Biological Resources Letter Report
for the Oro Verde Project
Project Number PDS2022-TPM-21323

Prepared for:

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1 SUMMARY

The proposed Oro Verde project is approximately 51.2 acres located directly southeast of the City of Escondido, in an unincorporated portion of San Diego County, as shown in Figure 1. The project site is located at 2000 Oro Verde Road, north and east of the Diamond Ranch Road and Royal View Road intersection, approximately 3 miles northeast of Interstate 15. State Route 78 (SR-78) traverses from east to west approximately 0.5 miles to the south of the proposed project site.

The Oro Verde project proposes the subdivision of an approximately 51.2-acre parcel (APN 241-140-02-00) into two parcels (4.04 acres and 47.15 acres). On-site impacts are contained within the 4.04-acre proposed northern parcel and were previously permitted as a part of PDS2014-TM-5583. No additional grading is proposed.

Active agricultural operations began on-site in 1960, and have consistently continued on-site. The site continues to provide avocados for commercial production on approximately 44 acres, although many of the trees on-site are past the age of peak production. The remainder of the property provides supporting structures and staging for avocado distribution. A portion of the project also contains a County of San Diego open space easement along the southwestern edge.

Biological resources present within the project site are limited and include four intermittent stream channels, four patches of herbaceous wetlands, and two areas of disturbed oak riparian forest which is located primarily off-site (Figure 2). Seven special-status wildlife species were directly or indirectly observed within or adjacent to the project site in 2022; none of which would be impacted by implementation of proposed project. The proposed project will not impact any special-status resources and all such resources will be protected by a proposed or an existing open space easement. All impacts will remain within disturbed habitat, urban/developed lands and orchards (Figure 3).

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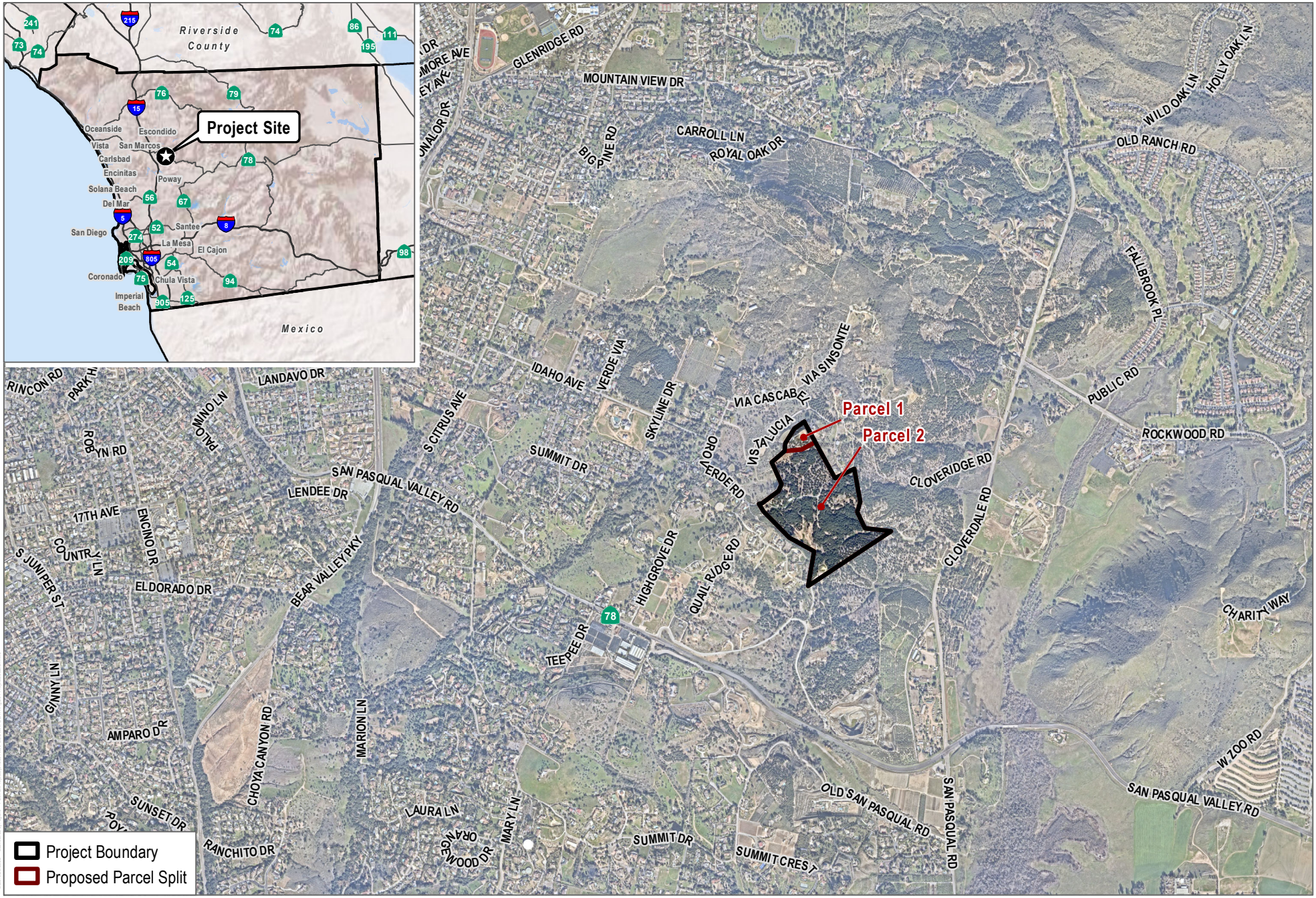

