Appendix G Biological Resources Supporting Information

Appendix G	
Appendix G Biological Resources Supporting Information	
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TABLE OF CONTENTS

Table BIO-1: Special-Status or Otherwise Protected Plant Species that May Occur in the Terrestrial Study Area

Table BIO-2: Special-Status or Otherwise Protected Animal Species that May Occur in the Terrestrial Study Area

Table BIO-3: Special-Status Fish and Marine Mammal Species that may Occur in the Bay Waters of the Study Area

Table BIO-4: Managed Fish Species Known to Occur in Central San Francisco Bay under the Magnuson-Stevens Act

Figure BIO-1: Special Status Plant and Animal Species Occurrences within 5 miles of the Project Site and the Marine Study Area

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TABLE BIO-1
SPECIAL-STATUS OR OTHERWISE PROTECTED PLANT SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Plant Species Listed	or Propose	d for Listin	ıg		
Franciscan manzanita Arctostaphylos franciscana	FE		1B.1	Open, rocky, serpentine outcrops in chaparral. February – April	No Potential. No manzanita shrubs were observed during the reconnaissance survey of the project site and the supportive vegetation community for this species is not found within the study area. This species was rediscovered in Presidio National Park in late 2009 after being believed to be extinct in the wild (although still extant through cultivation).
San Bruno Mountain manzanita <i>Arctostaphylos</i> <i>imbricata</i>		CE	1B.1	Chaparral and coastal scrub, usually on sandstone outcrops. February – May	No Potential. No manzanita shrubs were observed during the reconnaissance survey of the project site and the supportive vegetation community for this species is not found within the study area. Regional occurrences are restricted to San Bruno Mountain and the Santa Cruz Mountains; therefore this species is not expected on site.
Presidio manzanita Arctostaphylos montana (=hookeri) ssp. ravenii	FE	CE	1B.1	Open, rocky, serpentine slopes in chaparral, coastal scrub, and coastal prairie. February – March	No Potential. No manzanita shrubs were observed during the reconnaissance survey of the project site and the supportive vegetation community for this species is not found within the study area and therefore this species is not expected on site.
Pacific manzanita Arctostaphylos pacifica		CE	1B.2	Coastal scrub and chaparral. February – April	No Potential. No manzanita shrubs were observed during the reconnaissance survey of the project site and the supportive vegetation community for this species is not found within the study area; therefore this species is not expected on site.
Marsh sandwort Arenaria paludicola	FE	CE	1B.1	Freshwater or brackish marshes and swamps. May – August	No Potential . No suitable habitat on site; species presumed extirpated in San Francisco.
Sonoma sunshine Blennosperma bakeri	FE	CE	1B.1	Valley and foothill grasslands, freshwater wetlands, and vernal pools. March – May	No Potential. This species is not expected as there is no suitable habitat on site.
Robust spineflower Chorizanthe robusta var. robusta	FE		1B.1	Sandy or gravelly coastal dunes, coastal scrub, cismontane woodland and maritime chaparral. April – September	No Potential. This species is not expected as there is no suitable habitat on site.

TABLE BIO-1 (CONTINUED)
SPECIAL-STATUS OR OTHERWISE PROTECTED PLANT SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Plant Species Listed	or Propose	d for Listir	ng (Continued	d)	
Presidio clarkia Clarkia franciscana	FE	CE	1B.1	Serpentine outcrops in coastal scrub, and valley and foothill grassland. May – July	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
Marin western flax Hesperolinon congestum	FT	СТ	1B.1	Chaparral and grassland, usually on serpentine barrens. April – July	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
Beach layia Layia carnosa	FE	CE	1B.1	Sand dunes and coastal strand. March – July	No Potential. This species is not expected as there is no suitable habitat on site.
San Francisco lessingia Lessingia germanorum	FE	CE	1B.1	Coastal scrub, sandy soils free of competing species. July – November	No Potential. This species is not expected as there is no suitable habitat on site.
White-rayed pentachaeta Pentachaeta bellidiflora	FE	CE	1B.1	Open, dry, rocky slopes and grassy areas, usually on serpentine. March – May	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
San Francisco popcornflower Plagiobothrys diffusus		CE	1B.1	Coastal prairie, and valley and foothill grasslands. March – June	No Potential. This species is not expected as there is no suitable habitat on site.
Adobe sanicle Sanicula maritima		Rare	1B.1	Moist clay or ultramafic soil in chaparral, coastal prairie, meadows, seeps, and valley and foothill grassland. February – May	No Potential. This species is not expected as there is no suitable habitat on site and the nearest CNDDB ¹ record for this species is considered extirpated.
California seablite Suaeda californica	FE		1B.1	Coastal salt marshes and swamps. July – October	No Potential. A nearby CNDDB occurrence for a transplant is documented; however, the study area is out of the native range of this species. No suitable habitat is present on site and therefore this species is not expected on site.
Showy Indian (=two-fork) clover <i>Trifolium amoenum</i>	FE		1B.1	Valley grassland and wetland and riparian areas. Affinity to serpentine soils. April – June	No Potential. This species is not expected as there is no suitable habitat on site. Species requires heavy clay soils often associated with serpentine, conditions which are not present on site as project site is developed.

¹ California Natural Diversity Database (CNDDB) is an inventory of the status and locations of rare plants and animals in California maintained by the California Department of Fish and Wildlife.

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Spe	ecies			
Franciscan onion Allium peninsulare var. franciscanum			1B.2	Clay, volcanic, or serpentine substrate in valley and foothill grassland and cismontane woodland. May – June	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
Bent-flowered fiddleneck <i>Amsinckia lunaris</i>			1B.2	Coastal bluff scrub, cismontane woodland, and valley and foothill grassland. March – June	No Potential. This species is not expected as there is no suitable habitat on site.
Coast rock cress Arabis blepharophylla			4.3	Rocky soils in broadleaf upland forest, coastal bluff scrub, coastal prairie, and coastal scrub. February – May	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
Montara manzanita Arctostaphylos montaraensis			1B.2	Slopes and ridges in chaparral and coastal scrub. January – March	No Potential. No manzanita shrubs were observed during the reconnaissance survey of the project site and the supportive vegetation community for this species is not found within the study area and therefore this species is not expected on site.
Carlotta Hall's lace fern Aspidotis carlotta- halliae			4.2	Crevices, outcrops and slopes in chaparral and cismontane woodland, generally in serpentine soils. January – December	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site.
Nuttall's (=ocean bluff) milkvetch Astragalus nuttallii var. nuttallii			4.2	Coastal bluff scrub and coastal dunes, January – November	No Potential. This species is not expected as there is no suitable habitat on site.
Alkali milk-vetch Astragalus tener var. tener			1B.2	Alkali flats, flooded grassland, playas and vernal pools. March – June	No Potential. No suitable habitat present; species presumed extirpated in San Francisco.
Bristly sedge Carex comosa			2B.1	Lake margins, marshes, swamps, coastal prairie, and valley and foothill grasslands. May – September	No Potential This species is not expected as there is no suitable habitat on site.
northern meadow sedge Carex praticola			2B.2	Meadows and seeps in coastal prairie northern coastal coniferous forest. May – July	No Potential This species is not expected as there is no suitable habitat on site.

