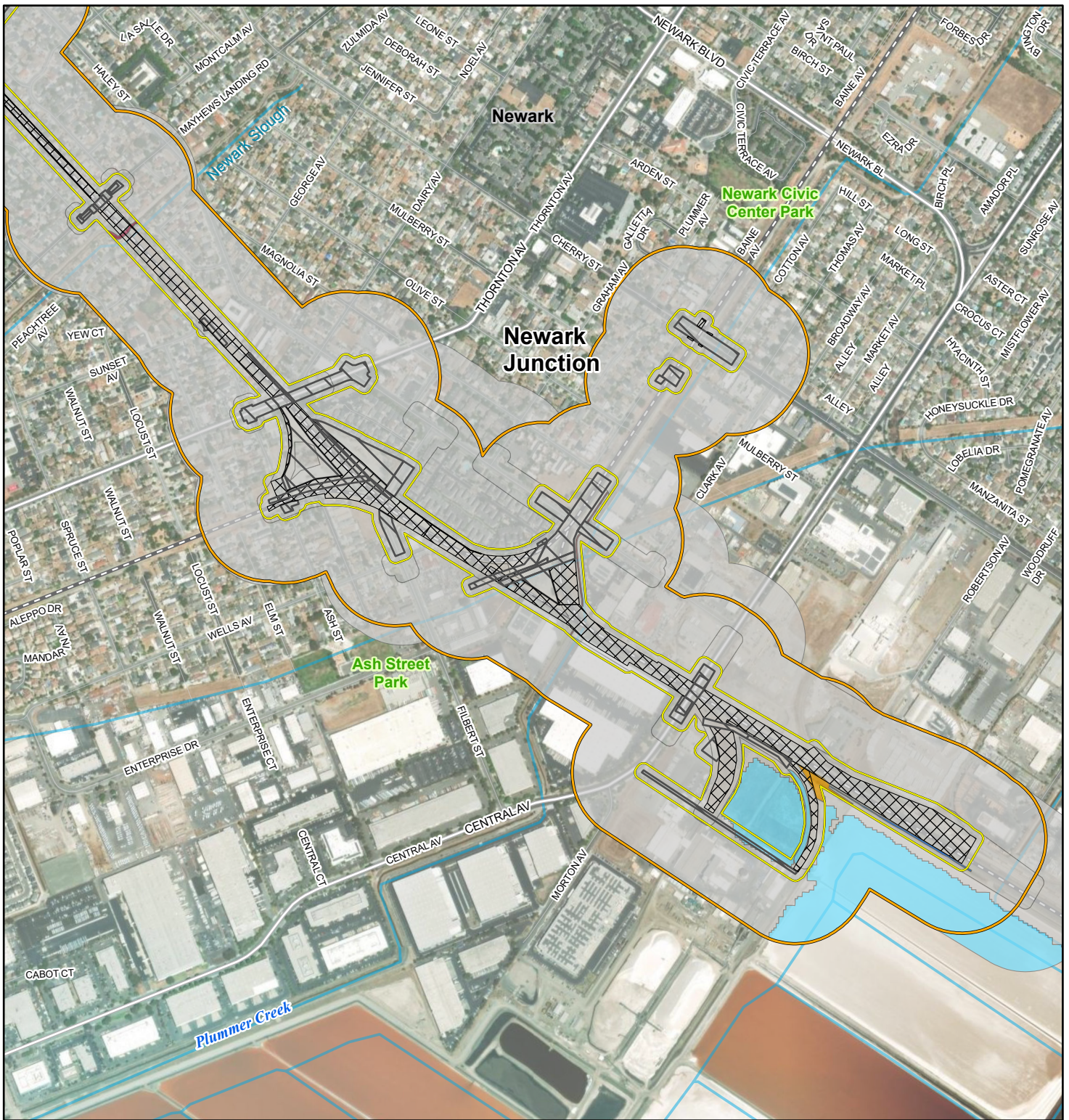
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



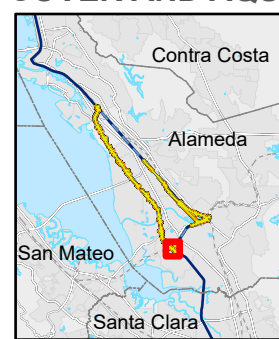
DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



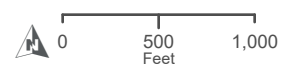


- |  |   |
|--|---|
| Biological RSA   | <b>Land Cover and CWHR Vegetation Communities</b> |
| Aquatic RSA  | Estuarine   |
| Station where Capitol Corridor (CC) Service to be Discontinued | Lacustrine (LAC)                                  |
| Proposed Ardenwood Rail Station and Park & Ride                | Riverine  |
| Permanent  | Ruderal   |
| Temporary  | Urban (URB)                                       |
| Utility Impacts  |   |
| BART Alignment   |   |
| Railroad   |   |

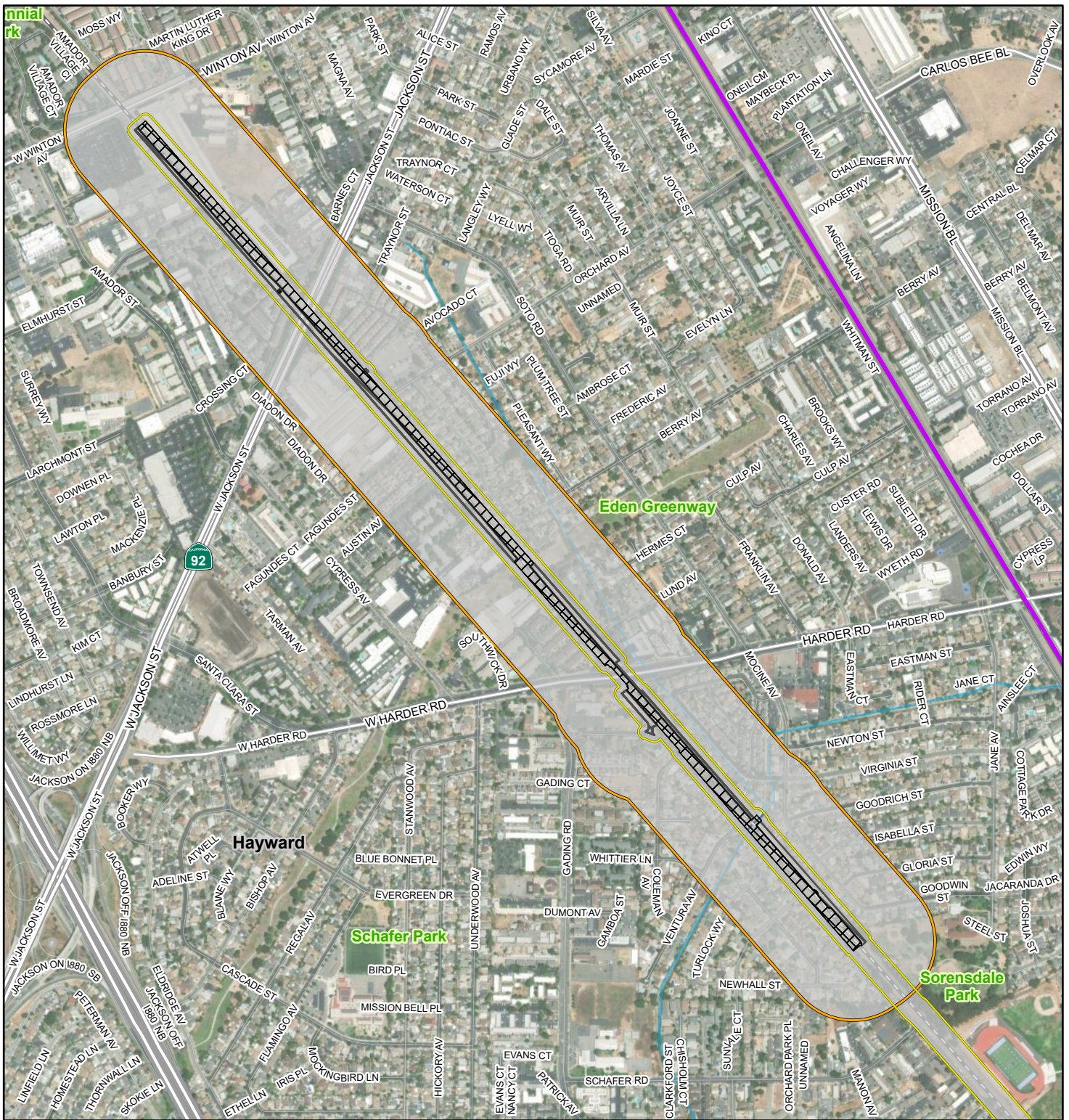
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



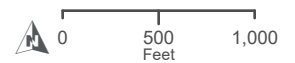
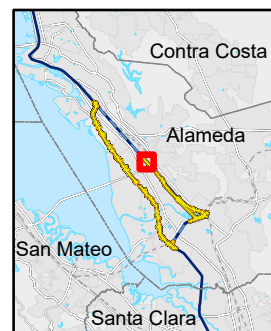
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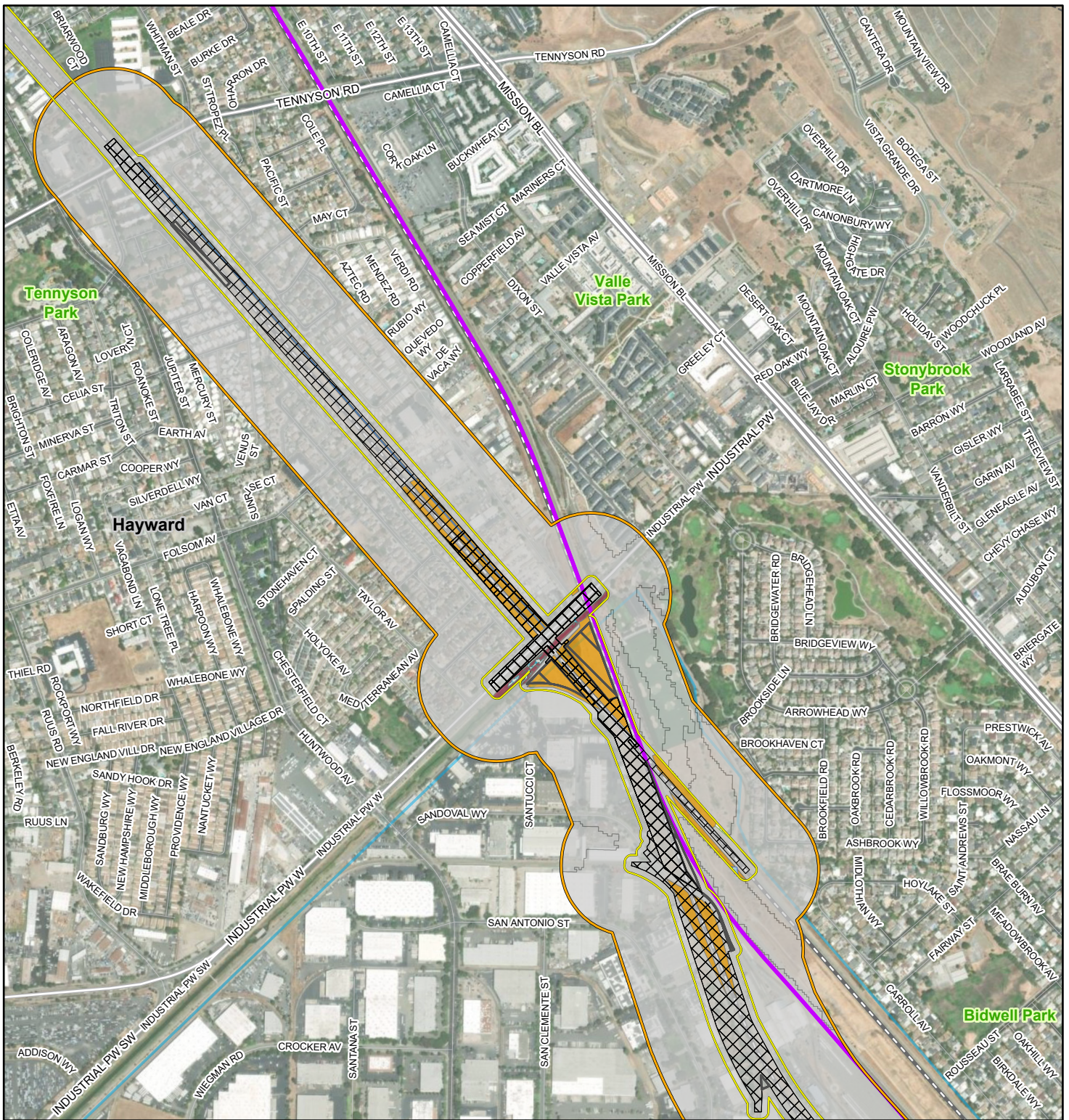
- Biological RSA
  - Aquatic RSA
  - Station where Capitol Corridor (CC) Service to be Discontinued
  - Proposed Ardenwood Rail Station and Park & Ride
  - Permanent
  - Temporary
  - Utility Impacts
  - BART Alignment
  - Railroad
- Land Cover and CWHR Vegetation Communities
- Riverine
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

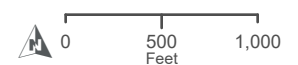


- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
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- BART Alignment
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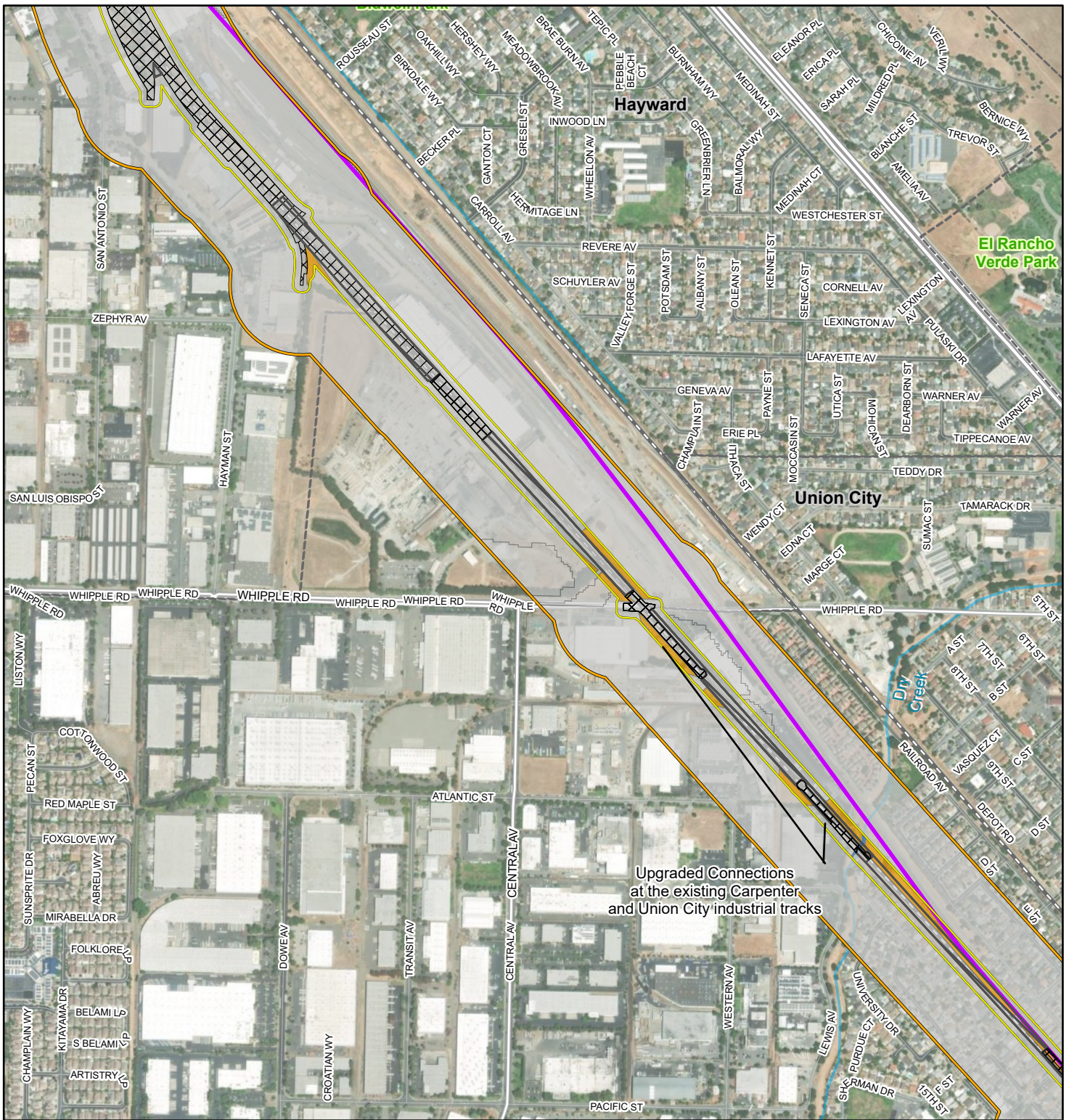
- Land Cover and CWHR Vegetation Communities
- Coastal Oak Woodland (COW)
  - Estuarine
  - Freshwater Emergent Wetland (EM)
  - Riverine
  - Ruderal
  - Saline Emergent Wetland (SEW)
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT

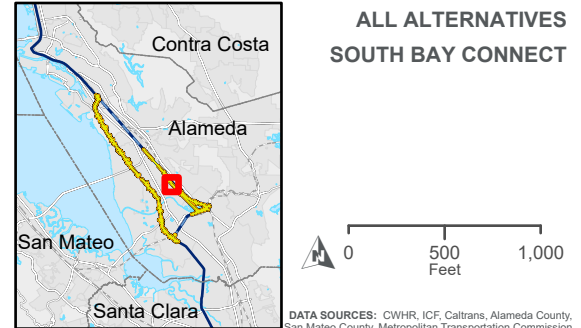


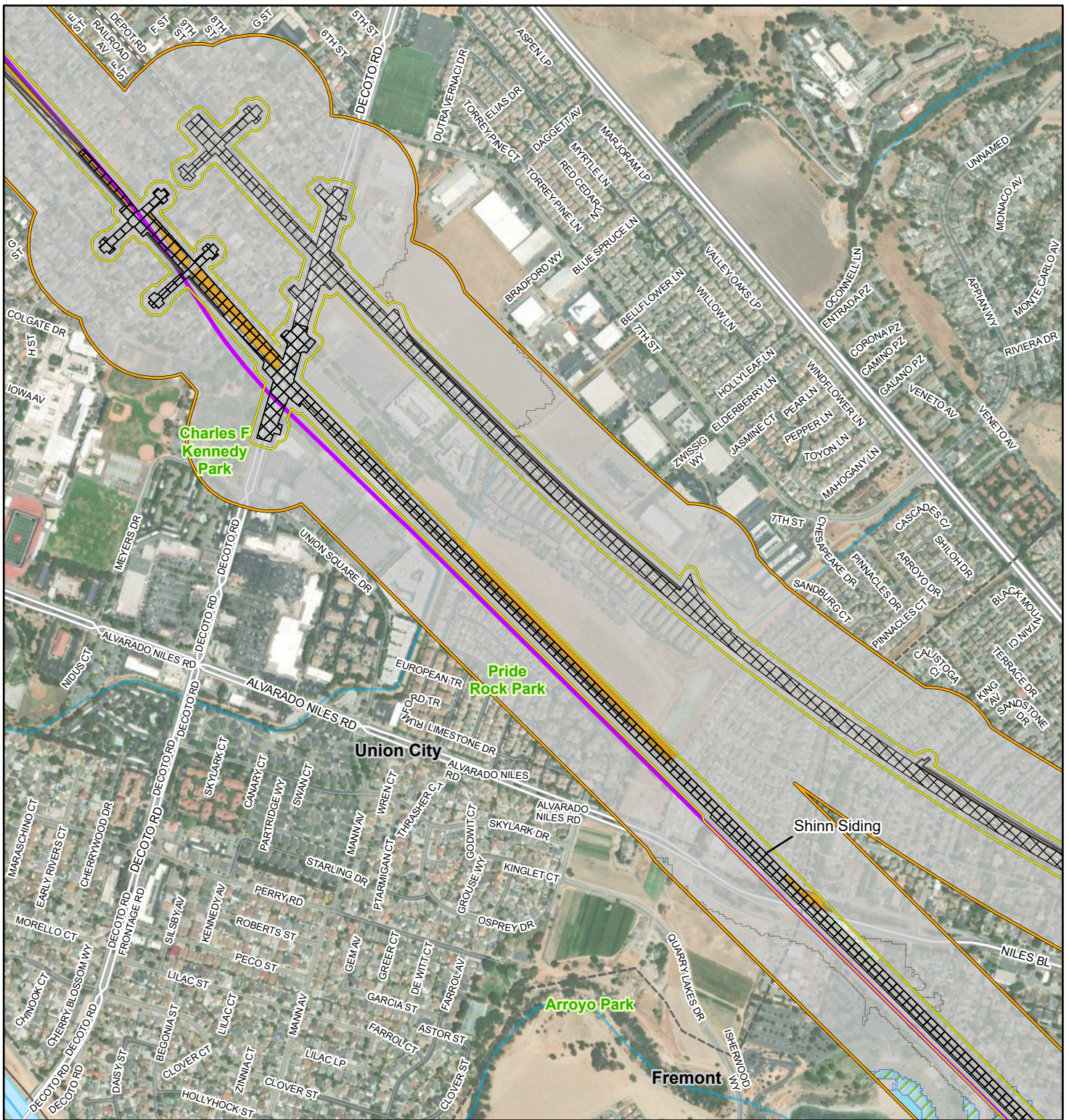
DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