SOURCE: SANGIS 2020, 2022

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FIGURE 1

Project Location

Biological Resource Report for the Oro Verde Project

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2 INTRODUCTION

The purposes of this report are to describe the general biological character of the Oro Verde Project in terms of vegetation, jurisdictional aquatic resources, flora, fauna, and wildlife habitats, and to analyze the significance of the biological resources within the project site in terms of federal, state, and local laws and policies. In addition, an analysis of direct, indirect, and cumulative impacts of the proposed work, and a discussion of avoidance, minimization, and mitigation measures that would reduce impacts to biological resources to below a level of significance, are provided in this report.

Dudek biologists Tish Schuyler and Vipul Joshi initially surveyed the Oro Verde Project site (APN 241-140-02-00) on October 4, 2012, to assess the site for areas that may meet the County of San Diego Resource Protection Ordinance (RPO) wetlands criteria and to identify features that may fall under the jurisdiction of the various state and federal wetland regulating agencies (County of San Diego 2007). Follow-up site visits were conducted on October 30, 2012, to focus on any questionable jurisdictional areas and on October 3, 2013, to conduct vegetation mapping and record all species present within the areas of interest. A full jurisdictional delineation was not completed during the site visits and only the development site was surveyed, however the areas that are within the potential development site were carefully mapped and evaluated for whether they meet jurisdictional criteria by the various wetland regulating agencies as well as the County. Dudek biologist Olivia Koziel conducted a follow-up site visit on August 30, 2022, to assess the current conditions of the site, conduct a general wildlife survey and habitat assessment, and to update vegetation mapping and general jurisdictional resource mapping as needed. This updated letter report reflects site conditions according to Dudek's 2022 survey of the project site.

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3 PROJECT DESCRIPTION

The Oro Verde project proposes the subdivision of an approximately 51.2 acre parcel (APN No. 241-140-02-00) into two lots (4.04 acres (Parcel 1) and 47.15 acres (Parcel 2)).

Parcel 1, the smaller, 4.04-acre proposed lot in the northern portion of the existing parcel contains the on-site project impact area which was previously permitted as a part of PDS2014-TM-5583, for which shared private access and utility easement is provided via Vista Lucia. No additional grading is proposed.

Within Parcel 2, approximately 0.57 acres of the project site outside of the impact area is designated as an open space easement that has been granted to the County of San Diego (Figure 3). The open space easement states:

> Except as expressly permitted below, this easement prohibits all of the following on any portion of the land subject to said easement: grading, excavation, placement of soil, sand, rock, gravel or other material, clearing of vegetation, construction, erection or placement of any building or structure, vehicular activities, trash dumping or use for any purpose other than as open space. The sole exception to this prohibition is: Construction, expansion, use, maintenance of, and access to a water well or wells which exist upon the subject parcel on the date hereof. Such exceptions shall include, but not be limited to, all rights to water, the pumping and conveyance thereof, the service and protection of pumping facilities, including electrical service thereto, and the right to construct and maintain structural facilities which are components of the water well system.