TABLE BIO-1 (CONTINUED)
SPECIAL-STATUS OR OTHERWISE PROTECTED PLANT SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Spe	ecies (conf	t.)		
Johnny-nip Castilleja ambigua var. ambigua			4.2	Wet sites in coastal bluff scrub, coastal prairie, marshes and swamps, valley and foothill grassland, and at the margins of vernal pools.	No Potential. This species is not expected as there is no suitable habitat on site.
				March – August	
Pappose tarplant Centromadia parryi ssp. parryi			1B.2	Chaparral, coastal prairie, meadows, seeps, coastal salt marshes and swamps, and vernally mesic, often alkaline, valley and foothill grasslands.	No Potential. This species is not expected as there is no suitable habitat on site.
Doint Dove hird's			1B.2	May – November	No Detential This ensuing is
Point Reyes bird's- beak Chloropyron maritimum ssp. palustre			18.2	Coastal salt marshes and swamps. June – October	No Potential. This species is not expected as there is no suitable habitat on site.
San Francisco spineflower			1B.2	Sandy terraces and slopes of coastal bluff scrub, coastal dunes, coastal	No Potential. This species is not expected as there is no suitable habitat on site.
Chorizanthe cuspidata var. cuspidata				prairie and coastal scrub. April – July	Gundale Habitat en Gro.
Franciscan thistle Cirsium andrewsii			1B.2	Coastal bluff scrub, coastal prairie, coastal mesic scrub, and broadleaf upland forest; sometimes on serpentine soils; often associated with seeps.	No Potential. Serpentine rock within the project site is subterranean and site lacks seep habitat preferred by this species. This species is not expected as there is no suitable habitat on site.
				March – July	
Mt. Tamalpais thistle Cirsium hydrophilum var. vaseyi			1B.2	Serpentine seeps in meadows, broadleafed upland forest, and chaparral. May – August	No Potential. Serpentine rock within the project site is subterranean and site lacks seep habitat preferred by this species. This species is not expected as there is no suitable habitat on site.
Compact cobwebby thistle Cirsium occidentale var. compactum			1B.2	Coastal scrub, grassland, and dunes; often associated with seeps. April – June	No Potential. This species is not expected as there is no suitable habitat on site.
Round-headed Chinese-houses Collinsia			1B.2	Coastal dunes and coastal prairie. April – June	No Potential. No suitable habitat present; species has no been seen in San Francisco for
corymbosa				,	more than 100 years.
San Francisco collinsia Collinsia multicolor			1B.2	On humus-covered soil derived from mudstone in closed-cone coniferous forest and coastal scrub.	No Potential. This species is not expected as there is no suitable habitat on site.

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Spe	ecies (con	t.)		
Marsh horsetail Equisetum palustre			3	Freshwater marshes and swamps.	No Potential. This species is not expected as there is no suitable habitat on site.
Slender cottongrass <i>Eriophorum gracile</i>			4.3	Acidic soils in bogs, and fens, meadows and seeps, and upper montane coniferous forest. May – September	No Potential. This species is not expected as there is no suitable habitat on site.
San Francisco wallflower <i>Erysimum</i> <i>franciscanum</i>			4.2, LS	Coastal scrub and grassland, often on serpentine soils. March – June	No Potential. Serpentine rock within the project site is subterranean. Weedy area in southeast portion of the site is highly disturbed and not suitable for this species. This species is not expected as there is no suitable habitat on site.
Fragrant fritillary Fritillaria liliacea			1B.2	On clay, often serpentine derived soils in coastal scrub, grassland, and coastal prairie. February – April	No Potential. Serpentine rock within the project site is subterranean. Suitable habitat for this species is not found on site. A nearby 1895 CNDDB occurrence from Potrero Hill is extirpated; therefore this species is not expected on site.
Blue coast gilia Gilia capitata ssp. chamissonis			1B.1	Coastal dunes and scrub. April – July	No Potential. This species is not expected as there is no suitable habitat on site.
Dark-eyed gilia Gilia millefoliata			1B.2	Coastal dunes. April – July	No Potential. This species is not expected as there is no suitable habitat on site.
San Francisco gumplant <i>Grindelia hirsutula</i> var. maritima			3.2	Coastal scrub and grasslands. June – September	No Potential. Weedy area in southeast portion of the site is highly disturbed and not suitable for this species. This species is not expected as there is no suitable habitat on site.
Diablo helianthella Helianthella castanea			1B.2	On rocky soils in broadleaf upland forest, cismontane woodland, coastal scrub, riparian woodland, and valley and foothill grassland. March – June	No Potential. This species is not expected as there is no suitable habitat on site.
White seaside (=congested- headed hayfield) tarplant Hemizonia congesta ssp. congesta			1B.2	Grassy valleys and hills, often on fallow fields in coastal scrub. April – November	No Potential. Weedy area in southeast portion of the site is highly disturbed and not suitable for this species. This species is not expected as there is no suitable habitat on site.

TABLE BIO-1 (CONTINUED)
SPECIAL-STATUS OR OTHERWISE PROTECTED PLANT SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Sp	ecies (con	t.)		
Short-leaved evax Hesperevax sparsiflora var.			1B.2	Sandy bluffs and flats in coastal scrub and coastal dunes.	No Potential. This species is not expected as there is no suitable habitat on site.
brevifolia				March – June	
Water star-grass Heteranthera dubia			2B.2	Marshes and swamps (alkaline, still or slow- moving water)	No Potential. This species is not expected as there is no suitable habitat on site.
				July – October	
Kellogg's horkelia Horkelia cuneata ssp. sericea			1B.1	Coastal scrub, dunes, and openings of closed-cone coniferous forests.	No Potential. This species is not expected as there is no suitable habitat on site.
, 				February – July	
Point Reyes Horkelia			1B.2	Coastal dunes, prairie, and scrub.	No Potential. This species is not expected as there is no suitable habitat on site.
Horkelia marinensis				May – September	Suitable habitat on site.
Island tube lichen Hypogymnia schizidiata			1B.3	Coastal scrub on or near old-growth shrubs in few locations throughout California and Mexico.	Low Potential. This species is not expected as there is no suitable habitat on site as currently understood for this species.
Coast iris Iris longipetala			4.2	Coastal prairie, lower montane coniferous forest, meadows and seeps, mesic sites. March – May	No Potential. This species is not expected as there is no suitable habitat on site.
Rose leptosiphon Leptosiphon rosaceus			1B.1	Coastal bluff scrub. April – July	No Potential. This species is not expected as there is no suitable habitat on site.
Arcuate bush mallow Malacothamnus arcuatus			1B.2	Gravelly alluvium in chaparral and cismontane woodland. April – September	No Potential. This species is not expected as there is no suitable substrate or habitat on site.
Mt. Diablo cottonweed <i>Micropus</i> <i>amphibolus</i>			3.2	Valley grassland, foothill woodland, and mixed evergreen forest with an affinity to serpentine soils. March – May	No Potential. Serpentine rock within the project site is subterranean. Weedy area in southeast portion of the site is highly disturbed and not suitable for this species. This species is not expected as there is no suitable habitat on site.
Marsh microseris Microseris paludosa			1B.2	Closed-cone coniferous forest, cismontane woodland, coastal scrub, and valley and foothill grassland. August – June	No Potential. This species is not expected as there is no suitable habitat on site.
Northern curly- leaved Monardella Monardella sinuata ssp. nigrescens			1B.2	Coastal dunes and scrub, chaparral, lower montane coniferous forest. (Apr) May – July (Aug- Sept)	No Potential. This species is not expected as there is no suitable habitat on site.