- Biological RSA
  - Aquatic RSA
  - Station where Capitol Corridor (CC) Service to be Discontinued
  - Proposed Ardenwood Rail Station and Park & Ride
  - Permanent
  - Temporary
  - Utility Impacts
  - BART Alignment
  - Railroad
- 
- Land Cover and CWHR Vegetation Communities**
  - Riverine
  - Ruderal
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES





Biological RSA

Aquatic RSA

Station where Capitol Corridor (CC) Service to be Discontinued

Proposed Ardenwood Rail Station and Park & Ride

Permanent

Temporary

Utility Impacts

BART Alignment

Railroad

Land Cover and CWHR Vegetation Communities

Coastal Oak Woodland (COW)

Freshwater Emergent Wetland (EM)

Lacustrine (LAC)

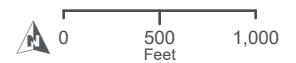
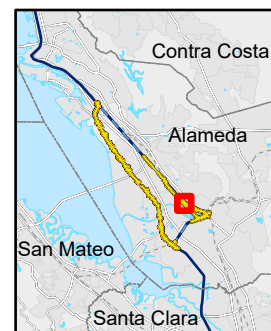
Riverine

Ruderal

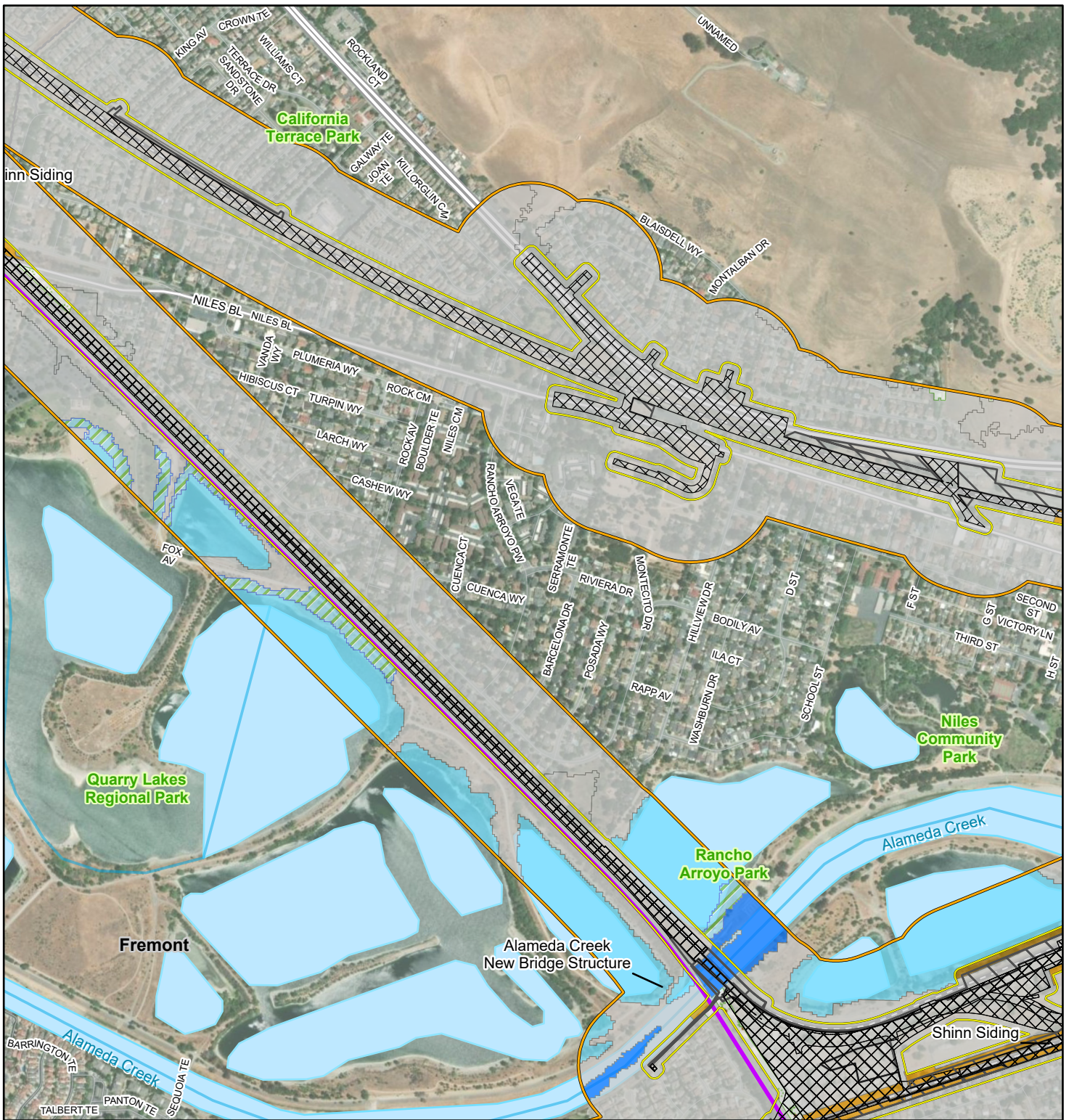
Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



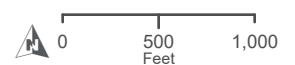
- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
- Utility Impacts
- BART Alignment
- Railroad

- Land Cover and CWHR Vegetation Communities
- Coastal Oak Woodland (COW)
  - Freshwater Emergent Wetland (EM)
  - Lacustrine (LAC)
  - Mixed Riparian Forest
  - Riverine
  - Ruderal
  - Urban (URB)

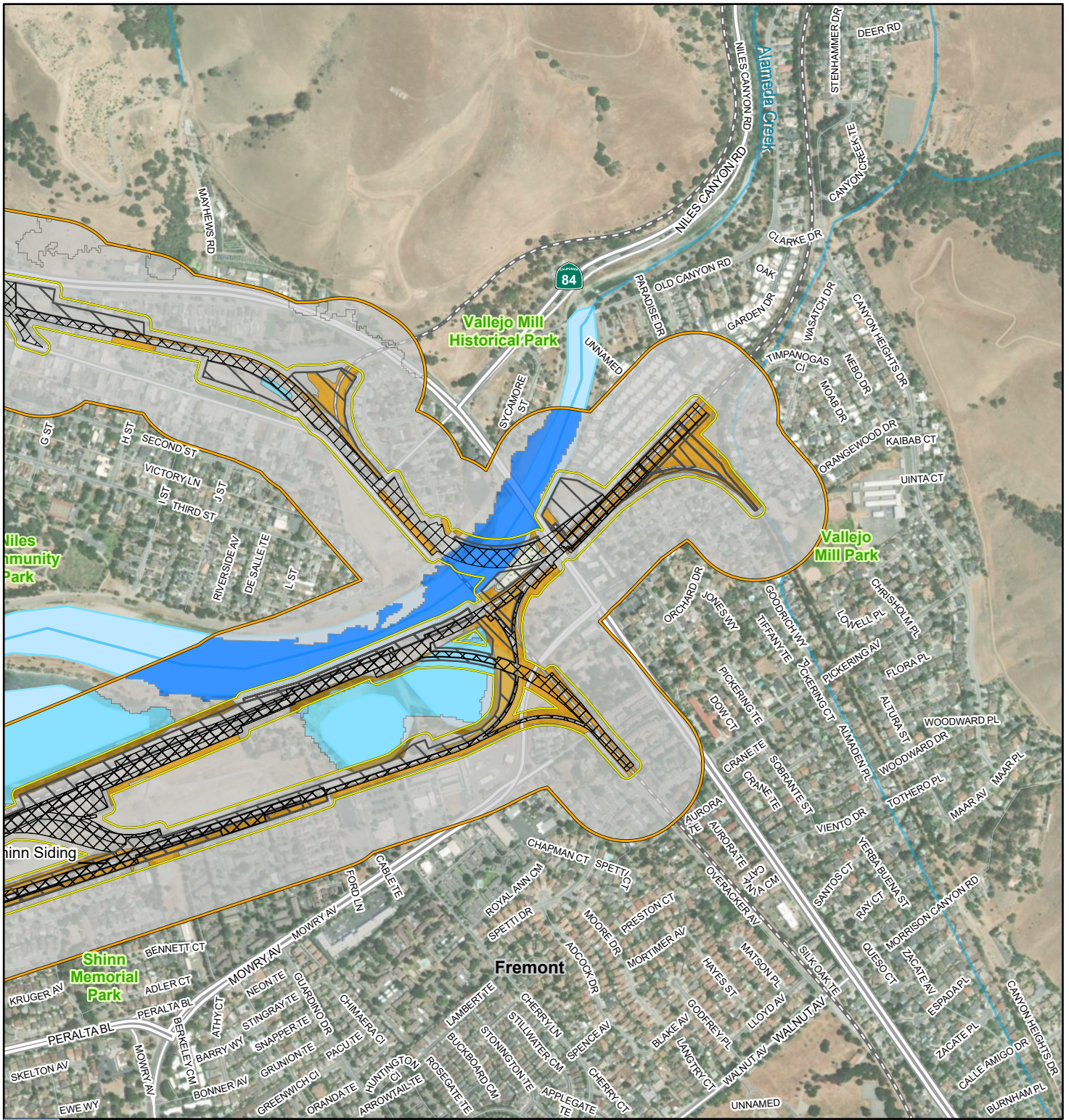
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



ALL ALTERNATIVES  
SOUTH BAY CONNECT



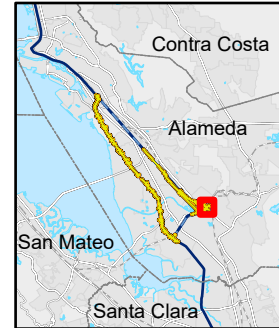
DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



- Biological RSA
- Aquatic RSA
- Station where Capitol Corridor (CC) Service to be Discontinued
- Proposed Ardenwood Rail Station and Park & Ride
- Permanent
- Temporary
- Utility Impacts
- BART Alignment
- Railroad

- Land Cover and CWHR Vegetation Communities**
- Coastal Oak Woodland (COW)
  - Coastal Scrub
  - Freshwater Emergent Wetland (EM)
  - Lacustrine (LAC)
  - Mixed Riparian Forest
  - Riverine
  - Ruderal
  - Urban (URB)

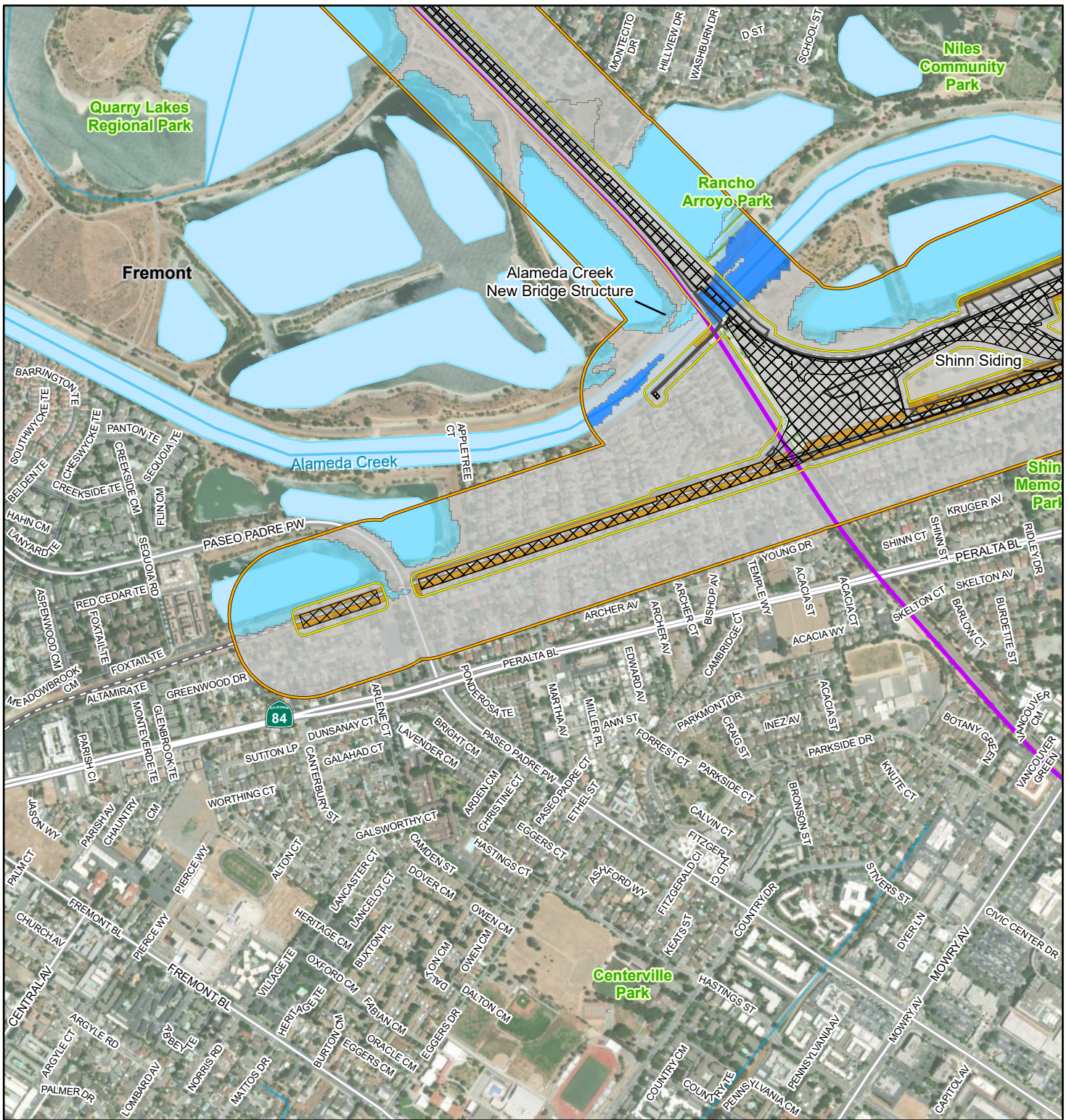
## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES



**ALL ALTERNATIVES  
SOUTH BAY CONNECT**

0 500 1,000  
Feet

DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission

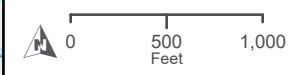
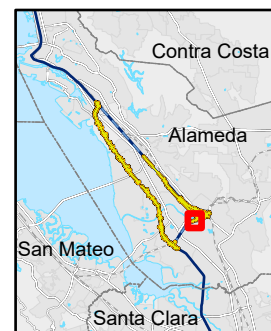


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- Land Cover and CWHR Vegetation Communities
- Coastal Oak Woodland (COW)
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  - Lacustrine (LAC)
  - Mixed Riparian Forest
  - Riverine
  - Ruderal
  - Urban (URB)

## BIOLOGICAL RSA - CWHR LAND COVER AND AQUATIC RESOURCES

ALL ALTERNATIVES  
SOUTH BAY CONNECT



DATA SOURCES: CWHR, ICF, Caltrans, Alameda County, San Mateo County, Metropolitan Transportation Commission



# Attachment 3

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CALIFORNIA DEPARTMENT OF  
**FISH and WILDLIFE RareFind**

**Query Summary**

d IS (C I ver s Reservoir (3712147 OR Di blo (3712178 OR D blin (3712168 OR H yw rd (3712261 OR H nters Point (3712263 OR L Cost V lley (3712157 OR L s Tr mp s Ridge (3712271 OR Livermore (3712167 OR Milpit s (3712148 OR Mo nt in View (3712241 OR New rk (3712251 OR Niles (3712158 OR O skl nd E st (3712272 OR O skl nd West (3712273 OR P lo Alto (3712242 OR Redwood Point (3712252 OR S n Le ndro (3712262 OR S n M deo (3712253 OR T ss j r ) (3712177 OR Woodside (3712243

Print Close

**CNDDB Element Query Results**

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Acinthominth d (tonii)	S n Mateo thorn-mint	Dipots	PDQAM01040	5	5	Endangered	Endangered	G1	S1	1B,1	SB_UCBG-UC Botanic Garden Berkeley	Chaparral, Upland, Vley & foothill grassland
Accipiter cooperii	Cooper's hawk	Birds	ABNHQ12040	118	7	None	None	G5	S4	n II	CDFW_WL-Watch List, IUCN_LC-) Least Concern	Cismontane woodland, Riparian forest, Riparian woodland, Upper montane coniferous forest
Accipiter striatus	Sharp-shinned hawk	Birds	ABNHQ12020	22	2	None	None	G5	S4	n II	CDFW_WL-Watch List, IUCN_LC-) Least Concern	Cismontane woodland, Lower montane coniferous forest, Riparian forest, Riparian woodland
Acipenser medirostris pop. 1	green sturgeon-sothern DPS	Fish	AFQAA01031	14	2	Threatened	Northern	G2T1)	S1	n II	AFS_VU-Vulnerable, CDFW_SQ-) Species of Special Concern, IUCN_EN-) Endangered	Aquatic, Estuary, Marine bay, Sacramento/San Joaquin flowing waters
Agelaius tricolor	tricolored blackbird	Birds	ABFBXB0020	960	17	None	Threatened	G1Q2	S2	n II	BLM_S-Sensitive, CDFW_SQ-) Species of Special Concern, IUCN_EN-) Endangered, USFWS_BQ-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Swamp, Wetland
Allium peninsulare var. frutescens	French onion	Monocots	PMLIL021R1	25	15	None	None	G4Q5T2	S2	1B,2	SB_UCBG/R/SABG-C (iform) /R (ncho S (nt An) Botanic Garden	Cismontane woodland, Upland, Vley & foothill grassland
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	Amphibians	AAAAA01181	1328	197	Threatened	Threatened	G2Q3T3	S3	n II	CDFW_WL-Watch List, IUCN_VU-) Vulnerable	Cismontane woodland, Meadow & seep, Riparian woodland, Vley & foothill grassland, Vern pool, Wetland
Anisnickia grandiflora	large-flowered fiddleneck	Dipots	PDQBQ01050	9	1	Endangered	Endangered	G1	S1	1B,1	SB_UCBG-UC Botanic Garden Berkeley	Cismontane woodland, Vley & foothill grassland
Anisnickia lutea	small-flowered fiddleneck	Dipots	PDQBQ01070	93	19	None	None	G3	S3	1B,2	BLM_S-Sensitive, SB_UCBG-UC Botanic Garden Berkeley, SB_UCSQ-JC S (nt Cr) z	Cismontane woodland, Coastline scrub, Vley & foothill grassland
Anolis niger	Santa Cruz black salamander	Amphibians	AAAAD01070	78	2	None	None	G3	S3	n II	CDFW_SQ-) Species of Special Concern	n II
Anniella strobilifera	Northern California legless lizard	Reptiles	ARAQCQ01020	386	1	None	None	G3	S2S3	n II	CDFW_SQ-) Species of Special Concern, USFS_(S-) Sensitive	Chaparral, Coastline, Coastline scrub, Coastline scrub