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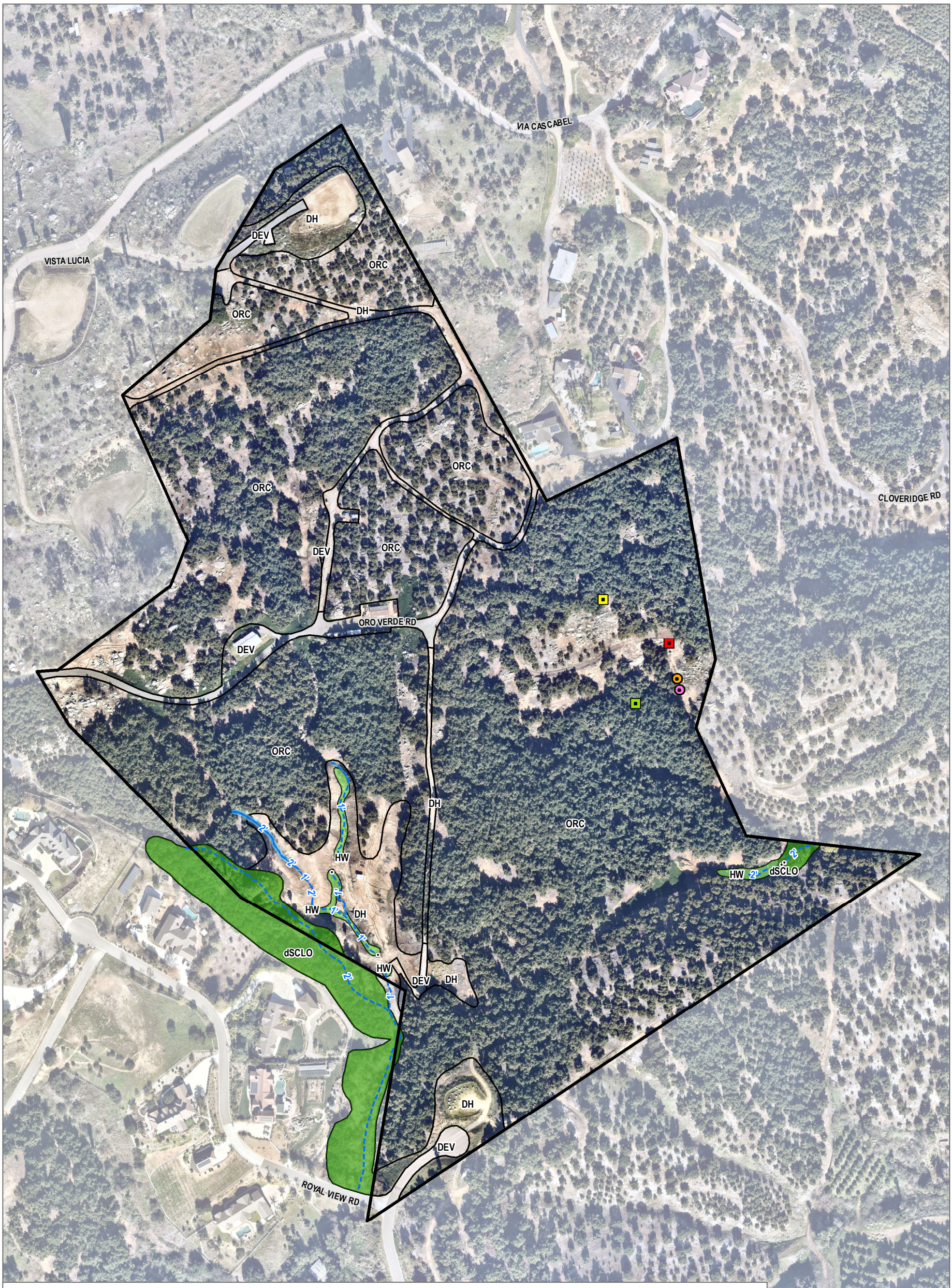

SOURCE: SANGIS 2020, 2022

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FIGURE 2

Biological Resources

Biological Resource Report for the Oro Verde Project

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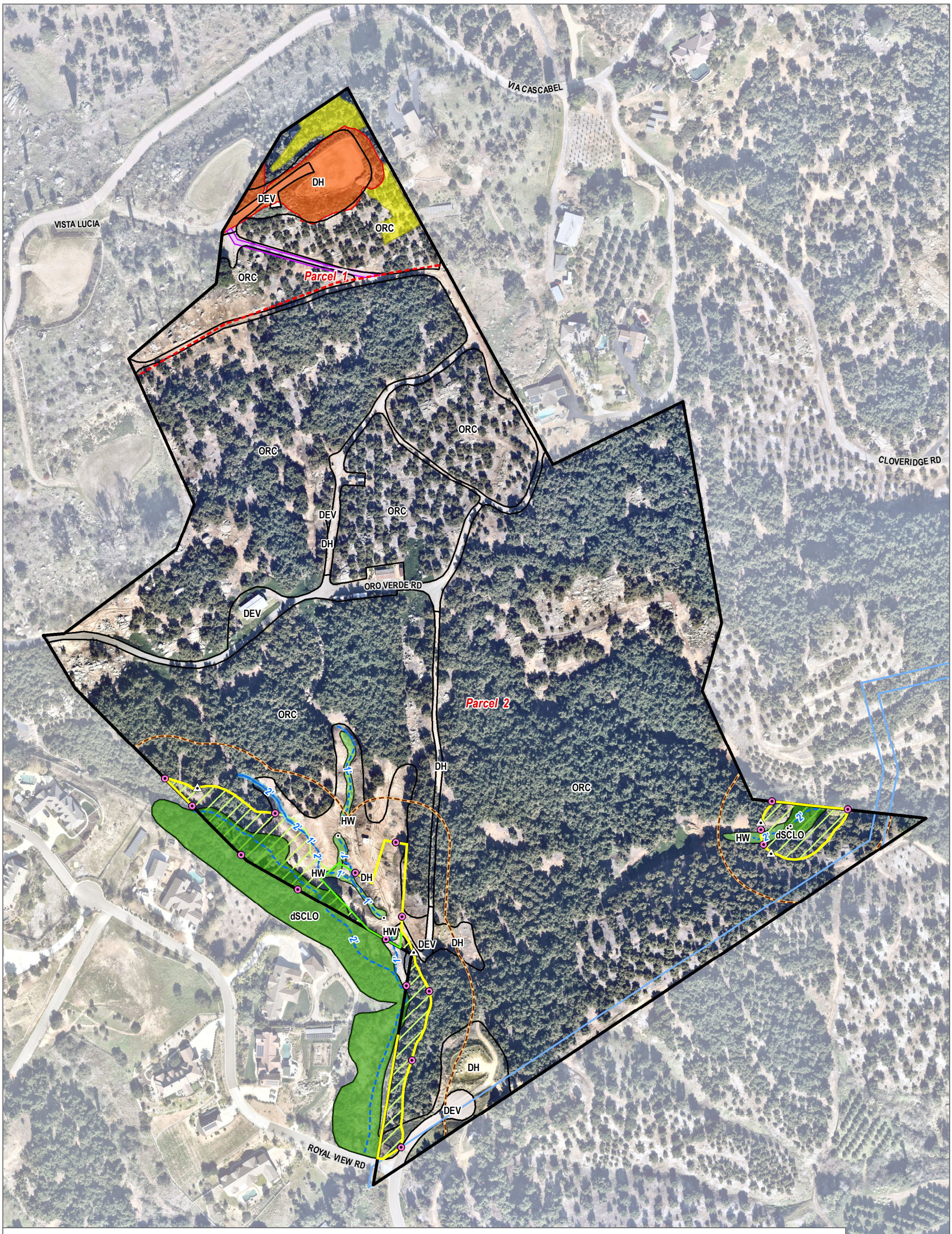