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Sp	ecies (con	t.)		
Choris's popcorn- flower Plagiobothrys chorisianus var. chorisianus			1B.2	Mesic sites in chaparral, coastal scrub, and coastal prairie. March – June	No Potential. This species is not expected as there is no suitable habitat on site.
Hairless popcornflower Plagiobothrys glaber			1A	Coastal salt marshes and alkaline meadows. March – May	No Potential. This species is not expected as there is no suitable habitat on site. This species is presumed extirpated in California.
Oregon polemonium Polemonium carneum			2B.2	Coastal prairie, coastal scrub, lower montane coniferous forest. April – September	No Potential. This species is not expected as there is no suitable habitat on site.
Chaparral ragwort Senecio aphanactis			2B.2	Chaparral, cismontane woodland and coastal scrub, sometimes in alkaline soil. January – April (May)	No Potential. This species is not expected as there is no suitable habitat on site.
Scouler's catchfly Silene scouleri ssp. scouleri			2B.2	Coastal bluff scrub, coastal prairie, and valley and foothill grassland. (Mar-May) June – August (Sept)	No Potential. This species is not expected as there is no suitable habitat on site.
San Francisco campion Silene verecunda ssp. verecunda			1B.2	Mudstone, shale, or serpentine substrates in coastal scrub, coastal prairie, chaparral and valley and foothill grassland. March – June	Low. Serpentine rock within the project site is subterranean. Some of the known occurrences of this species are located in disturbed, weedy habitats, and thus the high level of historic disturbance would not preclude this species. Weedy area in southeast portion of the site is highly disturbed, historically developed. This species is not expected as there is no suitable habitat on site.
Santa Cruz microseris Stebbinsoseris decipiens			1B.2	On sandstone, shale or serpentine derived seaward facing slopes in broadleaf upland forest, closed-cone coniferous forest, chaparral, coastal prairie, and coastal scrub. April – May	No Potential. Serpentine rock within the project site is subterranean. Some of the known occurrences of this species are located in disturbed, weedy habitats, and thus the high level of historic disturbance would not preclude this species. The project site is located outside of the understood range for this species and therefore it is not expected on site.
San Francisco owl's clover Triphysaria floribunda			1B.2	Usually serpentinite coastal prairie, valley grasslands, and coastal scrub. April – June	No Potential. Serpentine rock within the project site is subterranean. This species is not expected as there is no suitable habitat on site. A nearby CNDDB occurrence in Potrero has been extirpated.

Common Name Scientific Name	Federal Status	State Status	CRPR Ranking	Habitat Description / Blooming Period	Potential to Occur in the Study Area
California Rare Plant	Ranked Spe	ecies (con	t.)		
Coastal triquetrella Triquetrella californica			1B.2	This moss grows on coastal bluffs and in coastal scrub habitats.	No Potential. This species is not expected as there is no suitable habitat on site.
Locally Significant S	pecies				
Yellow carpet Blennosperma nanum			LS	Valley grassland, foothill woodland, and wetland-riparian areas. Often associated with vernal pool communities.	No Potential. This species is not expected as there is no suitable habitat on site.
				February – April	
California larkspur Delphinium californicum			LS	Foothill woodland and mixed conifer forest. April – June	No Potential. This species is not expected as there is no suitable habitat on site.
Coast larkspur Delphinium decorum			LS	Northern coastal scrub, coastal prairie, yellow pine forest and mixed evergreen forest.	No Potential. This species is not expected as there is no suitable habitat on site.
				March - July	
Purple spot gilia Gilia clivorum			LS	Valley grassland, northern coastal scrub, foothill woodland, ands mixed evergreen forest.	No Potential. This species is not expected as there is no suitable habitat on site.
				February - June	
Greene's saxifrage Micranthes californica			LS	Coastal sage scrub, closed-cone pine forest, red fir forest, foothill woodland and chaparral.	No Potential. This species is not expected as there is no suitable habitat on site.
Bitter cherry			LS	Evergreen forests.	No Potential. This species is
Prunus emarginata				April – May	not expected as there is no suitable habitat on site.
Holly leaf cherry Prunus ilicifolia			LS	Chaparral and foothill woodland. February – April	No Potential. This species is not expected as there is no suitable habitat on site.
California groundsel (Rayless ragwort) Senecio aronicoides			LS	Chaparral, yellow pine forest, red fir forest, lodgepole forest, and sagebrush scrub. April – July	Low. This species is not expected as there is no suitable habitat on site and species was not observed during botanical surveys.
Simple campion Silene scouleri ssp. scouleri			LS	Northern coastal scrub. July – August	No Potential. Weedy area in southeast portion of the site is highly disturbed and not suitable for this species. This species is not expected as there is no suitable habitat on site.

TABLE BIO-1 (CONTINUED)

SPECIAL-STATUS OR OTHERWISE PROTECTED PLANT SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

NOTES:

* The project study area for terrestrial biological resources includes the project site and landside areas adjacent to the project site with similar habitat composition that includes developed or paved areas with long-standing industrial uses.

The "Potential for Effect" category is defined as follows:

Present = Species was observed during reconnaissance or focused surveys of the project area.

High = Species is expected to occur, habitat meets species requirements and is of moderate or high quality, and the study area is within the known species range.

Moderate = Habitat is marginally suitable (i.e. of low or moderate quality) or the study area is within the known range of the species, even though the species was not observed during biological surveys.

Low = Habitat does not meet species requirements as currently understood in the scientific community or the site is not within a species' geographic range.

No Potential = Habitat does not meet species requirements or the species is presumed to be extirpated from the project area or region based on the best scientific information available.

FESA = Federal Endangered Species Act, CESA = California Endangered Species Act, CNDDB = California Natural Diversity Database

STATUS CODES:

Federal: U.S. Fish and Wildlife Service (USFWS)

FE = Listed as "endangered" under the FESA

FT = Listed as "threatened" under the FESA

FPD = Proposed delisted

FD = Delisted

State: California Department of Fish and Wildlife (CDFW)

CE = Listed as "endangered" under the CESA

CT = Listed as "threatened" under the CESA

CSC = CDFW designated "species of special concern"

CFP = CDFW designated "fully protected"

SC = CDFW designated "candidate threatened"

WL = CDFW designated "watch list"

California Rare Plant Rank (CRPR):

Rank 1A = Plants presumed extirpated in California and either rare or extinct elsewhere.

Rank 1B = Plants rare, threatened, or endangered in California and elsewhere.

Rank 2A = Plants presumed extirpated in California, but more common

Rank 2B = Plants rare, threatened, or endangered in California, but more common elsewhere

Rank 3 = Plants about which we need more information - a review list

Rank 4 = Plants of limited distribution - a watch list

An extension reflecting the level of threat to each species is appended to each rarity category as follows:

- .1 Seriously endangered in California.
- .2 Fairly endangered in California.
- .3 Not very endangered in California.

LS = Locally Significant Plant Species for San Francisco County as designated by the CNPS Yerba Buena Chapter

SOURCE:

CDFW, 2018. California Natural Diversity Database (CNDDB) Rarefind version 5 query of the San Francisco North and San Francisco South USGS 7.5-minute topographic quadrangles, Commercial Version. Accessed August 13, 2018.