Anomobryum um	s nd r s i v r moss	Bryophyt s	NBMUS80010	13	1	Non	on	?	S2	4.2	nu 5	Bro d v d up nd for st, 5 Low 5 mont n onif rous for st, North o st onif rous for st
Androzous p 5idus 5	p 5id b 5 5	M 5mma s 5	AMAC 50010	4205	18 55	N 5	on 5	4 5	S35	nu55	BLM S-S nsitiv 5 CDFV S35-5 Sp5i of Sp5i C 5m, IUCN LC-5 L 5st C 5m, USFWS S nsitiv 5	Ch 5 5 C 5s sub, D s 5 sh, Gr t B 5in gr 5 nd, Gr 5t B 5in 5 sub, Mo v 5nd 5 5 s rub, Rip 5 5 wood 5nd, S 5 5 5 5 s sub, 5 5 5 mont n onif rous for st, V 5 y & fo 5thi gr 5s 5nd
Andri hrys 5tos 5	go 5 5 5g 5	irds 5	AMAC 50210	332 5	12 55	B 5	on 5		3 5	nu55	BLM S-S nsitiv , CDFV S-5 nsitiv 5 CDFV FP55L5 Pr5 5 t 5 CDFV WL-Wat 5 List, IUCN LC-5 L 5st C 5m 5	Br 5 5 v 5 up 5nd for 5st, C 5m 5 5 wood nd, C 5st pr 5 5, Gr t B 5in gr 5 nd, Gr 5t B 5in 5 sub, Lo 5 5 mont n onif rous for 5, P 5on & unip r wood 5nds 5 5 mont n onif rous for 5, V 5 y & fo 5thi gr 5s 5nd
Ar 5 5 5 5 nd 5sonii 5	Ar 5 5on's 5 manz 5it	Di 5s 5	PDF 504030 5	6455	1 5	N 5	on 5	2 5	S25	155 5	SB 5 5 B 5 5 R 5 5 S 5 B 5 C 5 5iform 5/5 5 5o 5 S 5nt Ar 5 5 Bot 5 Gard 5, SB 5 5 U 5S nt 5 5	Br 5 5 v 5 up 5nd for 5, C 5 5 5 North o st onif rous for 5
Ar 5 5 5 5 5 5 5 5	Mt. Di 5 manz nit	Di 5s 5	PDF 504040	1755	8 5	N 5	on 5	2 5	S25	155 5	SB 5 5 U 5S 5 5 5 5 S nt 5 5	Ch 5 5 5 C 5m 5 5 wood 5nd
Ar 5 5 5 5 5 5 5 5	C 5 5 5 5 manz 5it 5	Di 5s 5	PDF 504273 5	1055	7 5	N 5	on 5	T255	S25	155 5	SB 5 5 U 5S 5 5 5 5 S nt 5 5	C 5 5 5
Ar 5 5 5 5 5 5 5 5	p 5id manz 5it	Di 5s 5	PDF 504150 5	9 5	6 5	Th 5 5 5 5	En 5 5 5 5	G155	S155	155 5	SB 5 5 B 5 5 R 5 5 S 5 B 5 C 5 5iform 5/5 5 5o 5 S 5nt Ar 5 5 Bot 5 Gard 5	Br 5 5 v 5 up 5nd for 5, Ch 5 5 5 C 5m 5 5 n wood 5nd, C 5s d- 5 onif rous for 5st, C 5st s sub
Ar 5 5 5 5 5 5 5 5	K 5 5 5 Mount 5 manz nit	Di 5s 5	PDF 5041C 5	17 55	1355	N 5	on 5	2 5	S25	155 5	SB 5 5 U 5S 5 5 5 5 S nt 5 5	Br 5 5 v 5 up 5nd for 5, C 5 5 5 North o st onif rous for 5st
Ar 5 5 5 5 5 5 5 5	gr 5 5 b 5 5 5 5 5	Bi 5s 5	AMAC 504010	1 6	6 5	Non 5	on 5		4 5	nu55	CDFV S-5 nsitiv 5 IUCN LC-5 st C 5m	Br 5 kish marsh, E 5 5 5, Fr 5 5 5 tr marsh, Marsh & sw 5 5 5 5 5 for 5, Wet nd
As 5 5 5 5 5 5 5 5	short- 5 5 5	Bi 5s 5	AMAC 505040	11 55	1 5	N 5	on 5		2 5	nu55	CDFV S35-5 Sp5i of Sp5i C 5m, IUCN LC-5 L 5st C 5m, USFWS B 5 5 5 5 5 of C 5ns 5v 5on C 5m	Gr t B 5in gr 5 nd, Marsh 5 sw mp, Me 5ow & 5 5p, V 5 y & fo 5thi gr 5 5nd, Wet 5nd
As 5 5 5 5 5 5 5 5	o 5t 5 marsh mi k- v 5 5 5	Di 5s 5	PDF 5057525	24 5	1 5	N 5	on 5	T255	S25	155 5	BLM S-S nsitiv 5 SB 5 5 B 5 5 R 5 5 S 5 B 5 C 5 5iform 5/5 5 5o 5 S 5nt Ar 5 5 Bot 5 Gard 5, SB 5 5 U 5S 5 5 5 5 Bot 5 Gard 5 5 B 5k 5 y 5	Co st dun 5, Co 5 5 rub, Marsh & sw mp, Wet 5nd 5

Astragalus t r ar t r	alkali milk-tch	Dicots	PDFAB0F8R1	65	11 G	No	2	o G	T1	S1	1B 2	SB_UCSC-UC Sa ta Cruz	Alkali playa, Vall y foothill grassla d, V r al pool, Wetla G G
AttG cu eularia G	burnG G G G	BirGs G	AB0000010	2057G	90 G	NdGG	4	Go G		S2Gn	GullGG	BLM_S-SG sitGG G CDRUG SSGG SpGG G SpGG G CCG G GUCN GC-CB L Est CCG G G USFWS BCGG Birds of CCG G G CCG G G	Coastal prairi ,G Coastal scrub, rat Basi ghabla G, at Basi scrub, Moja Ga G G G scrub, SCGra d G scrub, Vall yG foothill grassla G
AttG d r Sa	brittl sal	icots G	PD00002L0	60 G	2 G	NdGG	2	Go G		S2G	1B2n	GllG	Alkali playa, CCGopod scrub, Meadow & Gp, Vall yG foothill grasslaG, V G pool, Wetla d
AttG XG mi uscula	l s r G saltscal	Dicots G	PD000042M0	52 G	2 G	NdGG	2	Go G		S2G	1B2G	CG CAB RSGG - Cabfor BCGG SaCG AG BCG G ral	Alkali playa, CCGopod scrub, Meadow & Gp, Vall yG foothill grassla G
Balsamorhiza G macrol ps	big-sca G balsamroot	Dicots G	PD0000061	51	2 G	NdG	2	Go		S2G	1B2G	BLM_S-SG sitGG G USFWS-S Gsiti	ChaparralG CinnCG woodlaGd, Ullamafic, Vall y & foothill grassla G G
Bombus caligi Gs	obscur buml G	I s cts G	IIHYM2438G	18G	11 G	NdG	2	o G		S1S2Gn	ull	IUCN_VUG Vul Gabl G	ull
Bombus crotchiig	Crotch's buml b	I s cts	IIHYM24480	43G	6 G	No		Ca didG E daG r d	2 G	S2 n	Gull	IUCN_EN- E da G G d G	ull
Bombus G occid Gtalis	w Gt G buml G	I s Gs G	IIHYM24252 G	30G	24 G	NdGG		Ca didat E da G G G	3 G	S1Gn	GullGG	IUCN_VU-GG Vul Gabl , G USFWS-S GsitiG	ull
Brachyrhynchus G marmoratus	marbl d murr G	BirGs	AB0000010	110	1	ThG G Gd		E da G G G G3		S2Gn	GullGG	CDRUG-S GsitiG G IUCNENGG E da G G G	Low Gmo ta coGf rous for G, OldgrowG R GwGd
Brachi Gtaly chi G	r al pool fairy Grimp	Crustac G S	IC00003030 G	80G	1 G	Thr G G G		No G		S3Gn	GullGG	IUCN_VUG Vul Gabl G	Vall yG foothill grasslaG, V G pool, G Wetla d
BuG Ggalis G	f rrugi Gs hawkGG	BirGs G	AB00000120	107G	2 G	NdGG	4	Go G		S3S4Gn	uGG	CDRUG WL-Watch GList, IUCN GC-G L Est CCG G	rat Basi ghabla G, Basi scrub, PGG & ju p r woodlaGds, Vall yG foothill grassla d
BuG GvaG G G	SvG G G hawkGG	BirGs	AB00000070	2576	1	NdG		hr G Gd	G5	S4Gn	GullGG	BLM_S-S GsitiG G IUCN GC-G Est CCG G	rat Basi grasslaGd, Riparia for G, Riparia woodlaGd, Vall yG foothill grassla G
Calci GGGG G	EdG Gd d bli d G har Gtma	Arch Gs G	ILAF000020 G	2 G	2 G	NdGG	1	Go G		S1Gn	Gull n	GllGG	Ullamafic, Vall yG foothill grassla d
Calshortus pulch Gs G	Mt DiabO fairy-la G G	Mo ocots G	PNLIL0D100 G	52GG	21GG	NdGG	2	Go G		S2G	1B2G	CG CAB RSGG - Cabfor BCGG SaCG AG BCG G ral G	ChaparralG CinnCG woodla G, Riparia woodlaGd, Vall yG foothill grassla G
CaB G G G	brislly G G	o Gcots	PMCYR032Y0G	31 G	1 G	NdG	5	Go		S2G	2B2G	IUCN GC-G Est CCG G	Coastal prairi ,G FrGhwab r marsh, Marsh & swamG Vall yG foothill grassla G, Wetla d
C GtronGadia parG ssp co G G	CG Gdo G G tarpla t G	Dicots G	PD0000001G	96 G	43GG	NdGG	3	Go G	T2GG	S2G	1B2G	BLM_S-S GsitiG G CG CAB RSGG - Cabfor BCGG SaCG AG BCG G ral G	Vall yG foothill grassla G G

Charadrius i sus i sus	ester s ypl er	Birds W	ABNNB03031	140	12 W	Threatened	N e W	G3T3 W	S3 n	ull	CDF SSC- Species f Special C cer	Great Basi sta di g aters, Sa d sh re, tia d e
CHAM pyr maritimum palustre	P W W Reyes salty bird's- beak	Di W W	PDSORUOC3V	80 W	9 W	N We W	N We W	G4T2W	S2W	1B W	BLM S-S SB CA BORS Calif IMA/RA Sa W A A/B Garde	Marsh W amp, Sa W marsh, tia W e
CHAM pyr palmatum W	pal mate- braked bird's- beak	Di W W	PDSORUOJ0	25 W	1 W	E da gered	E da gered	G1	S1W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Garde	CHAM W & Mead & Weep, Valley f Whill gras W, tia W e
CHAM za The cuspidata ar. cuspidata	Sa W Fr Bay W spi W Ver	Di W W	PDSORU04081	17 W	1 W	N We W	N We W	G2TWW	S1W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Garde W	C W stal bluff scrub, C astal du W, C astal prairie, C W stal scrub
CHAM za The r busta ar. r W sta	r W Must W spi W Ver	Di W W	PDSORU040Q2	20	2 W	E da gered	N e	G2TWW	S1W	1B W		Chaparral, Cism W ta W dla W, C W stal bluff scrub, C W stal du W
Cit W ela hirtic W gna W	sa W W beach Wiger beetle W	I W W	IICORU02101 W	34 W	1 W	N We W	N We W	G5T2W	S2W	Wull n		C W stal du W
Cit W huds Wus W	rther har W	Birds W	ABNNCWO11	82 W	9 W	N We W	N We W	G5W	S3W	Wull W	CDF SSC Species W Special C Wcer WUCW Least C Wcer W USFWS BOW f C Wcer W	C W stal scrub, Great Basi gras W, Marsh W amp, Riparia W scrub, Valley W Whill gras W tia W e
Cit W um f W ar. f W me	f W W thistle	Di W W	PDSORU05161	5	5 W	E da gered	E da gered	G2TWW	S1W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Garde	Chaparral Cism W ta W dla W Mead W & Weep, Ultramafic, Valley W Whill gras W tia W e
Cit W um prairie W	I W W thistle	Di W W	PDSORU05260 W	1	1 W	N We W	N We W	G1W	S1W	1A W		ull W
Clarkia W W ssp. aut W Xa W	Sa W W red W s W	Di W W	PDSORUA050A1W	20 W	4 W	N We	N We	G5T3W	S3W	4.3W	SB CA BORS Calif IMA/RA Sa W A A/B Garde	Chaparral, Cism W ta e dla W
Clarkia fra W W sca W W	Pre sid W clarkia W	Di W W	PDSORUA050H0W	4 W	1 W	E da gered	E da gered	G1W	S1W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Berkeley	C W stal scrub, Ultramafic, Valley W Whill gras W
Coccyzus america W W s cid W W	ester yell W billed cuck	Birds W	ABNNR02022	165 W	1	Threatened	E da gered	G5T3W	S1 W	Wull W	BLM S-S USFWS BOW SA W A A/B	Riparia W nest
Cili W c W ymb sa	r u W W headed c W W	Di W W	PDSORUHO60	13 W	1 W	N We	N We	G1W	S1W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Garde	C W stal du W
C W W sia multic W	Sa W W c W W	Di W W	PDSORUHO60W	36 W	9 W	N We W	N We W	G2W	S2W	1B W	SB CA BORS Calif IMA/RA Sa W A A/B Garde WSB UCSOW UCSOW	CIV W d-c W c Wifer W nest, C W stal scrub, Ultramafic
C W W Whi W W t W se W	T W W s big-eared W	Mammals W	AMACOW010	635 W	12 W	N We W	N We W	G4W	S2W	Wull	BLM W S-S CDFW SSC Species W Special C Wcer WUCW Least C Wcer W USFWS BOW SA W A A/B	Br W dlea W d W nest, Chaparral, C W W W scrub, Great Basi W Gras W, Great Basi scrub, J W hua tree W dla W L W er m o t a W c Wifer W f nest, Mead & Weep, M q a W Wesert scrub, Riparia f nest, Riparia dla W, S W ra Wesert scrub, S W ra th W W dla W, Upper m o t a W W

													coniferous forest & grassland	
Columbicop noveboracensis	yellow rail	Bird	BNME000	45	9	1	None	None	G4	1	S2	1	CDFW_SSG-1 Species of Special Concern IUCN_1C-Lea 1 Concern USFS_S-Set live USFWS_BCG-Bird of Conservation Concern	Freshwater marsh Meadow & deep
Dahau 1 plexippu plexippu	monarch -1 California overwintering population	Insect	ILEPP2021	400	1	0	Candidate	None	G4	1	T2	Q	IUCN_EN-1 Endangered USFS_S-Set live	Cold-coniferous forest
Delphinium californicum	Hopi al Canyon larkspur	Didon	DRANOB0A21	28	1	5	None	None	G3	T8	1	S3	BLM_S-Set live SB_CalBG/RSAIBG-California/Rancho Santa Ana Botanic Garden	Chaparral Ciñmonlane woodland Coastal scrub Meadow & deep
Didymopoda emma	California giant salamander	Amphibian	AAAH01020	234	8	1	None	None	G2	G3	S2	S3	CDFW_SSG-1 Species of Special Concern IUCN_NT-Near Threatened	Aquatic Meadow & deep North Coast coniferous forest Riparian forest
Dipodomys heermanni	Berkeley kangaroo rat	Mammal	MAFD0306	7	1	1	None	None	G4	T1	A	1	2	Chaparral Ciñmonlane woodland
Dipodomys venustus	Santa Cruz kangaroo rat	Mammal	MAFD03042	29	1	4	None	None	G4	T1	A	1	1	Chaparral
Dryas occidentalis	western leaf miner	Didon	DTHM0300	90	1	3311	None	None	G2	1	S2	1	BLM_S-Set live SB_CalBG/RSAIBG-California/Rancho Santa Ana Botanic Garden	Broadleaved upland forest Chaparral Ciñmonlane woodland Cold-coniferous forest North Coast Riparian forest Riparian woodland
Efferia anischi	Antioch effertian robberfly	Insect	IDIP07001	4	1	1	one	None	G	1	G2	S	S2	In drier dunes
Egretta thula	nowyldgre	bird	BNGA06030	20	1	1	None	None	G5	1	S4	1	IUCN_1C-Lea Concern	Marsh & Swamp Meadow & deep Riparian forest Riparian woodland Wetland
Elaenia leucurus	white-bellied kinglet	Bird	BNKIC06001	90	1	1	one	None	G5	1	S3	S4	BLM_S-Set live CDFW_Fully Protected IUCN_1C-Lea Concern	Ciñmonlane woodland Marsh & Swamp Riparian woodland alley & grassland Wetland
Emy marmorata	western pond turtle	Reptile	RAAD02030	559	8	1	Proposed Threatened	None	G3	G4	S3	1	BLM_S-Set live CDFW_SSG-1 Species of Special Concern A 1 IUCN_1U-vulnerable USFS_S-Set live	Aquatic Artificial flowing water Klamath/Northern coast flowing water Klamath/Northern coast flowing water Marsh & Swamp Sacramento/San Joaquin flowing water Sacramento/San Joaquin flowing water Southern coast flowing water Southern coast flowing water Wetland
Erethophila alpestris	California horned lark	Bird	BPAFD20	4	1	2	None	None	G5	T	Q	1	CDFW_WL-Watch List IUCN_1C-11 Lea 1 Concern	Marine intertidal & riparian zone community Meadow & deep