SOURCE: Hunsaker 2022; SANGIS 2020, 2023

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FIGURE 3

Impact to Biological Resources

Biological Resource Report for the Oro Verde Project

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4 PROJECT LOCATION

The proposed Oro Verde project is approximately 51.2 acres, located directly southeast of the City of Escondido, in an unincorporated portion of San Diego County, as shown in Figure 1. The project site is located at 2000 Oro Verde Road, north and east of the Diamond Ranch Road and Royal View Road intersection, approximately 3 miles northeast of Interstate 15. State Route 78 (SR-78) traverses from east to west approximately 0.5 miles to the south of the proposed project site. The project site is located within U.S. Geological Survey 7.5-minute Escondido quadrangle, Township 12 South, Range 1 West, Section 19.

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5 PROJECT SETTING

Located within San Diego County, the project site is within a portion of the unincorporated North County Metro Subregional Planning Area completely surrounded by the City of Escondido. The North County Metro Planning Area, defined by the San Diego County General Plan, is a diverse area comprised of many of these small "islands" or areas entirely surrounded by incorporated areas of the surrounding cities of Escondido, San Diego, San Marcos, Vista, and Oceanside. The project site is located within the Metro-Lakeside-Jamul segment (outside Pre-Approved Mitigation Area (PAMA)) of the County's Multiple Species Conservation Program (MSCP).

The project site is located at 2000 Oro Verde Road, north and east of the Diamond Ranch Road and Royal View Road intersection, approximately 3 miles northeast of Interstate 15. State Route 78 (SR-78) traverses from east to west approximately 0.5 miles to the south of the proposed project site.

There is an active avocado orchard covering approximately 44 acres, or 86%, of the project site. Although the orchard does not cover the entire parcel, the entire property aside from the graded pad in the northern corner of the site consists of supporting infrastructure for the commercial operation, including several structures. Unpaved roads traverse the variable and relatively steep topography on-site to provide access to the avocado production, while paved roads provide access to the surrounding streets.

A water line easement for recycled water is located in the southern portion of the project site.

5.1 Physical Characteristics

The majority of the property consists of an avocado orchard, and supporting infrastructure, and is subject to frequent irrigation. The orchard has been in operation since between 1964 and 1968. The property has been in constant agriculture operation during the time period from the 1960's through the current time with no lapse in agriculture operation. An elaborate irrigation system was installed more than ten years ago and has been in constant operation as needed in order to maintain high productivity of the avocado trees.

5.2 Regional Context

The project site is within an unincorporated portion of San Diego County and is surrounded by the City of Escondido. In San Diego County, several resource conservation-planning efforts have been completed or are currently in progress with the long-term goal of establishing a regional reserve system that will protect native habitat lands and their associated biota. The ultimate goals of these plans are the establishment of biological reserve areas in conformance with the State Natural Communities Conservation Plan (NCCP) Act, and to contribute to the preserve system already established by the approved Multiple Species Conservation Program (MSCP). The project site is located outside of the Escondido Subarea Plan but within the Escondido Sphere of Influence. The

project site is located within the Metro-Lakeside-Jamul segment (outside Pre-Approved Mitigation Area (PAMA)) of the County's Multiple Species Conservation Program (MSCP).

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6 METHODS

Dudek biologists Tish Schuyler and Vipul Joshi initially surveyed the Oro Verde Project site (APN 241-140-02-00) in October of 2012 and 2013 for the previous PDS2014-TM-5583 project. Surveys were conducted on foot to visually cover 100% of the project site and aerial photograph field map 50-scale (i.e., 50 feet = 1 inch) (Bing Maps 2012) with an overlay of the development footprint, was utilized to map the vegetation communities, land cover types, and record any jurisdictional resources. The vegetation community and land cover mapping follows the classifications described by Oberbauer et al. (2008). Areas on site that supported less than 20% native plant species cover were mapped as disturbed habitat and areas that supported at least 20% native plant species, but fewer than 50% native cover were mapped as a disturbed native vegetation community. Other areas mapped that are not described by Oberbauer et al. (2008) were mapped according to the species and composition present at the time of the survey. Following completion of the field work, Dudek Geographic Information System (GIS) Specialist Lesley Terry digitized the mapped findings using ArcGIS.