California Native Plant Society (CNPS), Inventory of Rare and Endangered Plants for San Francisco North and San Francisco South USGS 7.5-minute topographic quadrangles, http://www.rareplants.cnps.org/result.html?adv=t&quad=3712264:3712274, accessed August 13, 2018.

U.S. Fish and Wildlife Service (USFWS), 2018. My Project, IPaC Trust Resource Report and Official Species List of Federally Endangered and Threatened Species that may occur in the Potrero Power Station Mixed-Use Development Project location, and/or may be affected by the proposed project, August 13, 2018.

TABLE BIO-2 SPECIAL-STATUS OR OTHERWISE PROTECTED ANIMAL SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Species Listed or P	roposed for	Listing		
Invertebrates				
San Bruno elfin butterfly Callophrys mossii bayensis	FE	*	Coastal scrub or grassland on rocky outcrops with broadleaf stonecrop (Sedum spathulifolium).	No Potential. Three known populations occur at San Bruno Mountain, Montara, and Pacifica. The only vegetated portion of the project site is dominated by sweet fennel and coyote bush. Host plants for this species were not observed during reconnaissance survey and site conditions are not conducive to supporting host plants; therefore this species is not expected on site.
Bay checkerspot butterfly Euphydryas editha bayensis	FT	*	Serpentine grasslands with larval host plants dwarf plantain (<i>Plantago erectis</i>) and purple owl's clover (<i>Castilleja exserta spp. exerta</i>).	No Potential. The only vegetated portion of the project site is dominated by sweet fennel and coyote bush. Host plants for this species were not observed during reconnaissance survey and site conditions are not conducive to supporting host plants; therefore this species is not expected on site.
Mission blue butterfly Plebejus icarioides missionensis	FE	*	Grassland with <i>Lupinus</i> albifrons, L. Formosa, and <i>L. varicolor</i> .	No Potential. The only vegetated portion of the project site is dominated by sweet fennel and coyote bush. Host plants for this species were not observed during reconnaissance survey and site conditions are not conducive to supporting host plants; therefore this species is not expected on site.
Callippe silverspot butterfly Speyeria callippe callippe	FE	*	Found in native grasslands with Viola pedunculata as larval food plant.	No Potential. Although a CNDDB occurrence occurs 2.8 miles to the south, site conditions are not conducive to supporting host plants; therefore this species is not expected on site.
Myrtle's silverspot butterfly Speyeria zerene myrtleae	FE	*	Host plants include Grindelia hirsutula, Abronia latifolia, Mondardella, Cirsium vulgare, and Erigeron glaucus where found on the San Francisco and Marin peninsulas.	No Potential. The only vegetated portion of the project site is dominated by sweet fennel and coyote bush. Host plants for this species were not observed during reconnaissance survey and site conditions are not conducive to supporting host plants; therefore this species is not expected on site.
Reptiles				
San Francisco garter snake Thamnophis sirtalis tetrataenia	FE	CE, CFP	Densely vegetated ponds near open hillsides with abundant small mammal burrows.	No Potential. This species is considered likely extirpated from San Francisco. No suitable habitat occurs in or near the study area; therefore this species is not expected on site.
Green sea turtle Chelonia mydas	FT		Range in the eastern North Pacific Ocean from Baja California to Alaska, most commonly from San Diego South. When in nearshore foraging grounds, turtles feed on seagrasses and algae.	Low Potential. Unlikely to occur in San Francisco Bay along the project site.

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Species Listed or P	roposed for	Listing (co	ontinued)	
Amphibians				
California red- legged frog Rana draytonii	FT	CSC	Freshwater ponds and slow streams with emergent vegetation for	No Potential. No suitable breeding or upland dispersal habitat occurs in or near the project site; therefore, this species is not expected on site.
			egg attachment.	on site.
Birds				
Western snowy	FT	CSC	Sandy beaches, salt pond	Low (No nesting potential). The shoreline
plover			levels and shores of alkali lakes. Needs sandy,	is armored with riprap and the surrounding area is developed. Beach foraging habitat is
Charadrius alexandrinus nivosus			gravelly or friable soils for nesting.	not available onsite to attract this species.
American peregrine falcon	FD	CD, CFP	Woodlands, coastal habitats, riparian areas,	Moderate (Potential to nest). There are no adequate natural features for this species;
Falco peregrines anatum			coastal and inland waters, human made structures that may be used as nest or temporary perch sites.	however, the onsite buildings may provide potential nest sites. May hunt birds above the study area.
Bald eagle	FD	CE,	CE, Nests and forages on inland lakes, reservoirs, and rivers.	Low (No nesting potential). Unlikely to nest in an urban environment lacking nesting habitat. May forage for fish in the San Francisco Bay and scavenge for carcasses on the shoreline.
Haliaeetus leucocephalus		CFP		
(nesting and wintering)				
California black rail		CT, CFP	Salt and brackish marshes; also in freshwater marshes	No Potential. No suitable habitat present in the study area.
Laterallus jamaicensis coturniculus			at low elevations.	
Brown pelican	FD	CD, CFP	Pelagic forager along	Present (No nesting potential). Forages in
Pelecanus occidentalis californicus		CFF	ocean and bay shorelines whose breeding range extends from the Channel Islands south to Mexico.	the San Francisco Bay. Could loaf on dilapidated piers in the project study area.
(nesting colony and communal roosts)				
Short-tailed albatross	FE	CSC	A pelagic species that spends most of its time at	Low (No nesting potential). Breeds only at one or two sites off the coast of Japan,
Phoebastria (=Diomedea) albatrus			sea and returns to land only for breeding purposes.	occasional visitor to California coast and could appear on a transient basis offshore of the study area.
Ridgway's rail Rallus obsoletus obsoletus	FE	CE, CFP	Salt marsh wetlands with dense vegetation along the San Francisco Bay.	No Potential (No nesting potential). A recent CNDDB occurrence is documented nearby (1.5 miles south). Suitable habitat is not present within the study area and the species is not known to travel long distances; therefore this species is not expected on site.

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Species Listed or P	roposed for	Listing (c	ontinued)	
Birds (cont.)				
Bank swallow Riparia riparia (nesting)		СТ	Vertical banks and cliffs with sandy soil, near water. Nests in holes dug in cliffs and river banks.	Low (No nesting potential). No suitable nesting habitat in the study area. Species may occur on a transient basis while foraging.
California least tern Sternula antillarum browni	FE	CE, CFP	Open beaches free of vegetation along the California coast.	Low (No nesting potential). Forages near the Bay shoreline. The project site shoreline is nearly completely armored with riprap and is bounded by paved, active parking lots. Nesting sites are not known to the study area. Closest nesting site is located on Alameda NAS, and it is unlikely this species would travel as far as the project site for foraging.
Mammals				
Salt marsh harvest mouse	FE	CE, CFP	Salt marsh habitat dominated by pickleweed.	No Potential. Suitable habitat for this species is not found in the project study area
Reithrodontomys raviventris				
Other Special-Statu	s Species			
Invertebrates				
Monarch butterfly Danaus plexippus	-	*	Eucalyptus groves (wintering sites).	Low. Several records of this species in Golden Gate Park but no wintering sites have been identified within the study area. Few eucalyptus trees are located at the base of Irish Hill north of the project site and individuals may occur in the project vicinity during migration; however, the Irish Hill eucalyptus trees are not abundant and protected enough to support a roosting colony.
Tomales isopod Caecuditea tomalensis			Still to slow-moving water in vegetated ponds, preferably spring-fed.	No Potential. No suitable habitat present in the study area; therefore this species is not expected on site.
Amphibians				
California giant salamander Dicamptodon ensatus		CSC	Wet coastal forests in or near cold, permanent and semi-permanent streams and seepages.	No Potential. Freshwater stream habitat is not present within or near the study area; therefore this species is not expected on site
Reptiles				
Western pond turtle Actinemys marmorata		CSC	Ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Requires basking sites and suitable upland habitat for egglaying. Nest sites most often characterized as having gentle slopes (<15%) with little vegetation or sandy banks.	No Potential. Freshwater habitat is not present within or near the study area; therefore this species is not expected on site