Eriogonum uoum ar. caninum	Tiburon buckwh a	Dicos	PDPGN083S1	26	32	Non	on	5T		B.	SB_CaBG/RSABG- California/Rancho Santa Ana Botanic Garden	Chaparral, Cismontane woodland, Coastal prairie, Ulamafic, Valley and hill grassland
Eriogonum runcaum	Mt Diablo buckwheat	Diablo	PDPGN085Z02	7	2	Non	on	12	S12	1B22	SEUCOUC-UC Botanic Garden	Chaparral, Coastal scrub, Valley and hill grassland
Eriophyllum aizobum	Santa Monica woodpecker sunflower	Diablo	PDPGN0860	8	12	Endemic	Endemic	G1	S12	1B22	SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden	Cismontane woodland, Coastal scrub, Low montane coniferous Ulamafic
Eriogonum aristatum	Hood's buckwheat	Diablo	PDPGN08703	1622	72	Non	on	5T22	S122	1B22	SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden	Valley and Woodland
Eriogonum jonesii	Jones's covey	Diablo	PDPGN08802	1922	62	Non	on			B.22	SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden	Valley and hill grassland, Valley
Eucyclogobius niveus	White goby	Fish	AFZCN04010	1722		Endemic	Non	32	S32	nu22	AFZCN-2 Endemic, CDFW SSC-2 Sp22 of Sp22ia Cohort, UCJN-2 Narrows	Aquatic, Klamath/Northern coastal lowland marshes, Sacramento/San Joaquin lowland marshes, Southern coastal lowland marshes
Eumops cafer	Western massive	Mammals	AMACN02011	96	1	Non	on	4G5T42	S3S42	nu	BLM_S-3 CDFW SSC-2 Sp22 of Sp22ia Cohort	Chaparral Cismontane woodland, Coastal scrub, Valley and hill grassland
Euphryas diademata	Bay buckwheat	Insects	ILLEP04055	3022	72	Threatened	Non	5T22	S32	nu22	u2	Coastal Ulamafic, Valley and hill grassland
Exochus joaquinana	Santa Joaquin grass	Diablo	PDPGN091F32	172	1922	Non	on			B.22	BLM_S-3 SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden	Akaiya Chaparral scrub, Meadow & 2p, Valley grassland
Falco mexicanus	Prairie hawk	Birds	ABNPN06090	451	7	Non	on	52	S42	nu2	CDFW WL-Wa ch Lis, UCJN LC-2 Lands	Grassland, Grassland scrub, Mojoan scrub, Sonoran dunes scrub, Valley and hill grassland
Falco sparverius	American sparrow hawk	Birds	ABNPN06071	752	62	D2is	D2is	G4T2	S3S42	nu2	DFNS-3 nsi2	u
Festuca pauciflora	Minut moss	Brophy	NBMUS W0U0	2		Non	on	3?22	S	B.2	SFS-3-S nsi2	Non coniferous forest
Fritillaria arizonae	Humboldt chocolate	Monocots	PMLILOV0M1	2		Non	on	3G4T12	S12	1B22	SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden, SEUCOUC-UC Botanic Garden & BTK2y, SEUCOUC-UC of Agriculture	Cismontane woodland, Ulamafic, Valley and hill grassland
Fritillaria dielsii	Fragrant bell	Monocots	PMLILOV0C02	8	52	Non	on			B.2	SEUCOUC/RSABG- California/Rancho Santa Ana Botanic Garden, USFWS-22 Snsi	Cismontane woodland, Coastal prairie, Coastal scrub, Ulamafic, Valley and hill grassland
Gelidium acerosum	Sharp common red seaweed	Birds	ABNPN0201A	1142	32	Non	on	5T22	S32	nu22	DFW SSC- Sp22 of Sp22ia Cohort, USFWS BCO-Birds	Marsh & swamp

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													of Conservation Concern	
Gl p 1 ssp. h finisson st	blue o s 1 gl	D o s	PDPLM040B3	37 1		None	None	G5T2	S2 1	B.	SB_UCBG-UC Bo n 1 Garden Berkeley		Co s 1 dunes, Co s 1 s rub 1	
Gl millefol	d ik-eyed gl	D to sl	PDPLM04 30	54 11		None 1	None	G2	S21	B.2	BLM_S-Sehs 1e, SB_C 1BG/RSABG- C 1form1/R n tho S h 1An1 Bo1 in Garden		Co s 1 dunes	
Gon die ngul 1	wes ern rdged mussel	Mollusks 1	IMBIV 90 0 1	58 5 1		None 1	None 1	G3 1	S21 1	null 1	IUCN_MU- Vulner ble		Aqu	
H 1 ee1us leu 0 eph 1us 1	b lde gle 1	B rts	ABNK100 0	333 11		Def s ed 1	Endl 1ngered	G511	S311	null 1	BLM_S-Sens e, CDFW_S-Sehs 1e, CDFW_FF-Fully Pr o t e d, IUCN_1C-1e s Coh 1ern, USFS1_6-1 Sehs 1e		Lowet mon 1ne on ferous fores , Oldgrow th	
Hef n hell1 s ne	D 1blo hel n Hell1	D to sl	PDAST4M020	07 47 1		None	None	G2	S21	B.2	SB_C 1BG/RSABG- C 1form1/R n tho S h 1An1 Bo1 in Garden		Br 0 tle ed 1 upl rdffores , Ch p tr l1 C smdn1 ne wo d l nd, Co s 1 s rub, V lley & fbo H 111 gr dsl n d	
Helm n hoglyp n kln 1n br dges	Br 1gtes' d s r nge shouder b nd	Mollusks 1	IMGASC2362	6 2 1		None 1	None 1	G3T1	S21	null 1	IUCN_DD-D Def n		V lley & fbo H 111 gr dsl n d	
Helmizon 1 onges ssp. 1 onges	onges ed- he detl h yfeld 1 rpl n1	D to sl 1	PDAST4R0W1	52 1		None 1	None 1	G3T21	S21 1	B.2	SB_UCBG-UC Bo n 1 1 Garden 1 Berkeley		V lley & fbo H 111 gr dsl n d	
Hespre 1x sp 1s fibr 1 tr. 1 bre 1ol	shor -1e 1ed e x	D to sl 1	PDASTE50	2 1		None 1	None 11 7 1	G4T31	S31 1	B.2 1	BLM_S-Sehs 1e, SB_C 1BG/RSABG- C 1form1/R n tho S h 1An1 Bo1 in Garden 1		Co s 1 bluff1 s rub, Co s 1 dunes, Co s 1 pr 1e	
Hespetol non 1 brewer 1	Br 0 wter's 1 wes ern fl xl 1	D to sl 1	PDL1N01 030 1	2911 0 1		None 1	None 1	G2 1	S21 1	B.2			Ch p tr l1 C smdn1 ne wo d l nd, Ul r m a f , V lley & fbo H 111 gr dsl n d	
Hespetol non onges um	Mar n wes ern fl xl	D to sl	PDL1N01 060	2711 0 1		Thre 1ened	Thre 1ened	G		B.1	SB_C 1BG/RSABG- C 1form1/R n tho S n 1An 1Bo1 in Garden, SB_UCBG-UC Bo n 1 1 Garden Berkeley		Ch p tr l1 Ul r m a f , V lley & fbo H 111 gr dsl n d	
Hef dr r 1er dub 1	w 1er s 1r- gr ds 1	Mono 0 sl 1	PMPON030 0	9		one 1	None 1	G3 1	S21 1	2B12 1	IUCN_1C-1e s Coh ern		Marsh & dw mp 1	
Hol 1 s r 0 bl h 1	Lo 1n a Pr e ho 1	D to sl 1	PDIFAB5Z080	40 11		None 1	None 1	G2?11	S2? 1	B.11	SB_C 1BG/RSABG- C 1form1/R n tho S h 1An1 Bo1 in Garden		Ch p tr l1 C smdn1 ne wo d l nd, R p 1 n wo d l nd, Ul r m a f	
Holo 1rph mar den	S h 1Cr 1z rpl n1	D to sl 1	PDAST4X020	37 11 3 1		Thre 1ened	Endl 1ngered	G1	S 1	B.11	SB_C 1BG/RSABG- C 1form1/R n tho S n 1An 1Bo1 in Garden, SB_UCBG-UC Bo n 1 1 Garden Berkeley		Co s 1 pr 1e, Co s 1 s rub, V lley & fbo H 111 gr dsl n d	
Horkell 1 ue 1 r. ser 0 1	Kell 0gg's horkel	D to sl 1	PDROS0W043	58 1 2 1		None 1	None 1	G4T1? 1	S 1? 1	B.11	SB_C 1BG/RSABG- C 1form 1/R n tho S h 1An1 Bo 1n Garden; SB_UCSC- UC \$ 1n 1Cr 1z, USFS1_6-Sehs 1e 1		Ch p tr l, Cl 0setl- dne on ferous fo rds , Co s 1 dunes, Co s 1 s rub	
Hydro h r r kse ker	R kse kells 1 w 1er s 1 enger bee 1e	Inse 1s	IIC0L5V01 0	3 1 2 1		None 1	None 1	G2?1	S2? 1	null			Aqu 1 , S r men o/S n Jo qu n flow r1g w 1ers, S 1r rhen d/S h Jo qu n s 1nd r1g w 1ers	
Is 1nur gem n	S h Fr 11 1s 0 fork l d 1nsel1ly 1	Inse 1s 1	IICOD0720 0	7 1		one	None	G2 1	S21 1	null	IUCN_EN- Endl 1ngered N		null 1	
L \$ chy 1ers no 1 g 1s 1	s 11er-h 1red b 1	Mammals 1	AMACC020 0 1	39 1		None 1	None 1	G3G4	S3S41	null	IUCN_1C-1e s Coh ern 1		Lowet mon 1ne on ferous	



													forest, Oloro 2 Riparian forest
Lasiurus cinereus 2	oary bat 2	Mammals 2	AMACC0503 2	38	13 22	None 2	None 2	G3G4	S4 2	nu22	IUCN 2 C-2 east Concern		Broad ead up in forest, Cismontane oo 2an 2 Lo2 er montane coniferous forest, North coastal coniferous forest
Lasthia conjungens	Contra Costa o 2ie 2s	Diots	PDAST02040	36 2	4 2	Er2an 2ere	one	G12N 2	S122	1E22	SBUCBC-UC 2 Botanica Gar 2n at Berkeley		A 2a ip 2ya, Cismontane oo an , Va ey & bot 2 ras 2i 2 Verna2poo ,2 Wet an
Lasiurus jamaicensis 2 coturniculus 2	California 2 black rail 2	Bird 2	ABNVE03041	3042	4 2	None 2	T 2eatene 2	3T222	S	u 2	BLM_S-2sensitivity, CDFW FP2P u 2 Protect 22 IUCN 2 EN- Er2an 2ere		Brackis 2mars 2 Fres2 ater mars , Mars 2s 2am 2 2at mars 2Wet an
Layia carnosa	beac 2ayia	Diots	PDAST02010	5 2	1 2	T 2eatene	n 2an 2ere				B. 2 2	SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic 2 Gar 2n, SB 2BBG- Santa Barbara Botanic Gar 2n	Coasta unes, Coasta 2scrub
Lepidochelys packardii 2	verda 2oo ta 2o 2 2 s 2imp	Crustaceans	ICP2410010 2	332	2	Er2an 2ere 2	one 2	G2 2N 2	S322	nu22	IUCN 2 EN-2 Er2an 2ere		Va ey & bot 2 ras 2i 2 Verna2poo ,2 Wet an
Leptosiphon rosaceus 2	rose leptosiphon 2	Diots 2	PDMLM09180	31 22	1 2	None 2	None 2	G2 2	S122	1E22	SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic 2 Gar 2n		Coasta 2 2off 2 scrub
Lesqueris 2a 2 arac 2noi 2a	Crus 2a 2 Spin 2s es 2in 2a	Diots	PDAST025002	11 2	6 2	None	None	G			B. 2	SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic Gar 2n	Cismontane oo 2an , Coasta 2scrub, U 2ramafic, Va ey & bot 2 ras 2i 2
Lin 2eria occidentalis 2	California in 2erie 2	Crustaceans	ICP2410010 2	502	8 2	None 2	None 2	G2G3	S S32	nu2	IUCN 2 NT-None T 2eatene		Verna 2poo
Macrotis leucurus arcuatus 2	arcuate bus 2 ma o 2	Diots	PDNAL00002	34 2	1122	None	None	G2Q 2	S		B. 2	SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic 2 Gar 2n	C 2apara 2 Cismontane oo 2an
Macrotis leucurus a 2	Half 2 bus 2 ma o	Diots 2	PDNAL00002	71 2	3 2	None 2	None 2	G			B. 22	BLM_S-2sensitivity, SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic Gar 2n 2	C 2apara ,2 Coasta 2scrub, U 2ramafic
Masticophis lateralis 2 euryxanthus 2	A 2ame a ipsnake	Reptiles	APAD221031	167 2	96 22	T 2eatene	reatene	4T2			u 2	G 2	C 2apara , Cismontane oo 2an , Coasta 2scrub, Va 2ey & bot 2 ras 2i 2
Meconis 2 ore 2ana 2	Ore on meconis 2	Diots 2	PDAP20G030	9		one 2	None 2	G2G3	S		B. 2 2	SB 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic Gar 2n 2	Coasta prairie, Coasta 2scrub
Meospiza meo 2a 2pusi 2a	A 2ame a son 2 spar 2	Bird 2	AB2BK231S	38	332	None	None	G2T2T32	S		u	CDFW SSC- Species of Special Concern, 2 USFWS BC2-2Bird 2 of Conservation Concern	Sa 2l 2mars
Microcina e 2e 2o 2ensis 2	E 2e 2o Park micro- b 2ia arvestman	Arac 2ni 2	ILAP247010 2	1 2	1 2	None 2	None 2	G2 2	S122	nu22	u 2		U 2ramafic, Va 2ey & bot 2 ras 2i 2
Microcina eei 2	Lee's micro- b 2ia arvestman	Arac 2ni 2	ILAP247040		1 2	None 2	None 2	G2 2	S122	nu22	u 2		Va 2ey & bot 2 ras 2i 2
Microcina umi	Lum's micro- b 2ia arvestman 2	Arac 2ni 2	ILAP247050			None	None	G1 2	S1 2	nu2	u		U 2ramafic, Va 2ey & bot 2 ras 2i 2
Mono 2pia raciens 2	oo an oo 2t 2ea 2 2	Diots 2	PDAST02010	94 2	1	one 2	None 2	G2 2	S322	1E22	B 2C2BC/RSABG- California/Rahc 2 Santa Ana Botanic 2 Gar 2n 2		Broad ead up in forest, C 2apara 2 Cismontane 2

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																				woodland, o oas6 thiife oos6 fo es ,6 U16kmafi ,6 Valley & no gill g kissland	
Myo i6 yumanensis	Yuma myo i6	Mammals	AMAC001020	2 5 3		one N	one	G66	S46	null6	BLM_S-6 onsi ive, IU66_LC-6 Leas Cen e 6									Low mon kne onife oos fo es , R ipa ian fo es , Ripa ian woodland, Uppe mon kne onife oosfo es	
annop e m au lum 6	double- es 6 o no an	Birds 6	AB6FD001020	39 66 3 6		one N 6	one 6	G66	S466	null66	CDRW_WL-Wa Lis ,IU66_LC-6 Leas Cen e 6 6									Ripa ian fo es , Ripa ian s ub, Ripa ian woodland	
ava 6 p os 6	p os 6 ve 6 nava 6	Ducks 6	PD6PLM0C000	1 6 3 6		one N	one	G26	S26	1666	null6									Coas al s ub, Meadow & seep, Valley & no gill g kissland, Vee pool, We land	
eo kma fus nes anne 6	Sah F 6 in 6 dusky-fo oos wood 6	Mammals 6	AMAFF00082	42 6 156N		one N 6	one 6	G66	S2S36	null66	CDRW_S3C Spe Cen e 6 of Spe Cen e 6									C apa 6, Redwood	
o e 6 Sah Ma s 6	o e 6 Coas al Ma s 6	Ma s	TI62160CA6	53 66 106N		one N	one	G66	S32	null	null6 6									Ma s 6 kissamp, We land	
o 6 e 6 Ma i ime C apa 6	o 6 e 6 Ma i ime C apa 6	S 6ub	C6667C60CA6	17 6 1 6		one N 6	one 6	G66	S62	null6	null66									C apa 6	
y i o ax ny 6	bla 6 owred nig e 6	Birds 6	AB6GA11010	37 66 1 6		one N 6	one 6	G66	S466	null66	IU66_LC-6 Leas Cen e 6									Ma s 6 kissamp, Ripa ian fo es ,6 Ripa ian woodland, We land	
y 6 nomops ma o 6	big f 6 e- ba 6	Mammals 6	AMAC001020	32 6 1 6		one N 6	one 6	G66	S36	null66	CDRW_S3C Spe Cen e 6 of Spe Cen e 6, IU66_LC-6 Leas Cen e 6									null6	
On o 6 yn us mykiss ideus 6 pop. 8	s 6 kissad - 6 en 6 C oas 6	Fis 6	FG6A0209G	44 66 3 6		T 6ea ened N	one 6	G66	S36	null66	AR6666 T 6ea ened, CDRW_S3C Spe Cen e 6 of Spe Cen e 6									Aqua ad , Sah amen Jo quin flowing w kiss	
P 6 kiss 6ae kiss belliflo 6	w 6 e- ye pen 6 kiss 6ae kiss	Ducks 6	PD63760K00	14 6 2 6		Er lange 6	End ange 6	G16 6	S166	1666	66	SB Cen e 6 Ga den a Be Reley									U16kmafi ,6 Valley & no gill g kissland
P 6 elia p a 6 lioides	Mt Di blo 6 p a 6 lia	Ducks 6	PD64Y00C3Q0	1		one N 6	one 6	G26	S26	1666	66	BLM_S-6 onsi ive, 6 SB Cen e 6 Ga den a Sah kiss An B kiss Ga den								C apa al, C kiss ane woodland, U16kmafi	
P 6 giobo 6 ys o isianus va 6 o isianus	C 6 e pop o niflow 6	Ducks 6	PD66R0V066	42 6 5 6		one N 6	one 6	G66	S166	1666	66	BLM_S-6 onsi ive, SB_UCSC-UC San a C uz									C apa al, Coas al p ai ie, Coas al s 6ub
P 6 giobo 6 ys diffusus 6	Sah F 6 in 6 pop o niflow 6	Ducks 6	PD66R0V066	17 6 1 6		one 6	Er lange 6	G166	S166	1666	66	SB Cen e 6 Ga den a Sah kiss C 6z 6									Coas al p ai ie, Valley kiss fo o gill g kissland
P 6 giobo 6 ys glabe 6	ai less pop o niflow 6	Ducks 6	PD66R0V066	9 6 4 6		one N 6	one 6	G66	S66	1A66	null6 6										Ma s 6 kissamp, Sah ma s , Vee pool, We land 6
P 6 emonium a 6 ium 6	O 6 egon polemonium 6	Ducks 6	PD6PLM0E050	1		one N 6	one 6	G66	S2 6	2666	null6 6										Coas al p ai ie, Coas al s 6ub, Low mon kne onife oos fo es
P 6 ygonum ma inense 6	Ma in kno 6	Ducks 6	PD66CNDL1C06	32 6 1 6		one N 6	one 6	G66	S26	3.6 6	null6 6										B 6 kiss 6ma s , Ma s 6 kissamp, Sah 6ma s 6 We land
P 6 ma iopsis alifo 6	P 6 kiss 6ake 6	ollisks 6	IM6GASU0020	4 6 2 6		one N 6	one 6	G66	S166	null66	IU66_D kiss Den ien 6										null6
P 6 6inella simplex	C kiss alkali g 6	Mono 6 6	PM6POA53160	80 6 3 6		one N	one	G26	S26	1666	66	BLM_S-6 onsi ive									C kiss 6ub, Meadow & seep, Valley & fo o gill g kissland, Vee pool
R 6 alis obsole 6	C kiss R idgway's 6	Birds 6	AB6ME05011	99 6 3266		Er lange 6	End ange 6	G3666	S26	null66	66	CDRW_FR6Fu ly P 6 kiss 6									B 6 kiss 6ma s , Ma s 6 kissamp, Sah ma s 6 We land 6