The development footprint was surveyed on foot and all potential jurisdictional resources were mapped either by hand or using a GPS unit. Five canyons within the project site were investigated for the potential to contain Waters of the U.S. (WOUS) or wetlands under the jurisdiction of Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB) and California Department of Fish and Wildlife (CDFW). These canyons were also evaluated for the potential to contain County of San Diego RPO wetlands. In addition to the field survey, Dudek reviewed both historical aerials and topographic maps to determine if the potential jurisdictional features found within the project site were the result of frequent irrigation and subsequent erosion or were natural drainages within the landscape.

Dudek biologist Olivia Koziel conducted a site visit on August 30, 2022, to conduct an updated biological reconnaissance survey and assess the current conditions of the site. Vegetation mapping and jurisdictional resource mapping was updated as-needed in the field using the ArcGIS Esri Field Maps mobile application. All wildlife that was directly observed or detected by sign was also recorded during the survey. Following completion of the field work, Dudek Geographic Information System (GIS) Specialist Andrew Greis finalized mapping updates using ArcGIS and calculated coverage acreages.

6.1 Literature Review

Sensitive biological resources present or potentially present on site were identified through a literature search using the CDFW California Natural Diversity Database (CNDDB) (CDFW 2022a) to identify potentially occurring, sensitive wildlife and plant species within the 7.5-minute Escondido quadrangle. Latin and common names of animals follow Crother (2008) for

reptiles and amphibians, American Ornithological Society (AOS) (2022) for birds, Wilson and Reeder (2005) for mammals, North American Butterfly Association (NABA) (2001) or SDNHM (2002) for butterflies, and Moyle (2002) for fish.

Latin and common names for plant species with a California Rare Plant Rank follow the California Native Plant Society On-Line Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022). For plant species without a California Rare Plant Rank, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2018) and common names follow the United States Department of Agriculture (USDA) Natural Resources Conservation Service Plants Database (USDA 2022).

Vegetation communities were mapped per the Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008), based on the County's Guidelines for Determining Significance and Report Format and Content (County of San Diego 2010a). The report is prepared under the County's Guidelines for Report Format and Content Requirements (County of San Diego 2010b).

Special-status species are those species that have been given special recognition by federal, state, or local conservation agencies and organizations due to limited, declining, or threatened population sizes. This includes those species listed by the state and federal government as threatened or endangered, those species proposed for state and/or federal listing or candidates, and those plant species designated as California Rare Plant Rank (CRPR) 1A, 1B, or 2 of the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (2022).

Sources used for determining special-status biological resources are as follows:

- **Wildlife:** CDFW Special Animals List (CDFW 2022b) and State and Federally Listed Endangered & Threatened Animals of California (CDFW 2022c), County of San Diego Group Lists 1–3 (County of San Diego 2010a)
- **Plants:** CDFW Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2022d), CNPS (2022), and County of San Diego Group Lists A–D (County of San Diego 2010a).

A review of the CNDDB and CNPS was conducted to supplement the 2012 and 2013 biological surveys and better determine what special-status wildlife and plant species may be present within the project corridor based on geographic range, suitable habitat, and known occurrences within the project vicinity. CNDDB and CNPS records/occurrence data were reviewed within the Escondido USGS 7.5-minute quadrangle.

6.2 Survey Limitations

Limitations of the survey include seasonal constraints, a diurnal bias, and the absence of focused trapping for small mammals and reptiles. Climatic conditions during the survey generally were favorable for the identification of wildlife. Because the surveys were conducted in late summer and fall, certain spring migratory bird species may not have been detected. The biological survey was conducted during the daytime to maximize visibility for the detection of plants and most animals. Because the site is already developed and disturbed for agricultural purposes, no focused surveys or small mammal trapping was warranted.

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7 RESULTS

7.1 Vegetation Communities/Land Cover Types

A total of five vegetation communities and land cover types were recorded within the project site, including urban/developed, disturbed habitat, disturbed oak riparian forest, herbaceous wetland, and orchard (Figure 2, Biological Resources). The acreages of these vegetation communities and land cover types are included in Table 1 and a description of each of these communities is provided below. A portion of the disturbed southern coast live oak riparian forest, disturbed habitat, herbaceous wetland and orchard communities mapped within the project site continue off-site. These areas were mapped to provide context for the biological resources within and surrounding the project site.