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Other Special-Statu	s Species (d	cont.)		
Birds				
Clark's grebe	BCC		Freshwater lakes and	Present (No nesting potential). Regularly
Aechmophorus			marshes with extensive open water bordered by	observed in open water off-shore of the project site while foraging in winter.
clarkii			vegetation. Nest is typically built on floating vegetation hidden among emergent plants. Typically found in saltwater or brackish water environments like San Francisco Bay during winter.	
Tricolored blackbird	BCC	SCE, CSC	Nests in dense colonies within sloughs, swamps, and marshes where tall	Low (No nesting potential). No suitable nesting or foraging habitat is present in the study area. May occur on a transient basis
Agelaius tricolor (nesting colony)			aquatic vegetation is present. Nests can extend into upland scrub habitat on colony fringes.	during migration.
Great blue heron Ardea herodias		§3503	Shallow estuaries and fresh and saline emergent wetlands.	Moderate (No nesting potential). May forage along the study area shoreline. No existing rookeries occur within the study area; therefor this species is not expected to nest on site.
Western burrowing owl Athene cunicularia (burrow sites and some wintering grounds)	BCC	CSC	Open grasslands with low or no vegetation where existing rodent burrows occur for occupation.	Low (No nesting potential). No suitable nesting or foraging habitat is present in the study area that is almost entirely developed. Ruderal vegetation within the Potrero Point Park location (sweet fennel) does not provide habitat elements preferred by this species; therefore this species is not expected on site
Oak titmouse Baeolophus inornatus	всс	§3503	Open, dry oak woodlands.	Low (No nesting potential). No suitable nesting or foraging habitat is present in the study area that is almost entirely developed and lacks oak trees; therefore this species is not expected on site.
Black swift	всс	CSC	Breeds in areas with cliff	Low (Unlikely to nest). May occur over the
Cypseloides niger (nesting)			faces, on coasts or inland canyons. Nests are in sheltered crevices or ledges under overhangs near water, such as a seep or waterfall.	project study area while foraging. This species would generally be attracted to habitats with more vegetation and foraging opportunity than found on the project site.
San Francisco common yellowthroat Geothlypis trichas	BCC	CSC	Forages in various marsh, riparian and upland habitats. Nests on or near the ground in concealed	Low (No nesting potential). No suitable nesting or foraging habitat is present in the study area that is almost entirely developed and lacks riparian vegetation; therefore this
sinuous			locations.	species is not expected on site.
Black oystercatcher Haematopus bachmani	BCC	§3503	Rocky shoes along the Pacific coast from the Aleutian Islands to Baja California.	Moderate (Unlikely to nest). Individuals may forage among the riprap along the eastern shoreline of the project site. Nesting not previously documented on eastern shoreline of San Francisco. Observed in Warm Water Cove south of the project site (eBird, 2018).

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Other Special-Statu	s Species (d	cont.)		
Birds (cont.)				
California gull Larus californicus		WL, §3503	Colonial nester, sometimes with other bird species. Breeds primarily at lakes and marshes in interior western North America from Canada south to eastern California and Colorado. Birds that breed inland are migratory, most moving to the Pacific coast in winter.	Present (Unlikely to nest). Breeds in large numbers at the salt ponds of south San Francisco Bay. May forage off-shore of the study area.
Western gull Larus occidentalis		§3503	Colonial nester on offshore islands or piers, sometimes with seabirds.	Present (Potential to nest). Breeds in San Francisco Bay Area. May forage off-shore of the study area and nest on building roofs of the study area and the dilapidated offshore piers within the study area. Previous nesting sites documented at Pier 60 and 64 north of the study area. ²
Short-billed dowitcher Limnodromus griseus	BCC	§3503	Saltwater tidal flats, beaches, and salt marshes during migration.	Low (No nesting potential). Common winter migrant that could occur along the eastern shoreline of the study area during low tide events.
Marbled godwit Limosa fedoa	BCC	§3503	Shoreline mudflats and beaches.	Low (No nesting potential). Common winter migrant that could occur along the eastern shoreline of the study area during low tide events.
Alameda song sparrow Melospiza melodia pusillula		CSC	Salt marshes of eastern and south San Francisco Bay.	Low (No nesting potential). No suitable saltmarsh vegetation for nesting or foraging is present in the study area that is almost entirely developed; therefore this species is not expected on site.
San Pablo song sparrow Melospiza melodia samuelis		CSC	Salt marshes of eastern and north San Francisco Bay.	No Potential (No nesting potential). No suitable saltmarsh vegetation for nesting or foraging is present in the study area that is almost entirely developed. The study area is outside of the understood range for this species; therefore this species is not expected on site.
Long-billed curlew Numenius americanus	BCC	WL, §3503	Breeds in upland shortgrass prairies and wet meadows in northeastern California in gravelly soils. Winter visitor to the San Francisco Bay Area.	Low (No nesting potential). Unlikely to occur event during low tide events within the study area due to limited sandy areas for foraging.
Whimbrel Numenius phaeopus	BCC	§3503	Saltwater tidal flats, beaches, and salt marshes during migration.	Low (No nesting potential). Unlikely to occur event during low tide events within the study area due to limited foraging habitat for this species.

² Golden Gate Audubon Society and San Francisco Bay Bird Observatory, 2009. Summary Report of Avian Surveys Conducted in 2008 at Dilapidated Piers and Other Structures along the Port of San Francisco's Southern Waterfront Properties. Prepared by Noreen Weeden and Michael Lynes, September 23.