Rana boylei	ooth II yellow-legged frog - central coast DPS 1	Amphibians	AAABH005	8		Threatened	Endangered	G2T2	S2	null1	BLM_S-Sensitive, USFWS_S-Sensitive	Aquatic, Riparian forest, Riparian scrub, Riparian woodland, South coast low rip waters
Rana draytoni	California red-legged frog 1	Amphibians	AAABH00221	768	2251	Threatened	None 1	G2G3	S2S3	null1	CDFW_SSC-1 Sensitive Species of Special Concern, IUCN_VU-1 Vulnerable 1	Aquatic, Artificial low rip waters, Artificial standing waters, Freshwater marsh, Marsh & swamp, Riparian forest, Riparian scrub, Riparian woodland, Sacramento/San Joaquin low rip waters, Sacramento/San Joaquin standing waters, South coast low rip waters, South coast standing waters, Wetland
Ravenella eximia	chickarral harebell 1	Dicot 1	PDICAM020A01	501	51	None 1	None 1	G21	S21	B2	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanical Garden	Chickarral, Ultramarine
Reithrodontomys raviventris	salt-marsh harvest mouse	Mammals 1	AMAFF02001	51	91	Endangered	Endangered	G2G2	S31	null1	CDFW_FPH Fully Protected, IUCN_EN-1 Endangered	Marsh & swamp, Wetland
Riparia riparia	bank swallow	Birds 1	ABPAU0800	2991		None 1	Threatened	G511	S31	null1	BLM_S-Sensitive, IUCN_LC-Least Concern 1	Riparian scrub, Riparian woodland
Rhyacionia nigrer	black skimmer	Birds	ABINM1100	7	21	None	None	G31	S21	null	CDFW_SSC-1 Sensitive Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Alkaline taya, Sand shore
Sagittaria sanfordii	Sand dune arrowhead 1	Monocots 1	PMALIO0Q0	31		None 1	None 1	G31	S31	B2	BLM_S-Sensitive	Marsh & swamp, Wetland
Sagittaria maritima	adobe sand dune	Dicot 1	PDIAPI1Z0D01	7		None	Rare	G21	S21	B	SB_SBBG-Santa Barbara Botanical Garden, USFWS_S-1 Sensitive	Chickarral, Coastal tundra, Meadow & scrub, Ultramarine, Valley & both low grassland
Scaevola latimanus	Alameda Island mole 1	Mammals 1	AMABB0203		81	None 1	None 1	G0T1Q1	SH1	null1	CDFW_SSC-1 Sensitive Species of Special Concern	Valley & both low grassland
Sehecia dianactis	chickarral ragwort	Dicot 1	PDIASTBH060	981	21	None	None	G31	S21	2B12	SB_CalBG/RSABG-California/Rancho Santa Ana Botanical Garden, SB_CRES-Santa Diego Zoo CRES Native Gene Seed Bank	Chickarral, Cismontane woodland, Coastal scrub
Set dent ne Buchgrass	Set dent ne Buchgrass	Herbaceous	CTT1230CA	221	51	None 1	None 1	G21	S212	null	null 1	Valley & both low grassland
Seto thaga etech 1	yellow warbler	Birds 1	ABIPBX0800	7811		None 1	None 1	G31	S31	null1	CDFW_SSC-1 Sensitive Species of Special Concern, IUCN_LC-Least Concern 1	Riparian forest, Riparian scrub, Riparian woodland
Sidalcea malachroides	ma-leaved checkerbloom 1	Dicot 1	PDIMAL10E01	361		None 1	None 1	G31	S314	121	null1	Broadleaved upland forest, Coastal tundra, Coastal scrub, North coast coniferous forest, Riparian forest
Silene verecunda	Sand Franciscan campion 1	Dicot 1	PDICAROU213	201		None 1	None 1	G5T1		B2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanical Garden, SB_UCSC-UC Santa Cruz 11	Chickarral, Coastal blue scrub, Coastal tundra, Coastal scrub, Ultramarine, Valley & both low grassland 1

Sorex va ra aicoete	a t-mar wa deri rew	Mamma	MABA01071	12	10	No e	No e	G5T1 A	S1 n u		C FW_SSC- Specie of Specia Co cer	Mar & wamp, Wet a d
Sper aria macrot ueca var. o ui ty a	o u- tyed a d- p urey	Dicot	DCAR0W062	22 u	6 u	Na e	Na e	G5T2	S2 u	1Bu n		Mar u & wamp, Meadow & ueep
Speyeria zere e myrt eae u	Myrt eal i ven pot b tterfy	I lect u	ILERU608C u	17uu	1 u	E da ered	No e	G5T1uu	S1 n			oa ta d ule u
Spiri c t aieic ty	o ufi unet	Fi u	FCHB03010	46 u	2 u	Propo ed E da ered	T ueate ed	G5 u	S1un u		IUCN_ILC-uea ti Co cer	Aquatic, E th ary
Ster ua a ti ar m brow u	Caifor ia u ea titer u	Bird	BNNM08103	76 u	11uu	E da uered	E da uered	G4T2T3Q	S2 u n u		CDFW_FRuF uy Protected	A ka i p aya, Wet a d
Strepta ti a bid u p. u peramoe	mo t bea tif jeweflower	Dicot	DBRA2G012	103	17	Na e	Na e	G2T2	S2 u	1Bu n	SB_CaBGRSABG-Caifor ia/Ra o o Sa ta A ta Bota ic Garde u SB_UOBG-UQ Bota ica Garde uat Barke ay, USFRSUS-u Se uitive	C aparra , Ciunw ta e wood a d, U tramafic, Va ey & foot iu ra u a d
Strepta ti i pid u	Mt. Diab u jeweflower u	Dicot u	DBRA2G0M0	8	1 u	No e u	Na e u	G2 u	S2 u	1Bu u	SB_CaBGRSABG-Caifor ia/Ra o o Sa ta A ta Bota ic u Garde	C aparra u Vauey & foot iu ra u a d
Stucke ia fi iformi p. a pi au	ort er e der po dweed	Mo ocot u	MPOT03091	21 u	4 u	Na e u	Na e u s P	G5T5u	S2S3	2Bu n u		Mar u & wamp, Wet a d
S uaeda ca ifor ica u	Caifor ia eab ite	Dicot u	DCHIEOP020	18 u	9 u	E da uered	No e	G1 u	S1 u	1Bu u	SB_CaBGRSABG-Caifor ia/Ra o o u Sa ta A ta Bota ic u Garde	Fre uwater mar u, Mar u & wamp, Wet a d
Sycamore A uvia Wood a d u	Sycamore A uvia Wood a d	Riparia u	TT62100CAu	17 u	3 u	Na e	Na e u	G1 u	S1 u n		C u	Riparia wood a d
Taxidea tax u	merica bad er u	Mamma	MAJF04010	647 u	22 u	Na e u	Na e u	G5 u A	US3 u n u		DFW_SSC-u Specie uof Specia Co cer uIUCN_ILC-uea tiCo cer u	A ka i mar , A ka i p aya, A pi e, A pi e dwarf or b, Bo u & fe , Bracki umar u, Broad eaved p a i d fore ti C aparra , C e opod cr b, Ci nwa ta e wood a d, C a ed-coue couifero fore ti Coa ta b uff or b, Coa ta d ue , Coa ta prairie, Coa ta uorub, De ert d ue , De ert wa u, Fre uwateru mar u, Great Bau u urau a d, Great Bau u cr b, u terior d ue u lo e formatio , Jou a tree wood a d, Lime to ue, Lower mo ta e couifero fore ti Mar u & wamp, Meadow & ueep, Mojavea ude ert crub, Mo ta e dwarf or b, Nort ooa ti couifero fore ti O bi rowtu, Paveme t p ai u, Redwood, Riparia fore t, Riparia or b, Riparia wood a d, Satu mar u, Saora de ert or b, Saora ut or wood a d, u

													Ultramafi U B r montan onif rous for B B r Schoras Sub Vab yBBoothill grassland
Triflora sirtalis tata	San Jacinto snak B	R Btil B	ARIZONA 613	6 B 6 B	Erdlang B B	EnBong B B	G5B2 B	S2B	null	BB	CDFB_FFBUBP PrB B B	ArB iB standing Wat r Marsh B B S Bramento/Sak Joquin standing B B r Wetland	
Trifolium amo num	twoflow lov B	DiBs B	PONA 40040	26 B 1 B	Erdlang B B	NoB B	1 B	S1B	1 B1	BS BUCBEG-UCB otani B Gard B B rk B YB S B U S B B B B B t of Agri Btur	S_Cal G/RB G- California/B B B Santa Ana Botani B Gard B S B U C B E G - U C B otani B Gard B B rk B Y B S B U S B B B B B t of Agri Btur	Coastal bluff s Sub Ultramafi Vab yBBoothill grassland	
Trifolium B hydrophilum	salin B lov B	DiBs B	PONA 400RB	56 B 8 B	NB B	on B	2 B	S2B	1 B2	null	BB	Marsh B swamp B Vall yBBoothill grassland V BnaB Bol Wetland B	
Trifolium floribunda	San Jacinto lov B	DiBs B	PONA 400RB	50 B 4 B	NB B	on B	2 B	S2B	1 B	null	BB	Coastal rairi Coastal B B Ultramafi Vab yBBoothill grassland	
Trifolium californicum	oast triqu B B	ryo B y B	N JUS 75010	13 B 1 B	NB B	on B	2 B	S2B	1 B2	US	BBB-S B sensitiv	Coastal bluff s rub Coastal s Sub	
Trifolium baridicum	a Br-fruit tro B B	DiBs B	PONA 400RB	20 B 1 B	NB B	on B	1 B	S1B	1 B1	BS BUCBEG-UCB Santa Ana Botani Gard B B S B U S B B B B B t of Agri Btur	Vab yBBoothill grassland		
Tryonia initor	mimi tryonia (=California B bra B kishwa B snail)	Mollusks	IMCAS 7040	39 B 4 B	NB B	on B	2 B	S2B	null	BB	IUCN B B B B B B B B D B i B B	ArBti ra Bish B marsh Esuaby Lagoon B marsh & B B B B B B B marsh B Wetland	
Urtica longissima	Methus B's b B B B B	Li B B s	NILE 620	206 1	NB B	on B	4 B	S4B	4 B B	LM_S-B	BsitB B	ro B B B B u B B B B B B North B B B onif B B B for B Oldgro B B R B B B B B	
Vallisneria spicata	Vallisneria spicata	H B B a Bous	CTT421 80CA	45 B 2 B	Non	on	3	S3.1	null	null	null	Vab yBBoothill grassland	
Vallisneria spicata	Vallisneria spicata	Woodland B	CTT71B 30B A	91 B 1	Non	on	3 B	S2.B	null	null	null	Cismontan woodland	
Vallisneria spicata	Vallisneria spicata	S B B	CTT1B 210CA	29 B 1 B	NB B	on B	1 B	S1B	null	BB	null	Ch B no od B B B	
Viburnum lilifolium	oval-l viburnum	DiBs B	PONA 7080	39 B 6 B	NB B	on	4 B	S3 B	2 B3	null	BB	Cha arral B Cismontan woodland L B B montan onif B B B B B B	
Vulpes vulpes	San Jacinto kit fox B	Mammals B	ANBAJAC 041	102 B 7 B	Erdlang B B	ThB B B B	G4 B B B	S3B	null	BB	null	Ch B B B B s B B B B B B foothill grassland B	



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[ 712147: 712178: 712168: 712261: 71226 : 712157: 712271: 712167: 712148: 712241: 712251: 712158: 712272: 71227 : 712242: 712252: 712262: 71225 : 712177: 71224 ]

▲ SCIENTIFIC NAME 3	COMMON NAME 3	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	CA RARE PLANT RANK
<a href="#">Acanthomintha duttonii</a>	San Mateo thorn-min	nnual herb	Apr-Jun	FE C	E	1B.1
<a href="#">Acanthomintha lanceolata</a>	Santa Clara thorn-min	nnual herb	Mar-Jun	None	None	4.2
<a href="#">Allium peninsulare</a> var. <a href="#">franciscanum</a>	Franciscan onion	perennial bulbiferous herb	(Apr)May-Jun	None	None	1B.2
<a href="#">Am sinckia grandiflora</a>	large-flowered fiddleneck	annual herb	(Mar)Apr-May	FE C	E	1B.1
<a href="#">Am sinckia lunaris</a>	bent-flowered fiddleneck	annual herb 3	Mar-Jun	None	None	1B.2
<a href="#">Androsace elongata</a> ssp. <a href="#">acuta</a> 3	California androsace	annual herb	Mar-Jun	None	None	4.2
<a href="#">Anomobryum julaceum</a>	slender silver mos	os		one	None	4.2 3
<a href="#">Arctostaphylos andersonii</a>	Anderson's manzanita	perennial evergreen shrub	Nov-May	None	Non#	1B.2
<a href="#">Arctostaphylos auriculata</a>	Mt Diablo manzanita	perennial evergreen shrub	Jan-Mar	None	None	1B.
<a href="#">Arctostaphylos manzanita</a> ssp. <a href="#">laevigata</a>	Contra Costa manzanita	perennial evergreen shrub	Jan-Mar(Apr)	None	None	1B.2 3
<a href="#">Arctostaphylos pallida</a>	pallid manzanita	perennial evergreen shrub	Dec-Mar	FT C	E	1B.1
<a href="#">Arctostaphylos regismontana</a>	Kings Mountain manzanita	perennial evergreen shrub	Dec-Apr	None	None	1B.2
<a href="#">Astragalus pycnostachyus</a> var. <a href="#">pycnostachyus</a>	coastal marsh milk-vetch	perennial herb	(Apr-May)Jun-Oc	one	None	1B.2
<a href="#">Astragalus tener</a> var. <a href="#">tener</a>	alkali milk-vetch	annual herb	Mar-Jun	None	None	1B.2
<a href="#">Atriplex coronata</a> var. <a href="#">coronata</a>	crownscale	annual herb	Mar-Oc	one	None	4.2
<a href="#">Atriplex depressa</a>	brittlescale	annual herb	Apr-Oc	one	None	1B.2
<a href="#">Atriplex minuscula</a>	lesser saltscale	annual herb	May-Oc	one	None	1B.1
<a href="#">Balsamorhiza macrolepis</a>	big-scale balsamroo 3	erennial herb	Mar-Jun	None	None	1B.2
<a href="#">Calandrinia breweri</a>	Brewer's calandrinia	annual herb	(Jan)Mar-Jun	None	None	4.2
<a href="#">Calochortus pulchellus</a>	Mt Diablo fairy-lantern	perennial bulbiferous herb	Apr-Jun	None	None	1B.2 3
<a href="#">Calochortus umbellatus</a>	Oakland star-tulip	perennial bulbiferous herb	Mar-May	None	None	4.2
<a href="#">Calochortus uniflorus</a>	pink star-tulip	perennial bulbiferous herb	Apr-Jun	None	None	4.2
<a href="#">Carex comosa</a>	bristly sedge	perennial rhizomatous herb	May-Sep	None	None	2B.1
<a href="#">Castilleja ambigua</a> var. <a href="#">ambigua</a>	johnny-nip	annual herb (hemiparasitic)	Mar-Aug	None	None	4.2
<a href="#">Centromadia parryi</a> ssp. <a href="#">congdonii</a>	Congdon's tarplan 3	nnual herb	(Apr)May-Oct(Nov)	Non#	None	1B.1
<a href="#">Chloropyron maritimum</a> ssp. <a href="#">palustre</a>	Point Reyes salty bird's-beak	annual herb (hemiparasitic)	Jun-Oc	one	None	1B.2
<a href="#">Chloropyron palmatum</a>	palmate-bracted bird's-beak	annual herb (hemiparasitic)	May-Oc	E C	E	1B.1
<a href="#">Chorizanthe cuspidata</a> var. <a href="#">cuspidata</a>	San Francisco Bay spineflower	annual herb	Apr-Jul(Aug)	None	None	1B.2 3
<a href="#">Chorizanthe robusta</a> var. <a href="#">robusta</a>	robust spineflower	annual herb	Apr-Sep	FE	None	1B.1
<a href="#">Cirsium fontinale</a> var. <a href="#">fontinale</a>	fountain thistle	perennial herb	(Apr)May-Oc	E C3	E	1B.1
<a href="#">Cirsium praeteriens</a>	lost thistle	perennial herb	Jun-Ju	one	None	1A
<a href="#">Clarkia concinna</a> ssp. <a href="#">automixa</a>	Santa Clara red ribbon	nnual herb	(Apr)May-Jun(Jul)	None	None	4.
<a href="#">Clarkia franciscana</a>	Presidio clarkia	annual herb	May-Ju	E C	E	1B.1
<a href="#">Collinsia corymbosa</a>	round-headed collinsia	annual herb	Apr-Jun	None	None	1B.2 3
<a href="#">Collinsia multicolor</a>	San Francisco collinsia	annual herb	(Feb)Mar-May	None	None	1B.2
<a href="#">Cypripedium fasciculatum</a>	clustered lady's-slipper	perennial rhizomatous herb	Mar-Aug	None	None	4.2
<a href="#">Deinandra paniculata</a>	paniculate tarplan 3	nnual herb	(Mar)Apr-Nov	None	None	4.2
<a href="#">Delphinium californicum</a> ssp. <a href="#">interius</a>	Hospital Canyon larkspur	perennial herb	Apr-Jun	None	None	1B.2
<a href="#">Dirca occidentalis</a>	western leatherwood	perennial deciduous shrub	Jan-Mar(Apr)	None	None	1B.2 3