Table 1. Vegetation Communities and Land Cover Types within Project Site

Vegetation Community or Land Cover Type	MSCP Habitat Tier	County Code	Acres
Urban/Developed	IV	12000	1.36
Disturbed Habitat	IV	11300	4.91
Disturbed Southern Coast Live Oak Riparian Forest	I	61310	0.56
Herbaceous Wetland	I	52510	0.25
Orchard	IV	18100	44.11
		Total	**51.19**

7.1.1 Urban/Developed (12000)

Urban/developed land refers to areas that have been constructed upon or disturbed so severely that native vegetation is no longer supported. Developed land includes areas with permanent or semi-permanent structures, pavement or hardscape, landscaped areas, and areas with a large amount of debris or other materials (Oberbauer et al. 2008). Within the project site, developed includes structures and paved roads associated with avocado agriculture.

7.1.2 Disturbed Habitat (11300)

Disturbed habitat refers to areas that have been permanently altered by previous human activity that has eliminated all future biological value of the land for most species. The native or naturalized vegetation is no longer present, and the land lacks habitat value for sensitive wildlife, including potential raptor foraging. Disturbed habitat within the project site is dominated by doveweed (*Croton setigerus*) or stinknet (*Oncosiphon piluliferum*), but is mostly comprised of bare ground. Disturbed habitat occurs primarily within the western region of the project site and includes graded

pads in the northern and southern corners of the site, compacted dirt roads through the orchard, and other highly disturbed areas which support minimal vegetation.

A small amount of coyote brush (*Baccharis pilularis*) is present in the area surrounding the graded pad in the northern corner of the site. The coyote brush was degraded, codominant with invasive stinknet, and did not meet the minimum mapping unit acreage criteria, and thus is not mapped as a separate vegetation community. Furthermore, the shrubs were isolated from any higher quality scrub habitat that would be likely to support special-status species.

7.1.3 Disturbed Southern Coast Live Oak Riparian Forest (61310)

According to Oberbauer et al. (2008), southern coast live oak riparian forest is a closed, or nearly closed, dense evergreen sclerophyllous riparian woodland dominated by coast live oak (*Quercus agrifolia*). The herb component more richly developed than other riparian communities (Oberbauer et al. 2008).

A disturbed form of this vegetation community is found within the project site, and is dominated by coast live oak, giant reed (*Arundo donax*), eucalyptus (*Eucalyptus* sp.), pepper trees (*Schinus molle, S. terebrinthus*), canyon live oak (*Quercus chrysolepis*), castor bean (*Ricinuns commnis*), Gooding's willow (*Salix gooddingii*), edible big (*Ficus carica*), and Washington fan palm (*Washingtonia robusta*). Disturbed oak riparian forest occurs within the project site along the western boundary continuing off-site to the west. Another small polygon of disturbed oak riparian forest is located in the southeastern portion of the project site.

7.1.4 Herbaceous Wetland (52510)

Herbaceous wetlands are seasonal wetlands that support mainly annual species. This vegetation community usually does not support species typically associated with freshwater marsh, including *Typha*, *Scirpus*, and *Juncus*.

Within the project site, herbaceous wetland is dominated by barnyardgrass (*Echinochloa crus-galli*) and watercress (*Nasturtium officinale*) with associated tall flatsedge (*Cyperus eragrostis*), Malabar sprangletop (*Leptochloa fusca*) and mat amaranth (*Amaranthus blitoides*), and with very few sprouting southern cattail (*Typha domingensis*) in some areas. Patches of herbaceous wetlands are and are mapped in the southwestern and southeastern areas of the project site. This vegetation is associated with drainages. Areas surrounding channels are subject to brush management and pesticide application.

7.1.5 Orchard (18100)

The orchard land cover type is characterized by various plantings of fruit and other edible plant species that are planted for food production. Orchards are generally maintained and artificially irrigated. Within the project site, areas mapped as orchard occupy the majority of the project site and are dominated by avocado trees with an understory generally consisting of leaf litter, bare ground, or scattered non-native herbaceous plant species. This vegetation community also includes scattered ornamental plantings and patches of hottentot fig (*Carpobrotus edulis*). Some rocky outcrop areas are present within the orchard.

7.2 Floral Diversity

A total of 31 vascular plant species, consisting of 12 native species (39%), and 19 non-native species (61%), were recorded on site during initial surveys (Appendix A).

7.3 Wildlife Diversity

The project site lacks diversity in vegetation and is heavily influenced by human use and disturbance. Therefore, wildlife diversity is limited to species tolerant of or adapted to disturbance. A total of 34 wildlife species were observed during surveys of the project site (Appendix B). The majority of wildlife species observed were birds, however, the project site also supports other animals such as mammals and reptiles. During the 2022 survey, California ground squirrel (*Otospermophilus beecheyi*) and coyote (*Canis latrans*) were observed directly during the site visit. Tracks of species including northern raccoon (*Procyon lotor*), mule deer (*Odocoileus hemionus*), and likely a small mountain lion (*Puma concolor*) were also observed in the southeastern area of the site. California ground squirrels reside in rock outcrops within the orchard. Larger mammals likely use the site periodically, primarily for foraging, hunting, or obtaining water. Reptiles observed were limited to common lizards, and no amphibians were detected.