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Other Special-Statu	s Species (d	cont.)		
Birds (cont.)				
Osprey Pandion haliaetus		WL, §3503	Habitat varies greatly and usually includes adequate supply of accessible fish, shallow waters, open and elevated nest sites (10-60 feet in height), and artificial structures such as towers. Builds large platform stick nests near or in open waters.	Moderate (Potential to nest). Known to forage in San Francisco Bay and recently nest at Pier 80. Open buildings and structures of the project site and towers of the study area provide potential nesting sites for this species.
Double-crested cormorant Phalacrocorax auritus		WL, §3503	Rookery breeder in coastal areas and inland lakes in fresh, saline, and estuarine waters.	Present (Potential to nest). Abundant in San Francisco Bay. May forage off-shore of the study area and nest on the dilapidated offshore piers of the study area.
Nuttall's woodpecker Picoides nuttallii	BCC	§3503	Oak and riparian woodlands.	Low (No nesting potential). No suitable nesting or foraging habitat is present in the study area that is almost entirely developed and lacks riparian vegetation and oak woodlands; therefore this species is not expected on site.
Black skimmer Rynchops niger (nesting colony)	BCC	CSC	Sandy beaches, gravel and shell bars with sparse vegetation along the coast. Colony breeders which nest on the ground in shallow scrape nests.	Low (No nesting potential). May forage over the open water off-shore of the project study area.
Allen's hummingbird Selasphorus sasin	ВСС	§3503	Brush and woodlands.	Moderate (Potential to nest). May forage and nest within fennel and coyote brush shrubs of the project site.
Lawrence's goldfinch Spinus lawrencei	BCC	§3503	Open woodlands, chaparral near fields for foraging seeds.	Low (No nesting potential). Uncommon to San Francisco. Could occur on a transient basis and forage on fennel of the project site.
Caspian tern (Sterna caspia)	BCC	*	Nests on shorelines and feeds on fish and crustaceans in open water or shorelines.	Present (Potential to nest). Breeds in San Francisco Bay. May forage off-shore of the study area and nest on the dilapidated offshore piers of the study area. Previous nesting sites documented at Pier 60 and 64 north of the study area.
Barn owl Tyto alba		§3503. 5	Open areas including chaparral, grassland, riparian, wetlands.	Moderate (Potential to nest). Could forage over ruderal and developed areas of the study area and nest in vacant buildings of the project site.

Golden Gate Audubon Society and San Francisco Bay Bird Observatory, 2009. Summary Report of Avian Surveys Conducted in 2008 at Dilapidated Piers and Other Structures along the Port of San Francisco's Southern Waterfront Properties. Prepared by Noreen Weeden and Michael Lynes, September 23.

Common Name Scientific Name	Federal Status	State Status	Habitat Description / Blooming Period	Potential to Occur in the Study Area
Other Special-Statu	s Species (d	cont.)		
Mammals				
Pallid bat Antrozous pallidus		CSC, WBW G: High	Prefers caves, crevices, hollow trees, or buildings in areas adjacent to open space for foraging. Associated with lower elevations in California.	Moderate . Suitable roosting habitat for this species is available within vacant buildings of the project site.
Townsend's big- eared bat Corynorhinus townsendii		CSC, WBW G: High	Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings of rocky areas with caves or tunnels. Roosting sites limited. Extremely sensitive to human disturbance.	Low. Suitable roosting habitat for this species is available within vacant buildings of the project site; however high levels of human disturbance in the project vicinity may discourage use.
Western red bat Lasiurus blossevillii		CSC, WBW G: High	Roosts primarily in trees, 2-40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Low. Suitable roosting sites for this species are not found within the project site. The few eucalyptus trees located on Irish Hill north of the Project Site are fairly exposed and are unlikely to support roosting sites for this species that prefers broad-leaved riparian trees.
			Could forage over San Francisco Bay.	
Hoary bat Lasiurus cinereus		*, WBW G: Mediu m	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths; requires water.	Low. Suitable roosting sites not found within the project site. The few eucalyptus trees located on Irish Hill north of the project site are fairly exposed and are unlikely to support roosting sites for this species.
			Could forage over San Francisco Bay.	
Yuma myotis Myotis yumanensis		*, WBW G: Low- Mediu m	Optimal habitats are open forests and woodlands with water sources to feed over. Roosts in buildings, trees, mines, caves, bridges, and rock crevices. Maternity colonies active May through July.	Moderate. Suitable roosting habitat for this species is available within vacant buildings of the project site.
American badger Taxidea taxus		CSC	Open grasslands with loose, friable soils.	No Potential. No suitable habitat present on site.
Point Reyes jumping mouse Zapus trinotatus orarius		CSC	Upland areas of bunch grass in marshes in Point Reyes.	No Potential. Study area is south of the known range for this species. No suitable habitat is present on site.

TABLE BIO-2 (CONTINUED)

SPECIAL-STATUS OR OTHERWISE PROTECTED ANIMAL SPECIES THAT MAY OCCUR IN THE TERRESTRIAL STUDY AREA

NOTES:

* The project study area for terrestrial biological resources includes the project site and landside areas adjacent to the project site with similar habitat composition that includes developed or paved areas with long-standing industrial uses.

The "Potential for Effect" category is defined as follows:

Present = Species was observed during reconnaissance or focused surveys of the project area.

High = Species is expected to occur, habitat meets species requirements and is of moderate or high quality, and the study area is within the known species range.

Moderate = Habitat is marginally suitable (i.e. of low or moderate quality) or the study area is within the known range of the species, even though the species was not observed during biological surveys.

Low = Habitat does not meet species requirements as currently understood in the scientific community or the site is not within a species' geographic range.

No Potential = Habitat does not meet species requirements or the species is presumed to be extirpated from the project area or region based on the best scientific information available.

FESA = Federal Endangered Species Act, CESA = California Endangered Species Act,

CNDDB = California Natural Diversity Database

Federal: U.S. Fish and Wildlife Service (USFWS)

FE = Listed as "endangered" under the FESA

FT = Listed as "threatened" under the FESA

FPD = Proposed delisted

FD = Delisted

BCC = Bird of Conservation Concern

State: California Department of Fish and Wildlife (CDFW)

CE = Listed as "endangered" under the CESA

CT = Listed as "threatened" under the CESA

CD = Delisted

CSC = CDFW designated "species of special concern"

CFP = CDFW designated "fully protected"

SCE = CDFW designated "candidate endangered"

SCT = CDFW designated "candidate threatened"

WL = CDFW designated "watch list"

§3503 = Eggs, Nests, and Nestlings Protected under Section 3503 of the California Fish and Game Code

 $\S3503.5 = Eggs$, Nests, and Nestlings of Falconiformes and Strigiformes Protected under Section

3503.5 of the California Fish and Game Code

* = California special animal

Other: Western Bat Working Group (WBWG)

Low = Stable population

Medium = Need more information about the species, possible threats, and protective actions to implement.

High = Imperiled or at high risk of imperilment.

SOURCES

CDFW, 2018. California Natural Diversity Database (CNDDB) Rarefind version 5 query of the San Francisco North and San Francisco South USGS 7.5-minute topographic quadrangles, Commercial Version. Accessed August 13, 2018.

U.S. Fish and Wildlife Service (USFWS), 2018. My Project, IPaC Trust Resource Report and Official Species List of Federally Endangered and Threatened Species that may occur in the Potrero Power Station Mixed-Use Development Project location, and/or may be affected by the proposed project, August 13, 2018.