<i>Eleocharis caroliniana</i>	small Ckeru h p C	erennial herb	(Acr)Jun-Aug(Se )	None	None	4.3
<i>Elymus californicus</i>	californian bottle-brush gra C	erennial herb C	May-Aug(No ) C	None	None	4.3
<i>Eriogonum luteolum</i> Car. can num C	Tiburon buckwheat C	annual herb	May(Se C	one	None	1B.2
<i>Eriogonum truncatum</i> C	Mt. Diablo buckwheat C	annual herb C	Apr-Se (No -Dec)	None	None	1BC1
<i>Eriogonum umbellatum</i> Car. bah forme	bay buckwheat p C	erennial herb	Jul(Se C	one	None	4.2
<i>Eriophyllum jeffersonii</i> C	Jefferson woolly unflower p C	erennial herb	Apr-Jun C	None	None	4.3
<i>Eriophyllum latifolium</i> C	San Mateo woolly unflower p C	erennial herb C	May-Jul C	FECC	E C	1BC1
<i>Eryngium arifolium</i> Car. hoo er C	Hoober button-celery C	annual/ erennial herb C	(Jun)Jul(Aug) C	None	None	1B.1
<i>Eryngium jeffersonii</i> C	Jefferson coyote-tail p C	erennial herb	Apr-Aug C	None	None	1BC2
<i>Erythronium franciscanum</i> C	San Francisco wallflower p C	erennial herb C	Mar-Jun C	None	None	4.2
<i>Erythranthe laciniata</i>	cut-leaved monkeyflower C	annual herb	Apr-Jul C	None	None	4.3
<i>Extrajlex joaquiana</i> C	San Joaquin Cearcale C	annual herb C	Apr-Oct C	None	None	1BC2 C
<i>Fendleria aurea</i> C	minute socket mo C	o C		one	None	1BC2 C
<i>Fritillaria agrestis</i> C	trunkbell C	erennial bulb ferou herb	Mar-Jun C	None	None	4.2 C
<i>Fritillaria biflora</i> ar. nezana C	Hillborough chocolate lily p C	erennial bulb ferou herb	Mar-Apr C	None	None	1B.1
<i>Fritillaria liliacea</i> C	fragrant fritillary p C	erennial bulb ferou herb C	Feb-Apr C	None	None	1BC2
<i>Galium andrewsii</i> C	hlox-leaf erent ne bed traw p C	erennial herb C	Apr-Jul C	None	None	4.2
<i>Glaucium flavum</i> C	blue coast glaucium C	annual herb	Apr-Jul	None	None	1B.1
<i>Glaucium flavum</i> C	dark-eyed glaucium C	annual herb C	Apr-Jul C	None	None	1B.2 C
<i>Helianthus scaberrimus</i> C	Diablo helianthus p C	erennial herb C	Mar-Jun C	None	None	1B.2 C
<i>Hemizonia congesta</i> C	congested-headed hayfield tarlant C	annual herb C	Apr-No C	one	None	1BC2 C
<i>Hebe axillaris</i> Car. flora ar. bre folia C	hort-leaved ebe ax C	annual herb	Mar-Jun C	None	None	1B.2 C
<i>Hebe erolonia</i> C	Brewer's werten flax C	annual herb	May-Jul C	None	None	1B.2 C
<i>Hebe erolonia</i> C	Marner werten flax C	annual herb C	Apr-Jul C	FTCC	T C	1BC1
<i>Heteranthera dubia</i> C	water tar-gra C	erennial herb (aquatic) C	Jul-Oct C	None	None	2BC2 C
<i>Hottelobosia</i> C	Loma Prieta hot p C	erennial herb C	May-Jul(Aug-Oct) C	None	None	1BC1
<i>Holocarpha macradenea</i> C	Santa Cruz tarlant C	annual herb C	Jul-Oct C	FTCC	E C	1B.1
<i>Horkelia cuneata</i> ar. ercea C	Kellogg's horkelia p C	erennial herb C	Apr-Se C	one	None	1BC1
<i>Horseshoe</i> C	harlequin lotu C	erennial rhizomatou herb	Mar-Jul C	None	None	4.2
<i>Iris longistylis</i> C	coastal iris C	erennial rhizomatou herb C	Mar-May(Jun) C	None	None	4.2
<i>Lycium menziesii</i> C	Satan's goldenbrush p C	erennial shrub C	Aug-Oct C	None	None	4.2
<i>Juglans californica</i> C	Southern California black walnut p C	erennial deciduous tree C	Mar-Aug C	None	None	4.2
<i>Lathyrus conjugens</i> C	conjoint goldfield C	annual herb	Mar-Jun C	FECC	None	1BC1
<i>Lathyrus ferrugineus</i> C	Ferruginous goldfield C	annual herb	Feb-May C	None	None	4.2
<i>Layia carnosa</i>	beach layia C	annual herb	Mar-Jul C	FTCC	E C	1BC1
<i>Leptochloa ambigua</i> C	erent ne leptochoa C	annual herb C	Mar-Jun C	None	None	4.2
<i>Leptochloa aurea</i> C	bristly leptochoa C	annual herb	Apr-Jul C	None	None	4.2
<i>Leptochloa grandiflora</i> C	large-flowered leptochoa C	annual herb	Apr-Aug C	None	None	4.2
<i>Leptochloa latifolia</i> C	broad-lobed leptochoa C	annual herb	Apr-Jun C	None	None	4.3
<i>Leptochloa rostrata</i> C	rosette leptochoa C	annual herb	Apr-Jul C	None	None	1B.1
<i>Leptochloa arachnoidea</i> C	reticulate leptochoa C	annual herb C	Jul-Oct C	None	None	1BC2
<i>Leptochloa hololeuca</i> C	woolly-headed leptochoa C	annual herb	Jul-Oct C	None	None	3
<i>Leptochloa tenuis</i> C	reticulate leptochoa C	annual herb C	May-Jul C	None	None	4.3
<i>Malacothamnus arcuatus</i> Car. arcuatus C	arcuate bush-mallow p C	erennial deciduous shrub	Apr-Se C	one	None	1B.2
<i>Malacothamnus hallii</i> C	Hall's bush-mallow p C	erennial deciduous shrub C	(Acr)May-Se (Oct)	None	None	1B.2
<i>Meconella oregana</i> C	Oregon meconella C	annual herb C	Mar-Apr C	None	None	1BC1
<i>Mielichhoferia elongata</i> C	elongate composita C	o C		one	None	4.3
<i>Monolopia gracilens</i> C	woodland woollythread C	annual herb	(Feb)Mar-Jul C	None	None	1BC2
<i>Nasella heterandra</i> C	Tehama narret C	annual herb	Apr-Jun C	None	None	4.3
<i>Nasella trochiloides</i> C	trochiloides narret C	annual herb	Apr-Jul C	None	None	1B.2
<i>Pentstemon bellidiflorus</i> C	whitethroated pentstemon C	annual herb C	Mar-May C	FECC	E C	1BC1 C

<i>Phacelia_haceli_i_e_v</i>	. Diabl hacelia v	annual herb v	A r- y v a	N ne	N ne	1B/2
<i>Pj_eria_michaelii_v</i>	chael' rein rchi v	erennial herb v	A v-Au	N ne	N ne	4.2
<i>Plagi_b_thry_ch_ri_ianu_ar_ch_ri_ianu_v</i>	Ch ri ' v c rnfl wer v	annual herb M	ar-Jun v	N ne	N ne	1B/2
<i>Plagi_b_thry_ch_ri_ianu_ar_hickmanii_v</i>	Hickman' v c rnfl wer v	annual herb	A v-Jun v	N vne	N vne v	4.2
<i>Plagi_b_thry_iffu_u_v</i>	San Franci c v c rnfl wer v	annual herb M	ar-Jun v	N vne	CEv	1B.1
<i>Plagi_b_thry_glaber_v</i>	hairle v c rnfl wer v	annual herb Mv	arv y v a	N vne	N ne	1Av
<i>P_lemnium_carneum_v</i>	Oreg n lemnium p v	erennial herb v	A v-Se v	ne v	N vne v	2B/2
<i>P_lyg_num_marinen_e_v</i>	rin ka twee v	nnual herb	(Avr) y-Aug(Oct)	N ne	N ne	3.1
<i>Puccinellia_implex_v</i>	Calif rnia alkali gra v	nnual herb Mv	arv y v a	N vne	N ne	1B/2
<i>Ranunculu_l_bbiu_v</i>	L bb' aquatic buttercu v	nnual herb (aquatic) v	Feb- y v a	N vne	N ne	4.2
<i>Ra_enella_exigua_v</i>	cha arral harebell v	annual herb Mv	ay-Jun v	N vne	N ne	1B.2
<i>Sagittaria_anf_r_ii_v</i>	Sanf r ' arr whea v	erennial rhiz mat u herb (emergent) v	y-Oct(N v) v	N vne v	N vne v	1B/2
<i>Sanicula_maritima_v</i>	a vbe anicle p v	erennial herb v	Feb- y v a	N vne	CRv	1B/1
<i>Seneci_a_hanacti</i>	cha arral ragw rt v	annual herb v	Jan-A r( y) va	N vne	N ne	2B/2
<i>Si_alcea_malachr_i_e_v</i>	ma le-lea e checkerbl vmp v	erennial herb	Ma ( r)A r-Aug v	N vne	N ne	4.2
<i>Silene_erecun_a_v_erecun_a_v</i>	San Franci c camp i n p v	erennial herb v	(Feb) r-Jul(Aug)	N ne v	N vne v	1B/2
<i>S_ergularia_macr_theca_ar_l_ngi_tyla_v</i>	I ng- tyle an - urrey p v	erennial herb v	Feb- y v a	N vne	N ne	1B.2
<i>Stre_tanthu_albi_u_v_eram_cenu_v</i>	mo t beautiful jewelfl wer v	annual herb	( v r)A aSe (Oct)	N ne	N ne	1B.2
<i>Stre_tanthu_hi_v_u_v</i>	. Diabl jewelfl wer v	annual herb Mv	ar-Jun v	N vne	N ne	1B/3
<i>Stuckenia_filif_rmi_v_al_ina_v</i>	n rthern len er vn wee v	erennial rhiz mat u herb (aquatic)	MvayvJul v	N vne v	N ne	2B/2
<i>Suae_a_calif_rnica_v</i>	Calif rnia eablite p v	erennial e ergreen hrub v	Jul-Oct v	FEv	N vne v	1B/1
<i>Trif_lium_am_cenum_v</i>	tw vf rk cl er v	annual herb	A r-Jun	FEv	N ne	1B.1
<i>Trif_lium_hy_r_vhilum_v</i>	aline cl er v	annual herb	A r-Jun	N vne	N ne	1B.2
<i>Tri_hy_aria_fl_ribun_a</i>	San Franci c wl' -cl er v	annual herb v	A v-Jun v	N vne	N ne	1B.2
<i>Triquetrella_calif_rnica</i>	c a tal triquetrella v	m v		ne	N ne	1B.2
<i>Tr_vi_vcar_um_ca_vari_eum_v</i>	ca er-fruite tr vi vcar um v	annual herb Mv	ar-A r v	N vne v	N vne v	1B/1
<i>U_nea_l_ngi_vma_v</i>	thu elah' bear lichen v	frutic ve lichen (e i hytic) v		N vne	N ne	4.2
<i>Viburnum_elli_ticum_v</i>	al-lea e iburnump v	erennial eci u u hrub Mv	ayvJun v	N vne v	N vne v	2B/3

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Sugge te Citati n:

Calif rnia Nati e Plant S ciety, Rare Plant Pr gram. 2024. Rare Plant In ent ry ( nline e iti n, 9.5). Web ite htt ://www.rare\_lant .cn . rg [acce e 19 A ril 2024]. v





# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Sacramento Fish And Wildlife Office  
Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:  
Project Code: 2024-0079669  
Project Name: SBC

04/19/2024 18:15:21 UTC

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 IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC 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: <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.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 [Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service \(fws.gov\)](https://www.fws.gov/partner/council-conservation-migratory-birds).

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/library/collections/threats-birds>.

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/partner/council-conservation-migratory-birds>.

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.

**Note:** IPaC has provided all available attachments because this project is in multiple field office jurisdictions.

## Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- 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:

**Sacramento Fish And Wildlife Office**

Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
(916) 414-6600

This project's location is within the jurisdiction of multiple offices. However, only one species list document will be provided for all offices. The species and critical habitats in this document reflect the aggregation of those that fall in each of the affiliated office's jurisdiction. Other offices affiliated with the project:

**San Francisco Bay-Delta Fish And Wildlife**

650 Capitol Mall  
Suite 8-300  
Sacramento, CA 95814  
(916) 930-5603

## PROJECT SUMMARY

Project Code: 2024-0079669

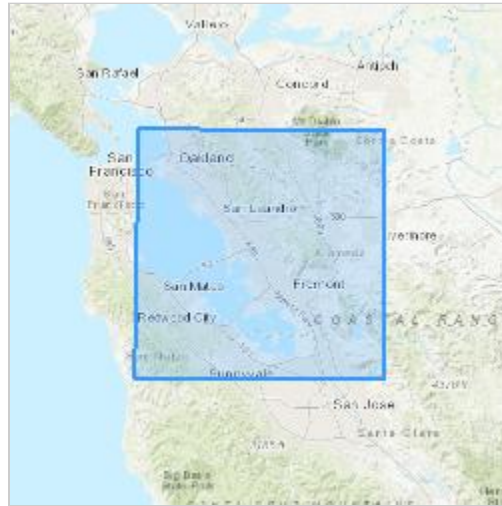
Project Name: SBC

Project Type: Road/Hwy - Maintenance/Modification

Project Description: Area Review

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@37.625772,-122.06326053108964,14z>



Counties: California

## ENDANGERED SPECIES ACT SPECIES

There is a total of 47 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. [NOAA Fisheries](#), 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
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/613">https://ecos.fws.gov/ecp/species/613</a>	Endangered
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2873">https://ecos.fws.gov/ecp/species/2873</a>	Endangered

**BIRDS**

NAME	STATUS
California Condor <i>Gymnogyps californianus</i> Population: U.S.A. only, except where listed as an experimental population There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8193">https://ecos.fws.gov/ecp/species/8193</a>	Endangered
California Least Tern <i>Sternula antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered
California Ridgway's Rail <i>Rallus obsoletus obsoletus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4240">https://ecos.fws.gov/ecp/species/4240</a>	Endangered
Marbled Murrelet <i>Brachyramphus marmoratus</i> Population: U.S.A. (CA, OR, WA) There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a>	Threatened
Western Snowy Plover <i>Charadrius nivosus nivosus</i> Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is <b>final</b> critical habitat for this species. Your location overlaps 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 <i>Coccyzus americanus</i> Population: Western U.S. DPS There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>	Threatened

**REPTILES**

NAME	STATUS
Alameda Whipsnake (=striped Racer) <i>Masticophis lateralis euryxanthus</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5524">https://ecos.fws.gov/ecp/species/5524</a>	Threatened
Green Sea Turtle <i>Chelonia mydas</i>	Threatened

NAME	STATUS
Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6199">https://ecos.fws.gov/ecp/species/6199</a>	
Northwestern Pond Turtle <i>Actinemys marmorata</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1111">https://ecos.fws.gov/ecp/species/1111</a>	Proposed Threatened
San Francisco Garter Snake <i>Thamnophis sirtalis tetrataenia</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5956">https://ecos.fws.gov/ecp/species/5956</a>	Endangered

## AMPHIBIANS

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a>	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2076">https://ecos.fws.gov/ecp/species/2076</a>	Threatened
Foothill Yellow-legged Frog <i>Rana boylei</i> Population: Central Coast Distinct Population Segment (Central Coast DPS) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5133">https://ecos.fws.gov/ecp/species/5133</a>	Threatened
Western Spadefoot <i>Spea hammondi</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5425">https://ecos.fws.gov/ecp/species/5425</a>	Proposed Threatened

## FISHES

NAME	STATUS
Longfin Smelt <i>Spirinchus thaleichthys</i> Population: San Francisco Bay-Delta DPS No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9011">https://ecos.fws.gov/ecp/species/9011</a>	Proposed Endangered
Tidewater Goby <i>Eucyclogobius newberryi</i> There is <b>final</b> critical habitat for this species. Your location does not overlap 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
Bay Checkerspot Butterfly <i>Euphydryas editha bayensis</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat.	Threatened

NAME	STATUS
Species profile: <a href="https://ecos.fws.gov/ecp/species/2320">https://ecos.fws.gov/ecp/species/2320</a>	
Mission Blue Butterfly <i>Icaricia icarioides missionensis</i> There is <b>proposed</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6928">https://ecos.fws.gov/ecp/species/6928</a>	Endangered
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7850">https://ecos.fws.gov/ecp/species/7850</a>	Threatened

## CRUSTACEANS

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8246">https://ecos.fws.gov/ecp/species/8246</a>	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/498">https://ecos.fws.gov/ecp/species/498</a>	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2246">https://ecos.fws.gov/ecp/species/2246</a>	Endangered

## FLOWERING PLANTS

NAME	STATUS
California Seablite <i>Suaeda californica</i> Population: No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6310">https://ecos.fws.gov/ecp/species/6310</a>	Endangered
Contra Costa Goldfields <i>Lasthenia conjugens</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7058">https://ecos.fws.gov/ecp/species/7058</a>	Endangered
Fountain Thistle <i>Cirsium fontinale</i> var. <i>fontinale</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7939">https://ecos.fws.gov/ecp/species/7939</a>	Endangered
Franciscan Manzanita <i>Arctostaphylos franciscana</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5350">https://ecos.fws.gov/ecp/species/5350</a>	Endangered
Hickman's Potentilla <i>Potentilla hickmanii</i> No critical habitat has been designated for this species.	Endangered



NAME	STATUS
Species profile: <a href="https://ecos.fws.gov/ecp/species/6343">https://ecos.fws.gov/ecp/species/6343</a>	
Large-flowered Fiddleneck <i>Amsinckia grandiflora</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5558">https://ecos.fws.gov/ecp/species/5558</a>	Endangered
Marin Dwarf-flax <i>Hesperolinon congestum</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5363">https://ecos.fws.gov/ecp/species/5363</a>	Threatened
Marsh Sandwort <i>Arenaria paludicola</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2229">https://ecos.fws.gov/ecp/species/2229</a>	Endangered
Metcalf Canyon Jewelflower <i>Streptanthus albidus</i> ssp. <i>albidus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4186">https://ecos.fws.gov/ecp/species/4186</a>	Endangered
Pallid Manzanita <i>Arctostaphylos pallida</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8292">https://ecos.fws.gov/ecp/species/8292</a>	Threatened
Palmate-bracted Bird's Beak <i>Cordylanthus palmatus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1616">https://ecos.fws.gov/ecp/species/1616</a>	Endangered
Presidio Clarkia <i>Clarkia franciscana</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3890">https://ecos.fws.gov/ecp/species/3890</a>	Endangered
Presidio Manzanita <i>Arctostaphylos hookeri</i> var. <i>ravenii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7216">https://ecos.fws.gov/ecp/species/7216</a>	Endangered
Robust Spineflower <i>Chorizanthe robusta</i> var. <i>robusta</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/9287">https://ecos.fws.gov/ecp/species/9287</a>	Endangered
San Francisco Lessingia <i>Lessingia germanorum</i> (= <i>L.g.</i> var. <i>germanorum</i> ) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8174">https://ecos.fws.gov/ecp/species/8174</a>	Endangered
San Mateo Thornmint <i>Acanthomintha obovata</i> ssp. <i>duttonii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2038">https://ecos.fws.gov/ecp/species/2038</a>	Endangered
San Mateo Woolly Sunflower <i>Eriophyllum latilobum</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7791">https://ecos.fws.gov/ecp/species/7791</a>	Endangered
Santa Clara Valley Dudleya <i>Dudleya setchellii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3207">https://ecos.fws.gov/ecp/species/3207</a>	Endangered

NAME	STATUS
Santa Cruz Tarplant <i>Holocarpha macradenia</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6832">https://ecos.fws.gov/ecp/species/6832</a>	Threatened
Showy Indian Clover <i>Trifolium amoenum</i> 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
Sonoma Sunshine <i>Blennosperma bakeri</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1260">https://ecos.fws.gov/ecp/species/1260</a>	Endangered
White-rayed Pentachaeta <i>Pentachaeta bellidiflora</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7782">https://ecos.fws.gov/ecp/species/7782</a>	Endangered

## CRITICAL HABITATS

There are 9 critical habitats wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Alameda Whipsnake (=striped Racer) <i>Masticophis lateralis euryxanthus</i> <a href="https://ecos.fws.gov/ecp/species/5524#crithab">https://ecos.fws.gov/ecp/species/5524#crithab</a>	Final
Bay Checkerspot Butterfly <i>Euphydryas editha bayensis</i> <a href="https://ecos.fws.gov/ecp/species/2320#crithab">https://ecos.fws.gov/ecp/species/2320#crithab</a>	Final
California Red-legged Frog <i>Rana draytonii</i> <a href="https://ecos.fws.gov/ecp/species/2891#crithab">https://ecos.fws.gov/ecp/species/2891#crithab</a>	Final
California Tiger Salamander <i>Ambystoma californiense</i> <a href="https://ecos.fws.gov/ecp/species/2076#crithab">https://ecos.fws.gov/ecp/species/2076#crithab</a>	Final
Contra Costa Goldfields <i>Lasthenia conjugens</i> <a href="https://ecos.fws.gov/ecp/species/7058#crithab">https://ecos.fws.gov/ecp/species/7058#crithab</a>	Final
Marbled Murrelet <i>Brachyramphus marmoratus</i> <a href="https://ecos.fws.gov/ecp/species/4467#crithab">https://ecos.fws.gov/ecp/species/4467#crithab</a>	Final
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> <a href="https://ecos.fws.gov/ecp/species/498#crithab">https://ecos.fws.gov/ecp/species/498#crithab</a>	Final
Vernal Pool Tadpole Shrimp <i>Lepidurus packardi</i> <a href="https://ecos.fws.gov/ecp/species/2246#crithab">https://ecos.fws.gov/ecp/species/2246#crithab</a>	Final
Western Snowy Plover <i>Charadrius nivosus nivosus</i> <a href="https://ecos.fws.gov/ecp/species/8035#crithab">https://ecos.fws.gov/ecp/species/8035#crithab</a>	Final