7.4 Special-Status Plants

Endangered, rare, or threatened plant species, as defined in CEQA Guideline 15380(b) (14 CCR 15000 et seq.), are referred to as "special-status plant species" in this report and include (1) endangered or threatened plant species recognized in the context of the California Endangered Species Act (CESA) and the federal Endangered Species Act (ESA), (2) plant species with a CRPR 1 through 4, (CDFW 2022d; CNPS 2022), and (3) plant species considered "sensitive" by the County of San Diego (Table 2, County of San Diego 2010a).

Considering the limited native habitat on site and the disturbed nature of that habitat, there are no special-status plant species that have a potential to occur within the project site (Appendix C).

7.5 Special-Status Wildlife

Endangered, rare, or threatened wildlife species, as defined in CEQA Guidelines, Section 15380(b) (14 CCR 15000 et seq.), are referred to as "special-status wildlife species" and, as used in this report, include (1) endangered or threatened wildlife species recognized in the context of the CESA and ESA; (2) California Species of Special Concern (SSC) and Watch List (WL) species, as designated by the CDFG (2011); (3) mammals and birds that are fully protected (FP) species, as described in Fish and Game Code, Sections 4700 and 3511; (4) Birds of Conservation Concern (BCC), as designated by the United States Fish and Wildlife Service (2021); and (5) wildlife species considered "sensitive" by the County of San Diego (Table 3, County of San Diego 2010a).

Considering the limited native habitat on site and the disturbed nature of that habitat, a limited number of special-status wildlife species have a potential to occur within the project site (Appendix D). Of 172 wildlife species analyzed for their potential to occur (Appendix D), 156 species are considered to have a low potential to occur on the project site or absent.

Seven special-status wildlife species were observed within or adjacent to the project site during the survey conducted in 2022:

- Five special-status bird species:
    - Red-shouldered hawk (*Buteo lineatus*; non-breeding) – Group 1
    - Turkey vulture (*Cathartes aura*; non-breeding) – Group 1
    - Western bluebird (*Sialia mexicana*; nesting and non-breeding) – Group 2
    - Nuttall's woodpecker (*Picoides nuttallii*) – BCC
    - Wrentit (*Chamaea fasciata*) – BCC
- Two special-status mammal species:
    - Mountain lion (*Puma concolor*) –Group 2, State Candidate for Endangered
    - Mule deer (*Odocoileus hemionus*) –Group 2

Turkey vultures were observed flying and circling above the southeastern area of the project site. Western bluebird was heard calling and seen flying over the site, and has a moderate potential to nest on site. Red-shouldered hawk and wrentit were heard calling off site, but have a low potential to nest on the site. Nuttall's woodpecker was heard calling and seen foraging among avocado trees in the orchard, with a moderate potential to nest on site. Mountain lion and mule deer tracks were observed on a dirt path within the avocado orchard in the southeastern portion of the project site.

There is a moderate potential for the following wildlife species to occur on site:

- Three special-status bird species:
  - Cooper's hawk (*Accipiter cooperii*; non-breeding) - Group 1
  - Swainson's hawk (*Buteo swainsoni*; non-breeding) –State-threatened, Group 1
  - Barn owl (*Tyto alba*) – Group 2

There is a moderate potential for barn owl to nest within the disturbed southern coast live oak riparian forest. Oak trees and large avocado trees may serve as perching sites for Cooper's hawk and Swainson's hawk.

- Eight special-status mammal species:
  - Pallid bat (*Antrozous pallidus, foraging only*) –Group 2,
  - Mexican long-tongued bat (*Corynorhinus townsendii, foraging*)
  - Townsend's big-eared bat (*Choeronycteris mexicana, foraging*)
  - Greater western mastiff bat (*Eumops perotis californicus, foraging*) –Group 2
  - Western red bat (*Lasiurus blossevillii*) –Group 2
  - Western small-footed myotis (*Myotis ciliolabrum, foraging only*) –Group 2
  - Long-eared myotis (*Myotis evotis, foraging only*) –Group 2
  - Fringed myotis (*Myotis thysanodes, foraging only*) – Group 2

There is a moderate potential for eight bat species to forage on insects attracted to orchard, and obtain water from disturbed southern coast live oak riparian forest sources: pallid bat, greater western mastiff bat, western red bat, western small-footed myotis, long-eared myotis, Townsend's big-eared bat, Mexican long-tongued bat, and fringed myotis. Only western red bat has a potential to roost within the palm trees located in and adjacent to the project site.

Focused protocol surveys for special-status wildlife are not warranted within the project site due to the limited native habitat, limited suitable habitat, and high human presence and disturbance within the project site. Additionally, proposed project impacts would be limited to the northernmost portion of the site, while special-status species are more likely to utilize the southeastern region of the site which is farther away from development, based on the survey of the site conducted in 2022.