TABLE BIO-3 SPECIAL-STATUS FISH AND MARINE MAMMAL SPECIES THAT MAY OCCUR IN THE BAY WATERS OF THE STUDY AREA

Common Name Scientific Name	Federal Status	State Status	Habitat Description	Potential to Occur in the Study Area	Time Period Present in Study Area Waters
Fish					
Sacramento River winter-run ESU Chinook salmon Oncorhynchus tshawytscha	FE/-	CE	Ocean waters, Sacramento and San Joaquin Rivers; Migrates from ocean through San Francisco Bay-Delta to freshwater spawning grounds	Low. No foraging of spawning habitat for this species is present. No streams supporting spawning runs are present within or in the vicinity of the project site. There is a low potential for incidental occurrence of this species if individuals stray from migration routes.	Adults - November and December Juveniles – fall and winter
Central Valley spring-run ESU Chinook salmon O. tshawytscha	FT/-	СТ	Ocean waters, Sacramento and San Joaquin Rivers; Migrates from ocean through San Francisco Bay-Delta to freshwater spawning grounds	Low. No foraging of spawning habitat for this species is present. No streams supporting spawning runs are present within or in the vicinity of the project site. There is a low potential for incidental occurrence of this species if individuals stray from migration routes.	Adults - late winter to spring Juveniles - fall though spring
Central Valley fall-run/late fall- run ESU Chinook salmon O. tshawytscha.	FSC/-	-	Ocean waters, Sacramento and San Joaquin Rivers; Migrates from Ocean through San Francisco Bay-Delta to freshwater spawning grounds	Low. No foraging of spawning habitat for this species is present. No streams supporting spawning runs are present within or in the vicinity of the project site. There is a low potential for incidental occurrence of this species if individuals stray from migration routes.	Adults - June through September Juveniles - winter through summer
Central Valley DPS steelhead O. Mykiss	FT/-	-	Ocean waters, Sacramento and San Joaquin Rivers; Migrates from ocean through San Francisco Bay-Delta to freshwater spawning grounds	Low. No foraging or spawning habitat for this species is present. No streams supporting spawning runs are present within or in the vicinity of the marine study area. There is a low potential for incidental occurrence of this species if individuals stray from migration routes.	Adults - winter and spring Juveniles - year-round
Central California coast DPS steelhead O. mykiss	FT/-	CSC	Ocean waters, Sacramento and San Joaquin Rivers; Migrates from Ocean through San Francisco Bay-Delta to freshwater spawning grounds	Moderate. No foraging or spawning habitat for this species is present. No streams supporting spawning runs are present within or in the vicinity of the marine study area. There is a low potential for incidental occurrence of this species if individuals are lost or swept into the area by currents.	Adults - winter Juveniles – year-round
Green Sturgeon (Southern DPS) Acipenser medirostris	FT/-	CSC	Marine and estuarine environments and Sacramento River; All of San Francisco Bay-Delta	Present. This species migrates from the Pacific Ocean to spawning habitat in the Sacramento River watershed but may forage in or near the project area.	Year-round

TABLE BIO-3 (CONTINUED) SPECIAL-STATUS FISH AND MARINE MAMMAL SPECIES THAT MAY OCCUR IN THE BAY WATERS OF THE STUDY AREA

Common Name Scientific Name	Federal Status	State Status	Habitat Description	Potential to Occur in the Study Area	Time Period Present in Study Area Waters
Fish (cont.)		<u>l</u>			
Longfin smelt Spirinchus thaleichthys	FC/-	СТ	Throughout the nearshore coastal waters and open waters of San Francisco Bay- Delta including the river channels and sloughs of the Delta	Present. This species is documented to inhabit the deep channels of Central Bay for most of the year, including the waters adjacent to the project site.	Year-round
Marine Mammals					
Southern Sea Otter Enhydra lutris nereis	FT	CFP	Nearshore environments between Santa Barbara and Half Moon Bay. Although historic inhabitants of San Francisco Bay prior to being hunted to near extinction, occasional sightings of otters within the Bay occur.	Low. Species is an infrequent visitor to San Francisco Bay and historically have limited their visitations to the waters between the Golden Gate and Alcatraz Island, including Richardson Bay.	Potentially Year-round
Gray whale Eschrichtus robustus	FDL/P	-	Predominantly coastal waters, although occasional individuals enter the Bay-Delta and have been observed swimming up the Sacramento River and into the South Bay.	Low. Species is an infrequent visitor to San Francisco Bay.	December to April, during migration from Alaska to Baja California, occasionally enter Bay- Delta, transient
Humpback whale Megoptera noveangli	FE/FD	-	Predominantly coastal waters, although occasional individuals enter the Bay-Delta	Low. Species is an infrequent visitor to San Francisco Bay.	April to December, during migration, occasionally enter the Bay- Delta, transient
Northern Elephant Seal <i>Mirounga</i> <i>angustirostris</i>	-/P	-	Northern elephant seals are the largest phocid, or "true" seal, in the Northern Hemisphere. They are found in the eastern and central North Pacific Ocean. They range as far north as Alaska and as far south as Mexico, with established Central California breeding colonies on the Farallon Islands, at Año Nuevo State Park, and near San Simeon, California. In recent years, young -of-the-year individuals have been observed hauling out on the sandy beach at Crissy field.	Low. Occurrence and presence within Central Bay has steadily increased over recent years with individuals entering the Bay on an annual basis. Additionally, its presence beyond the Central Bay waters between the Golden Gate and Alcatraz Island is also increasing with recent occurrences in North Bay. No sightings in south Central Bay have been reported as yet.	Primarily April to August with occasional occurrences in October and November. Not known to be present beyond the western segment of Central Bay.

TABLE BIO-3 (CONTINUED) SPECIAL-STATUS FISH AND MARINE MAMMAL SPECIES THAT MAY OCCUR IN THE BAY WATERS OF THE STUDY AREA

Common Name Scientific Name	Federal Status	State Status	Habitat Description	Potential to Occur in the Study Area	Time Period Present in Study Area Waters
Fish (cont.)					
Harbor porpoise Phocoena phocoena	-/P	-	An inshore species inhabiting shallow, coastal waters and occasional large rivers, including San Francisco Bay-Delta	Moderate. The resident population has been steadily increasing in numbers and extending its foraging range within the Bay beyond the waters between the Golden Gate and Alcatraz Island. Observations have been made as far north as the Napa River mouth to the north and the Oakland-San Francisco Bay Bridge to the south.	Year-round
Pacific harbor seal Phoca vitulina richardsii	-/P	-	Coastal waters, and throughout Bay-Delta	Moderate. Species frequents the waters of the San Francisco shoreline.	Year-round
Bottlenose Dolphin Tursiops truncatus	-/P	-	Found along the California coastline, bottlenose dolphins segregate into coastal or oceanic ecotypes with the coastal ecotype inhabiting waters within 1- Kilometer of shore normally between Baja, California and Point Conception. During El Niño events and in recent years, bottlenose dolphins have been observed as far as San Francisco Bay with individuals making occasional forays to the Golden Gate.	Low. Documented Central Bay presence is currently limited to waters between the Golden Gate and Alcatraz Island; individuals are capable of foraging over a larger area if prey fish are present.	Potentially Year-round
California sea lion Zalophus californianus	-/P	-	Coastal waters, and throughout Bay-Delta	Moderate. Species frequents the waters of the San Francisco shoreline, predominantly in west Central Bay, but will forage throughout the Bay.	Year-round

NOTES:

The "Potential for Occurrence within the Project Area" category is defined as follows:

High = Suitable foraging or spawning/rookeries/birthing habitat is present and/or the species has been documented to be present throughout the year and/or in substantial numbers.

Moderate = Suitable foraging or spawning//rookeries/birthing habitat is present and/or the species has been documented to be present for part of the year

Low = Suitable foraging or spawning/rookeries/birthing habitat is present, but the species has either not been documented to be present or if present, the presence is infrequent.