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

The following FWS National Wildlife Refuge Lands and Fish Hatcheries lie fully or partially within your project area:

FACILITY NAME	ACRES
DON EDWARDS SAN FRANCISCO BAY NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?keywords=%5C%22DON+EDWARDS+SAN+FRANCISCO+BAY+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?keywords=%5C%22DON+EDWARDS+SAN+FRANCISCO+BAY+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	29,222.504

## BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

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

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Jan 1 to Aug 31



- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

## MIGRATORY BIRDS

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

- 
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)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below 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
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Jan 1 to Aug 31
Belding's Savannah Sparrow <i>Passerculus sandwichensis beldingi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/8">https://ecos.fws.gov/ecp/species/8</a>	Breeds Apr 1 to Aug 15

NAME	BREEDING SEASON
<p><b>Black Oystercatcher <i>Haematopus bachmani</i></b>            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></p>	Breeds Apr 15 to Oct 31
<p><b>Black Scoter <i>Melanitta nigra</i></b>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/10413">https://ecos.fws.gov/ecp/species/10413</a></p>	Breeds elsewhere
<p><b>Black Skimmer <i>Rynchops niger</i></b>            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/5234">https://ecos.fws.gov/ecp/species/5234</a></p>	Breeds May 20 to Sep 15
<p><b>Black Swift <i>Cypseloides niger</i></b>            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/8878">https://ecos.fws.gov/ecp/species/8878</a></p>	Breeds Jun 15 to Sep 10
<p><b>Black Turnstone <i>Arenaria melanocephala</i></b>            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/10557">https://ecos.fws.gov/ecp/species/10557</a></p>	Breeds elsewhere
<p><b>Black-chinned Sparrow <i>Spizella atrogularis</i></b>            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/9447">https://ecos.fws.gov/ecp/species/9447</a></p>	Breeds Apr 15 to Jul 31
<p><b>Black-legged Kittiwake <i>Rissa tridactyla</i></b>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/10459">https://ecos.fws.gov/ecp/species/10459</a></p>	Breeds elsewhere
<p><b>Black-vented Shearwater <i>Puffinus opisthomelas</i></b>            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/9623">https://ecos.fws.gov/ecp/species/9623</a></p>	Breeds elsewhere
<p><b>Brown Pelican <i>Pelecanus occidentalis</i></b>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/6034">https://ecos.fws.gov/ecp/species/6034</a></p>	Breeds Jan 15 to Sep 30

NAME	BREEDING SEASON
<p>Bullock's Oriole <i>Icterus bullockii</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/9458">https://ecos.fws.gov/ecp/species/9458</a></p>	Breeds Mar 21 to Jul 25
<p>California Gull <i>Larus californicus</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/10955">https://ecos.fws.gov/ecp/species/10955</a></p>	Breeds Mar 1 to Jul 31
<p>California Thrasher <i>Toxostoma redivivum</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/9436">https://ecos.fws.gov/ecp/species/9436</a></p>	Breeds Jan 1 to Jul 31
<p>Clark's Grebe <i>Aechmophorus clarkii</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/10575">https://ecos.fws.gov/ecp/species/10575</a></p>	Breeds Jun 1 to Aug 31
<p>Common Loon <i>gavia immer</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/4464">https://ecos.fws.gov/ecp/species/4464</a></p>	Breeds Apr 15 to Oct 31
<p>Common Murre <i>Uria aalge</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/10453">https://ecos.fws.gov/ecp/species/10453</a></p>	Breeds Apr 15 to Aug 15
<p>Common Yellowthroat <i>Geothlypis trichas sinuosa</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/2084">https://ecos.fws.gov/ecp/species/2084</a></p>	Breeds May 20 to Jul 31
<p>Double-crested Cormorant <i>phalacrocorax auritus</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/3478">https://ecos.fws.gov/ecp/species/3478</a></p>	Breeds Apr 20 to Aug 31
<p>Elegant Tern <i>Thalasseus elegans</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/8561">https://ecos.fws.gov/ecp/species/8561</a></p>	Breeds Apr 5 to Aug 5

NAME	BREEDING SEASON
<p><b>Golden Eagle</b> <i>Aquila chrysaetos</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a></p>	Breeds Jan 1 to Aug 31
<p><b>Gull-billed Tern</b> <i>Gelochelidon nilotica</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/9501">https://ecos.fws.gov/ecp/species/9501</a></p>	Breeds May 1 to Jul 31
<p><b>Heermann's Gull</b> <i>Larus heermanni</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/11955">https://ecos.fws.gov/ecp/species/11955</a></p>	Breeds Mar 15 to Aug 31
<p><b>Long-eared Owl</b> <i>asio otus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/3631">https://ecos.fws.gov/ecp/species/3631</a></p>	Breeds Mar 1 to Jul 15
<p><b>Long-tailed Duck</b> <i>Clangula hyemalis</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/7238">https://ecos.fws.gov/ecp/species/7238</a></p>	Breeds elsewhere
<p><b>Marbled Godwit</b> <i>Limosa fedoa</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/9481">https://ecos.fws.gov/ecp/species/9481</a></p>	Breeds elsewhere
<p><b>Mountain Plover</b> <i>Charadrius montanus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/3638">https://ecos.fws.gov/ecp/species/3638</a></p>	Breeds elsewhere
<p><b>Northern Harrier</b> <i>Circus hudsonius</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p><a href="https://ecos.fws.gov/ecp/species/8350">https://ecos.fws.gov/ecp/species/8350</a></p>	Breeds Apr 1 to Sep 15
<p><b>Oak Titmouse</b> <i>Baeolophus inornatus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/9656">https://ecos.fws.gov/ecp/species/9656</a></p>	Breeds Mar 15 to Jul 15
<p><b>Olive-sided Flycatcher</b> <i>Contopus cooperi</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a></p>	Breeds May 20 to Aug 31



NAME	BREEDING SEASON
<p>Pomarine Jaeger <i>Stercorarius pomarinus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10458">https://ecos.fws.gov/ecp/species/10458</a></p>	Breeds elsewhere
<p>Red Knot <i>Calidris canutus roselaari</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/8880">https://ecos.fws.gov/ecp/species/8880</a></p>	Breeds elsewhere
<p>Red Phalarope <i>Phalaropus fulicarius</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10469">https://ecos.fws.gov/ecp/species/10469</a></p>	Breeds elsewhere
<p>Red-breasted Merganser <i>Mergus serrator</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10693">https://ecos.fws.gov/ecp/species/10693</a></p>	Breeds elsewhere
<p>Red-necked Phalarope <i>Phalaropus lobatus</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10467">https://ecos.fws.gov/ecp/species/10467</a></p>	Breeds elsewhere
<p>Red-throated Loon <i>Gavia stellata</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/9589">https://ecos.fws.gov/ecp/species/9589</a></p>	Breeds elsewhere
<p>Ring-billed Gull <i>Larus delawarensis</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10468">https://ecos.fws.gov/ecp/species/10468</a></p>	Breeds elsewhere
<p>Short-billed Dowitcher <i>Limnodromus griseus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a></p>	Breeds elsewhere
<p>Sooty Shearwater <i>Ardenna grisea</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10417">https://ecos.fws.gov/ecp/species/10417</a></p>	Breeds elsewhere

NAME	BREEDING SEASON
<p><b>Surf Scoter</b> <i>Melanitta perspicillata</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10463">https://ecos.fws.gov/ecp/species/10463</a></p>	Breeds elsewhere
<p><b>Tricolored Blackbird</b> <i>Agelaius tricolor</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/3910">https://ecos.fws.gov/ecp/species/3910</a></p>	Breeds Mar 15 to Aug 10
<p><b>Tufted Puffin</b> <i>Fratercula cirrhata</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p><a href="https://ecos.fws.gov/ecp/species/430">https://ecos.fws.gov/ecp/species/430</a></p>	Breeds elsewhere
<p><b>Western Grebe</b> <i>aechmophorus occidentalis</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/6743">https://ecos.fws.gov/ecp/species/6743</a></p>	Breeds Jun 1 to Aug 31
<p><b>Western Gull</b> <i>Larus occidentalis</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/11969">https://ecos.fws.gov/ecp/species/11969</a></p>	Breeds Apr 21 to Aug 25
<p><b>White-winged Scoter</b> <i>Melanitta fusca</i></p> <p>This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p> <p><a href="https://ecos.fws.gov/ecp/species/10462">https://ecos.fws.gov/ecp/species/10462</a></p>	Breeds elsewhere
<p><b>Willet</b> <i>Tringa semipalmata</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/10669">https://ecos.fws.gov/ecp/species/10669</a></p>	Breeds elsewhere
<p><b>Wrentit</b> <i>Chamaea fasciata</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/10668">https://ecos.fws.gov/ecp/species/10668</a></p>	Breeds Mar 15 to Aug 10
<p><b>Yellow-billed Magpie</b> <i>Pica nuttalli</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="https://ecos.fws.gov/ecp/species/9726">https://ecos.fws.gov/ecp/species/9726</a></p>	Breeds Apr 1 to Jul 31

## 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 ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

### Breeding Season (■)

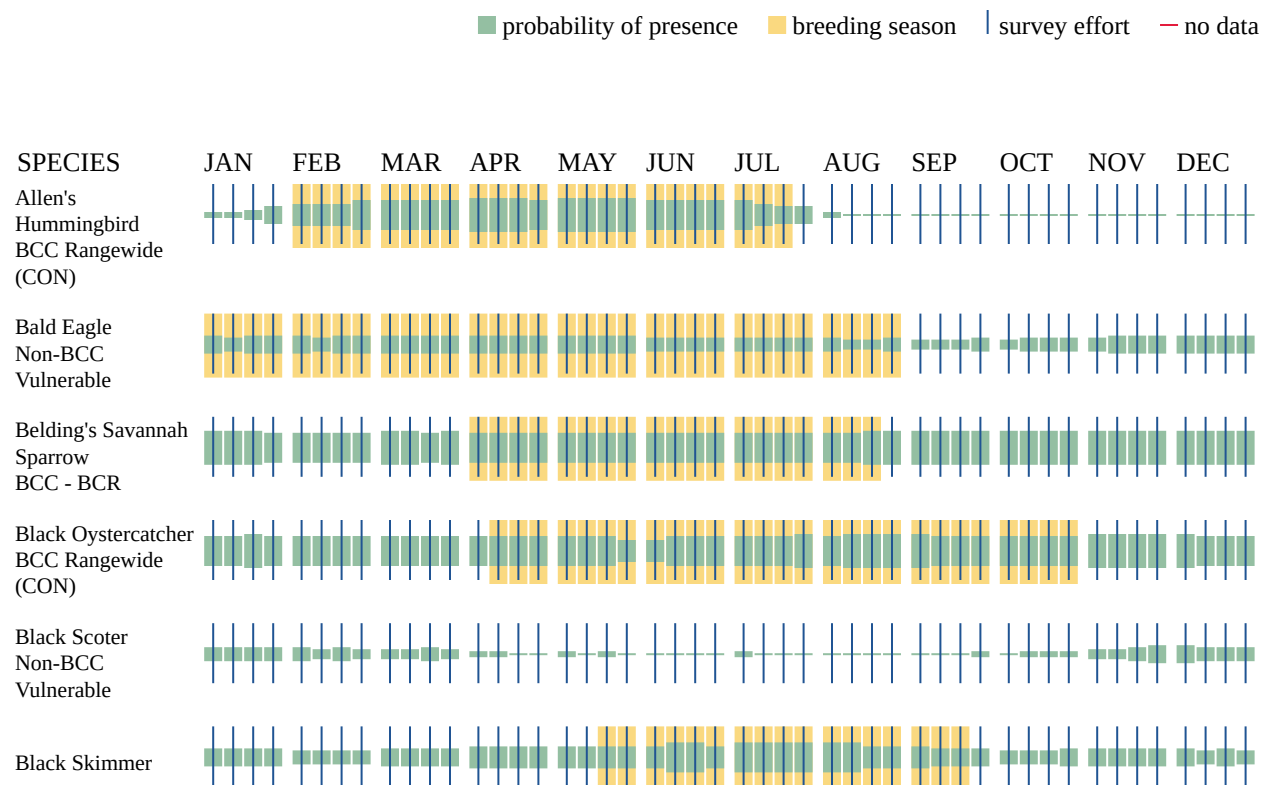
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

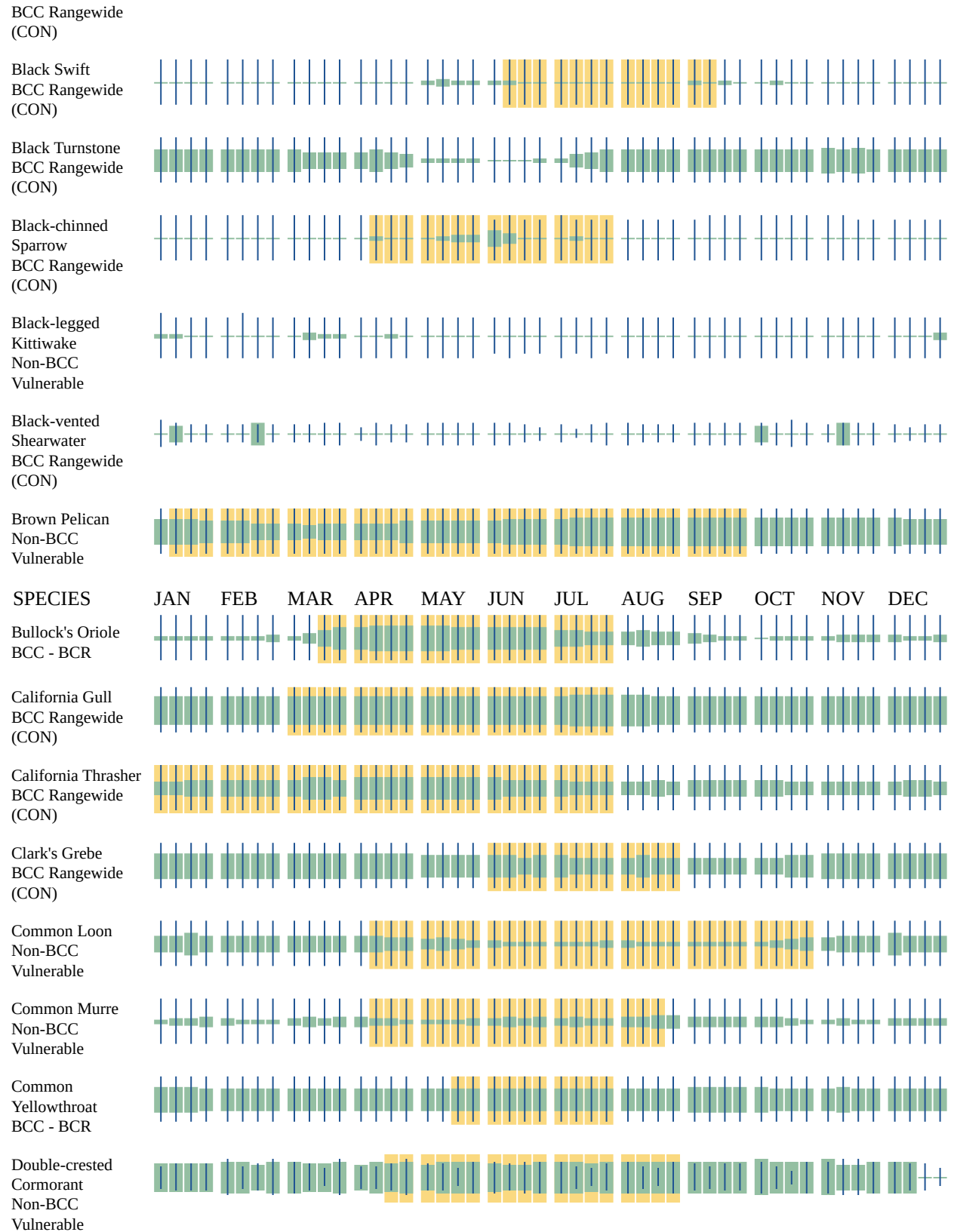
### Survey Effort (|)

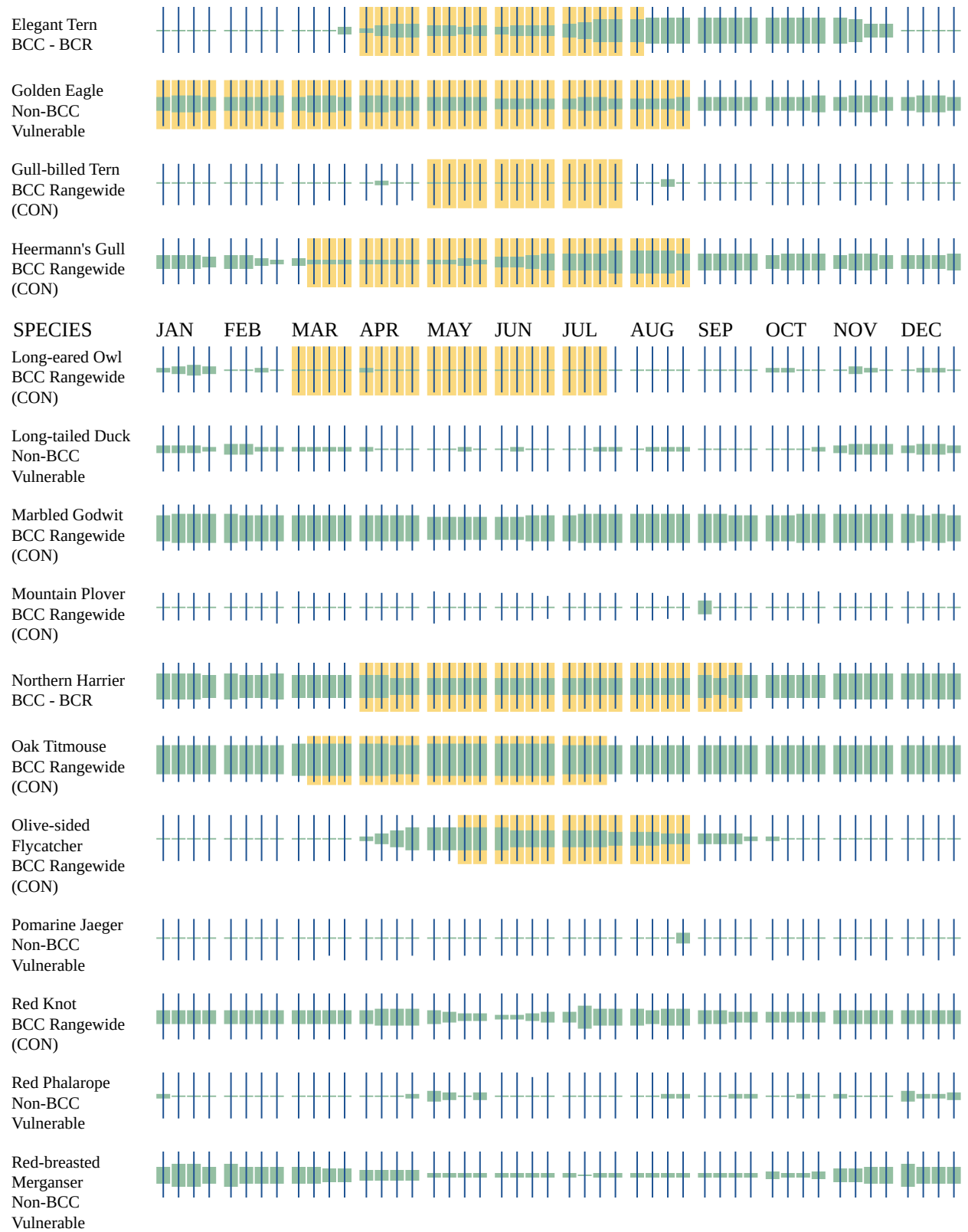
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

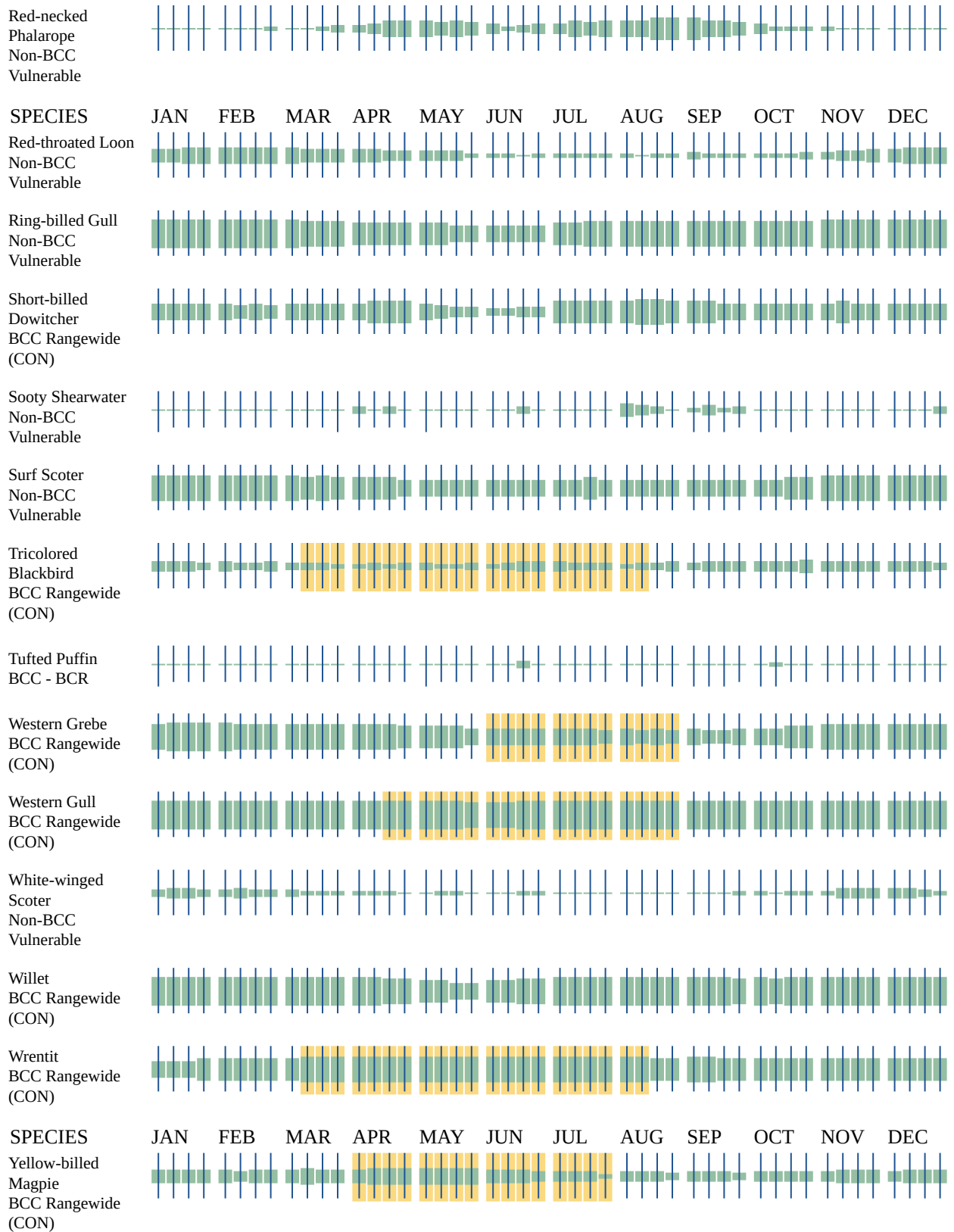
### No Data (-)

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









Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

## WETLANDS

Impacts to [NWI wetlands](#) 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.S. Army Corps of Engineers District](#).

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.

Due to your project's size, the list below may be incomplete, or the acreages reported may be inaccurate. For a full list, please contact the local U.S. Fish and Wildlife office or visit <https://www.fws.gov/wetlands/data/mapper.HTML>

### FRESHWATER EMERGENT WETLAND

- PEM1Fx
- PEM1Kx
- PEM1Cx
- PEM1C
- PEM1B
- PEM1Fh
- PEM1A
- PEM1Ax
- PEM1/USCh
- PEM1F
- PEM1/SSB
- PEM1Ah
- PEM1Ch

FRESHWATER POND

- PUBHx
- PUBHh
- PABFh
- PUBF
- PUSCh
- PUSCx
- PUBH
- PABH
- PUBFh
- PABHx
- PABHh

RIVERINE

- R2UBH
- R5UBF
- R4SBC
- R2UBHx

LAKE

- L2UBHx
- L2ABHh
- L1UBHh
- L2USCh
- L1UBHx

FRESHWATER FORESTED/SHRUB WETLAND

- PSSCh
- PFOCh
- PSSAh
- PFOA
- PSSC
- PSSA
- PFOC



## **IPAC USER CONTACT INFORMATION**

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Quad Name **Oakland West**

Quad Number **37122-G3**

### **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) - **X**

SRWR Chinook Salmon ESU (E) - **X**

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) - **X**

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat - **X**

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Oakland East**

Quad Number **37122-G2**

### **ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Las Trampas Ridge**

Quad Number **37122-G1**

### **ESA Anadromous Fish**

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) - **X**

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 -

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 -

### **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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Diablo**  
Quad Number **37121-G8**

**ESA Anadromous Fish**

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) - **X**  
SCCC Steelhead DPS (T) -  
SC Steelhead DPS (E) -  
CCV Steelhead DPS (T) - **X**  
Eulachon (T) -  
sDPS Green Sturgeon (T) -

**ESA Anadromous Fish Critical Habitat**

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 -  
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) -



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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Tassajara**

Quad Number **37121-G7**

### **ESA Anadromous Fish**

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) - **X**  
Eulachon (T) -  
sDPS Green Sturgeon (T) -

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

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 -  
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) -

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Hunters Point**

Quad Number **37122-F3**

**ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

**ESA Anadromous Fish Critical Habitat**

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **San Leandro**

Quad Number **37122-F2**

**ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

**ESA Anadromous Fish Critical Habitat**

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Hayward**

Quad Number **37122-F1**

### **ESA Anadromous Fish**

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) - **X**

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 -

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 -

### **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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Dublin**

Quad Number **37121-F8**

### **ESA Anadromous Fish**

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) - **X**

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 -

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 -

### **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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Livermore**

Quad Number **37121-F7**

### **ESA Anadromous Fish**

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) -  
Eulachon (T) -  
sDPS Green Sturgeon (T) -

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

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 -  
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) -

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **San Mateo**

Quad Number **37122-E3**

### **ESA Anadromous Fish**

SONCC Coho ESU (T) -  
CCC Coho ESU (E) - **X**  
CC Chinook Salmon ESU (T) -  
CVSR Chinook Salmon ESU (T) -  
SRWR Chinook Salmon ESU (E) -  
NC Steelhead DPS (T) -  
CCC Steelhead DPS (T) - **X**  
SCCC Steelhead DPS (T) -  
SC Steelhead DPS (E) -  
CCV Steelhead DPS (T) -  
Eulachon (T) -  
sDPS Green Sturgeon (T) - **X**

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

SONCC Coho Critical Habitat -  
CCC Coho Critical Habitat - **X**  
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 -  
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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Redwood Point**

Quad Number **37122-E2**

### **ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Newark**

Quad Number **37122-E1**

### **ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Niles**

Quad Number **37121-E8**

### **ESA Anadromous Fish**

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) - **X**

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 -

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 -

### **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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **La Costa Valley**

Quad Number **37121-E7**

### **ESA Anadromous Fish**

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) - **X**

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 -

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 -

### **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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Woodside**

Quad Number **37122-D3**

### **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) - **X**

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) - **X**

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 - **X**

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat - **X**

SCCC Steelhead Critical Habitat -

SC 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) -



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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

Quad Name **Palo Alto**

Quad Number **37122-D2**

### **ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Mountain View**

Quad Number **37122-D1**

### **ESA Anadromous Fish**

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) - **X**

SCCC Steelhead DPS (T) -

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

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

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 - **X**

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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Milpitas**  
Quad Number **37121-D8**

**ESA Anadromous Fish**

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) - **X**  
SCCC Steelhead DPS (T) -  
SC Steelhead DPS (E) -  
CCV Steelhead DPS (T) -  
Eulachon (T) -  
sDPS Green Sturgeon (T) - **X**

**ESA Anadromous Fish Critical Habitat**

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 - **X**  
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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
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 -

**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 -  
MMPA Pinnipeds - **X**

Quad Name **Calaveras Reservoir**

Quad Number **37121-D7**

### **ESA Anadromous Fish**

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) - **X**

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 -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat - **X**

SCCC Steelhead Critical Habitat -

SC 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) -



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) -  
Sperm Whale (E) -

**ESA Pinnipeds**

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

**Essential Fish Habitat**

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

**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 -  
MMPA Pinnipeds -

# Attachment 4

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Active Layer: None

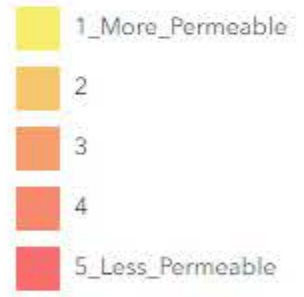
Graphics Layers

External Layers

BIOS Layers

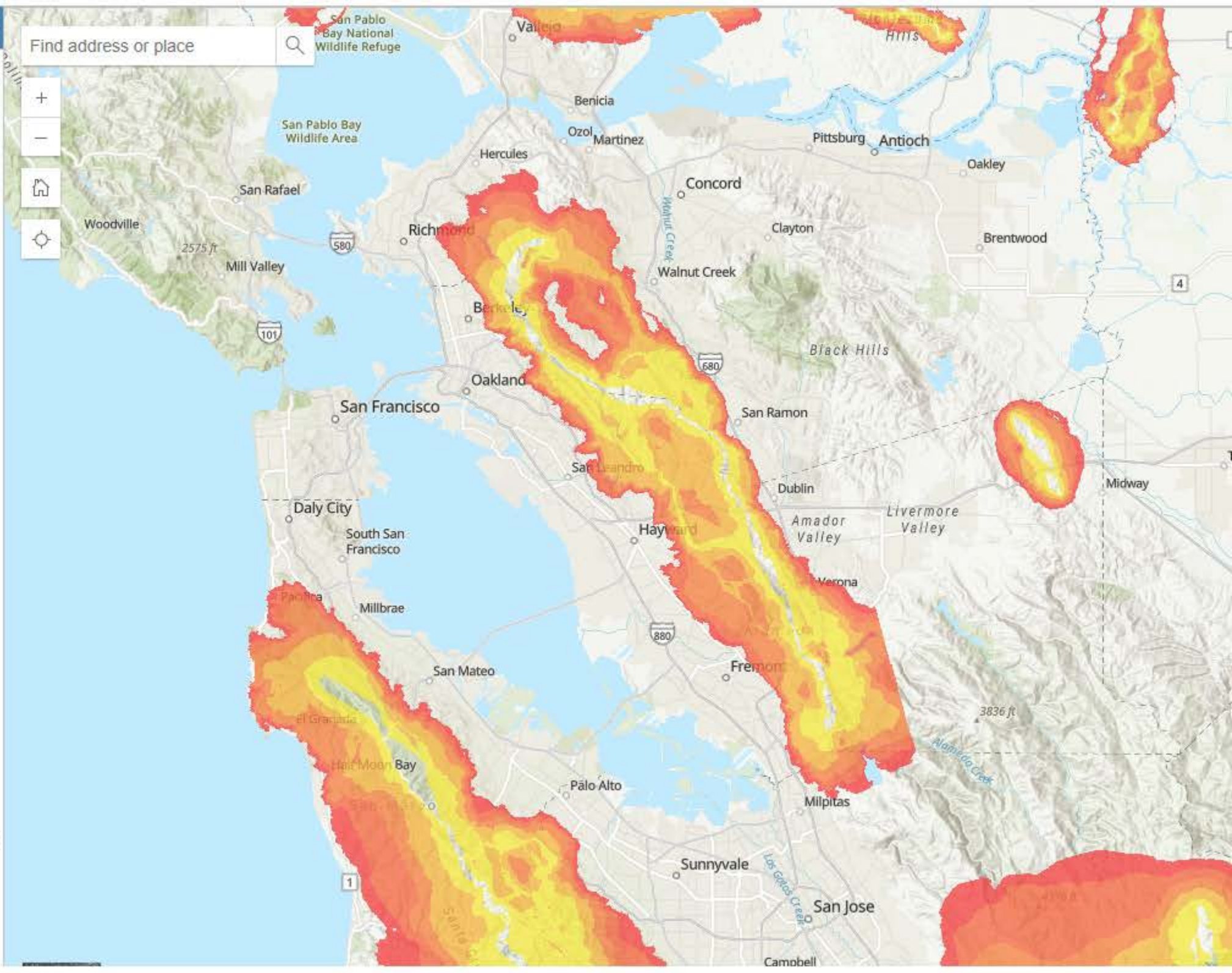
- Spotted Owl Observations [ds704] ...
- Unprocessed Data from CNDDDB Online Field Survey Form [ds1002] ...
- Missing Linkages in California's Landscape [ds420] ...
- Spotted Owl Observations Spider Diagram [ds705] ...

Essential Connectivity Areas - California Essential Habitat Connectivity (CEHC) [ds620] ...



- Natural Landscape Blocks - California Essential Habitat Connectivity (CEHC) [ds621] ...
- California Natural Diversity Database (CNDDDB) Commercial [ds85] ...
- Northern Spotted Owl - Final Critical Habitat - USFWS [ds156] ...

+ Add BIOS Layers



Layer: **None**

**Graphics Layers**

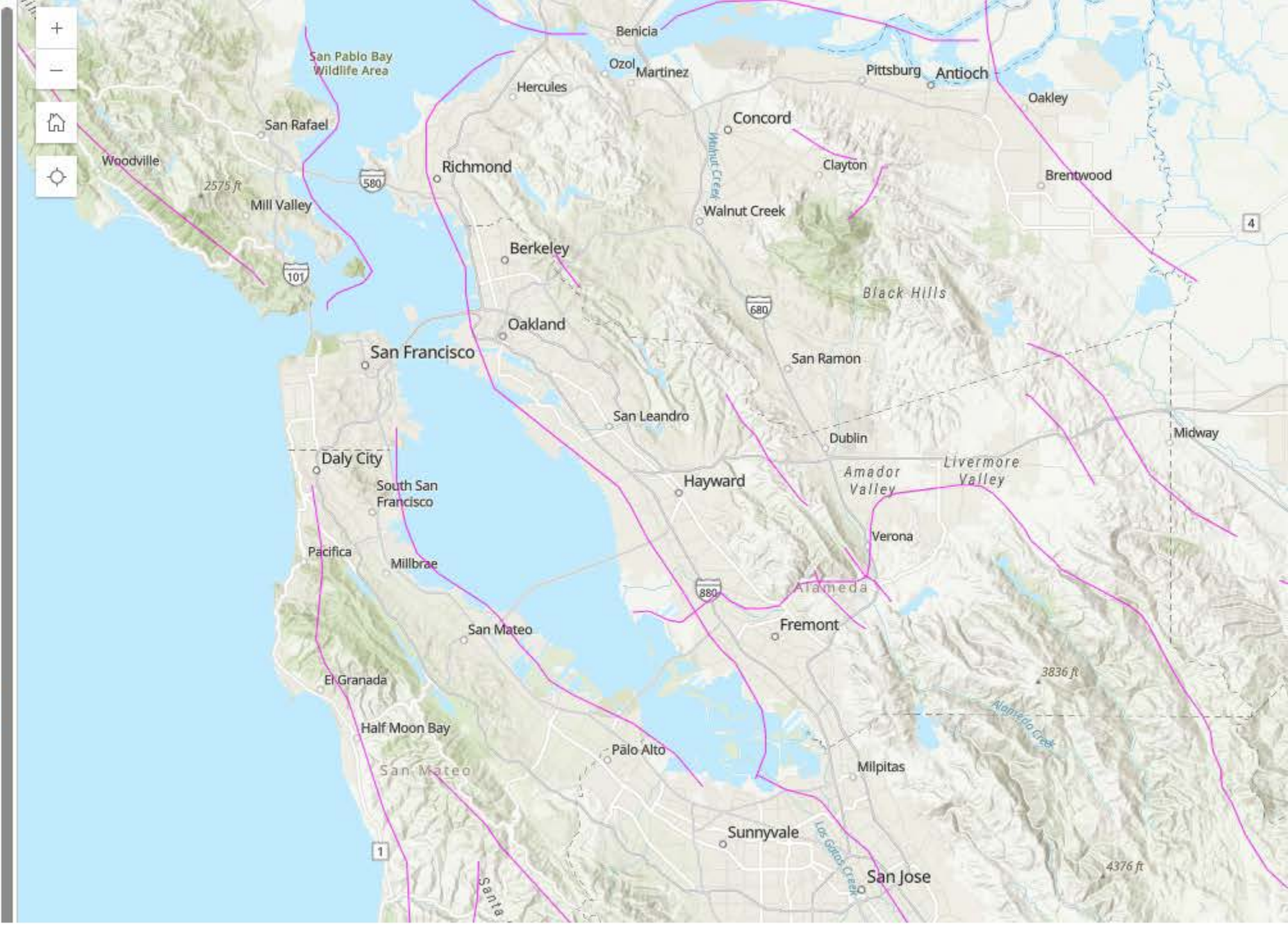
**External Layers**

**BIOS Layers**

- Spotted Owl Observations [ds704] ...
  - Unprocessed Data from CNDDDB Online Field Survey Form [ds1002] ...
  - Missing Linkages in California's Landscape [ds420] ...
  - Spotted Owl Observations Spider Diagram [ds705] ...
  - Essential Connectivity Areas - California Essential Habitat Connectivity (CEHC) [ds620] ...
  - Natural Landscape Blocks - California Essential Habitat Connectivity (CEHC) [ds621] ...
  - California Natural Diversity Database (CNDDDB) Commercial [ds85] ...
  - Northern Spotted Owl - Final Critical Habitat - SFWS [ds156] ...
- 

**Reference Layers**

- Cultural*
- Geopolitical*
- Hydrography*
- Land Ownership*
- Maps*



Active Layer: None

Graphics Layers

External Layers

BIOS Layers

- Spotted Owl Observations [ds704] ...
  - Unprocessed Data from CNDDDB Online Field Survey Form [ds1002] ...
  - Missing Linkages in California's Landscape [ds420] ...
  - Spotted Owl Observations Spider Diagram [ds705] ...
  - Essential Connectivity Areas - California Essential Habitat Connectivity (CEHC) [ds620] ...
  - Natural Landscape Blocks - California Essential Habitat Connectivity (CEHC) [ds621] ...
  - California Natural Diversity Database (CNDDDB) Commercial [ds85] ...
  - Northern Spotted Owl - Final Critical Habitat - USFWS [ds156] ...
- + Add BIOS Layers

Reference Layers

- > Cultural
- > Geopolitical
- > Hydrography
- > Land Ownership