No Potential = Suitable foraging or spawning/rookeries/birthing habitat is not known to be present and the species has not been documented to occur

FESA = Federal Endangered Species Act, MMPA = Marine Mammal Protection Act, CESA = California Endangered Species Act

TABLE BIO-3 (CONTINUED)

SPECIAL-STATUS FISH AND MARINE MAMMAL SPECIES THAT MAY OCCUR IN THE BAY WATERS OF THE STUDY AREA

STATUS CODES:

Federal: U.S. Fish and Wildlife Service (USFWS)

FDL = Delisted

FE = Listed as "endangered" (in danger of extinction) under FESA FT = Listed as "threatened" (likely to become Endangered within the foreseeable future) under FESA

FC = Candidate to become a proposed species

FSC = Former "federal species of concern". The USFWS no longer lists Species of Concern but recommends that species considered to be at potential risk by a number of organizations and agencies be addressed during project environmental review. *NMFS still lists "Species of Concern".

Federal: National Oceanographic and Atmospheric

Administration (NOAA) MMPA FD = Depleted Population

P = Federally Protected

State: California Department of Fish and Wildlife (CDFW)

CE = Listed as "endangered" under the CESA CT = Listed as "threatened" under the CESA

CSC = CDFW designated "species of special concern"

SOURCES:

Bartling, R. 2006. Pacific herring. Status of the Fisheries Report. California Department of Fish and Game

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Moyle, P. B., R. M. Yoshiyama, J. E. Williams, and E. D. Wikramanayake. 1995. Fish Species of Special Concern in California. Second edition. Final report to California Department of Fish and Game, contract 2128IF.

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TABLE BIO-4
MANAGED FISH SPECIES KNOWN TO OCCUR IN CENTRAL SAN FRANCISCO BAY UNDER THE MAGNUSON-STEVENS ACT

Fisheries Management Plan	Common Name	Scientific Name	Life Stage	Abundance
Canatal Dalagia	Northern anchovy	Engraulis mordax	J, A	Abundant
Coastal Pelagic	Jack mackerel	Trachurus symmetricus	E, L	Present
	English sole	Parophrys vetulus	J, A	Abundant
	Pacific sanddab	Citharichthys sordidus	E, L, J, A	Present
	Starry flounder	Platichthys stellatus	J, A	Present
	Lingcod	Ophiodon elongatus	J, A	Present
Pacific Groundfish	Brown rockfish	Sebastes auriculatus	J	Present
	Kelp greenling	Hexagrammos decagrammus	J, A	Present
	Leopard shark	Triakis semifasciata	J, A	Present
	Spiny dogfish	Squalus acanthias	J, A	Present
	Big Skate	Raja binoculata	J, A	Present
Pacific Coast Salmonids	Chinook salmon	Oncorhynchus tshawytscha	J, A	Seasonally Present

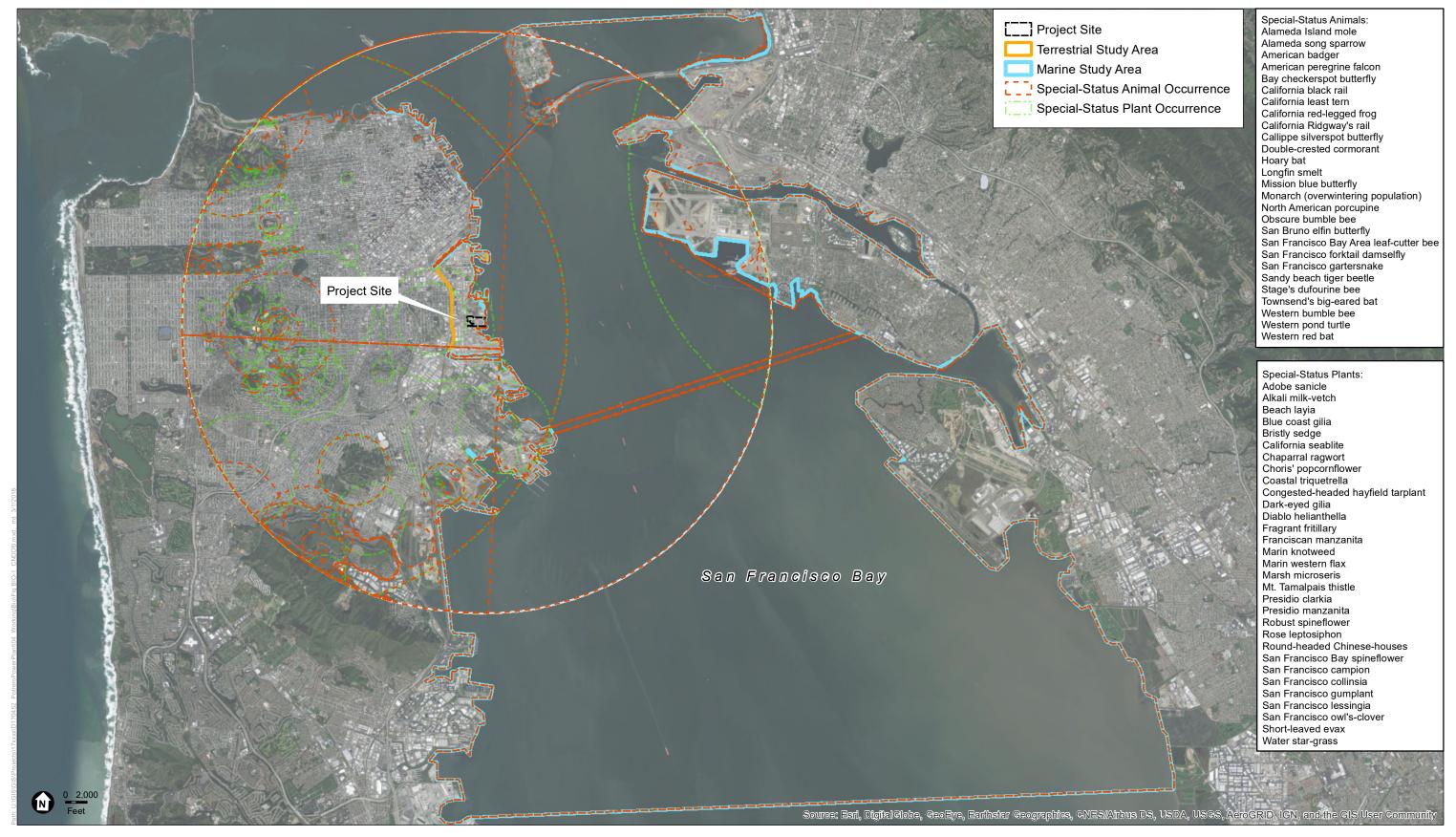
NOTES:

A = Adult J = Juvenile L = Larvae E = Egg

SOURCES:

Pacific Fishery Management Council. 2017. Coastal Pelagic FMP, Pacific Groundfish FMP, and Pacific Coast Salmonids FMP Species Lists. Available at https://www.pcouncil.org/.

California Department of Fish and Wildlife (CDFW). 2014. Interagency Ecological Program - unpublished midwater trawl data 2010-2014. Available at ftp://ftp.dfg.ca.gov/.



SOURCE: California Department of Fish and Wildlife, 2018. California Natural Diversity Database (CNDDB) GIS Database. Biogeographic Data Branch, Sacramento, CA. Data dated January, 2018.

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