7.6 Jurisdictional Aquatic Resources

The County of San Diego RPO identifies environmental resources present within the County and provides measures to preserve these resources (County of San Diego 2007). The RPO identifies that prior to approval of any major use permit, a resource protection study must be completed, and the approving authority shall make a finding that the use or development permitted by the application is consistent with the provisions of the RPO. The RPO establishes special controls on development to ensure that the County's fragile and irreplaceable topographies, ecosystems, and natural characteristics (which are considered by the County as vital to the general welfare of all residents) are protected and preserved. The controls established under the RPO provide regulations for development that could impact the County's wetlands, floodplains, steep slopes, sensitive biological habitat, and prehistoric and historic sites.

The RPO defines wetlands as lands that have one or more of the following attributes: 1) lands that periodically support a predominance of hydrophytes (plants whose habitat is water or very wet places); 2) lands in which the substratum is predominantly undrained hydric soil; or 3) lands where an ephemeral or perennial stream is present and whose substratum is predominately non-soil, and where such lands contribute substantially to the biological functions or values of wetlands in the drainage system (County of San Diego 2007). CDFW- and County-regulated wetlands were identified where a predominance of hydrophytic vegetation was associated with a stream channel or where an area supported at least one of the three wetlands indicators (i.e., hydrology, hydric soils, or hydrophytic vegetation).

Based upon the field investigation, the project site contains several potentially jurisdictional areas which were determined to not be jurisdictional under the County RPO. While there are several erosional features, herbaceous wetlands, and potential waters of the U.S., these areas are not considered jurisdictional under the County RPO because they do not meet the County RPO guidelines for wetlands. The RPO provides an exemption for: (aa) areas which have wetland attributes solely due to man-made structures (e.g., culverts, ditches, road crossings, or agricultural ponds), provided that they: (i) have negligible biological function or value as wetlands; (ii) are small and geographically isolated from other wetland systems; (iii) are not vernal pools; and, (iv) do not have substantial or locally important populations of wetland dependent sensitive species (County of San Diego 2007).

(i) have negligible biological function or value as wetlands;

The herbaceous wetlands found within the project site are of small size and limited biological value. No aquatic wildlife species were observed during the site visits. The disturbed southern coast live oak riparian forest mapped within the project site were characterized by mostly non-native species, including palms, giant reed, and ornamental species. The maintained/disturbed

herbaceous vegetation and small size of the wetlands and riparian forest indicate that these wetlands do not provide critical hydrologic or habitat functions within the vicinity.

(ii) are small and geographically isolated from other wetland systems;

Patches of herbaceous wetland vegetation in the project site have formed due to orchard irrigation practices, and are functionally isolated from other wetland systems. Hydrologic flows that concentrate in the southwestern region of the project site connect with hydrologic features downstream, eventually flowing into Lake Hodges.

(iii) are not vernal pools

A botanical inventory of the project site has been completed and no vernal pool indicator species, as defined by USACE (1997) were identified within the project site.

(iv) do not have substantial or locally important populations of wetland dependent sensitive species

The herbaceous wetlands on site are relatively small and are subject to human disturbance. Although focused surveys have not been conducted, it is expected that these areas do not support wetland dependent sensitive species. Some wildlife species may occasionally utilize the herbaceous wetlands as water source; however these species are not wetland dependent.

An exemption is also provided for: (bb) lands that have been degraded by past legal land disturbance activities, to the point that they meet the following criteria: (i) have negligible biological function or value as wetlands even if restored to the extent feasible; and, (ii) do not have substantial or locally important populations of wetland dependent sensitive species (County of San Diego 2007).

(i) have negligible biological function or value as wetlands even if restored to the extent feasible

According to historical aerials, the project site was graded for avocado production between 1964 and 1968. Prior to grading, the site was dominated by southern mixed chaparral and no wetland habitats were apparent within the project site (Historic Aerials 2013). In the aerials, there is no evidence of wetlands hydrology or habitat for wetland obligate species. The introduction of intensive irrigation systems for avocado production resulted in the creation of wetlands and hydrologic features within the site. Dudek determined that runoff from irrigation is not substantial enough to have developed bed and bank topography that are necessary to determine these channels to be jurisdictional under the County RPO. Therefore, there are no wetland habitats, functions or values to restore. While herbaceous wetlands within the project site are not subject to the RPO, disturbed riparian habitat on site is subject to the RPO.

(ii) do not have substantial or locally important populations of wetland dependent sensitive species

As previously stated, the herbaceous wetlands on site are small and do not support substantial or locally important populations of wetland dependent sensitive species. No special-status plant or wetland-dependent wildlife species were observed during numerous site visits.

The herbaceous wetlands and potential waters of the U.S. on site qualify under items 2 (aa) and 2 (bb) in that these features are due solely to man-made structures (culverts, ditches, road crossings, or agriculture ponds and in this case, irrigation and drainage systems as well) and the lands have been degraded by past legal land disturbance (orchard operation) to the point that they have negligible biological function or value and do not have substantial or locally important populations of wetland special status species.

In conclusion, in accordance with Article V Exemptions of the Resource Protection Ordinance, Item 10, this Ordinance shall not apply to "any on-going existing agricultural operation, such as the cultivation, growing and harvesting of crops and animals. Land left fallow for up to three years shall be considered to be an existing agricultural operation." The Oro Verde property is currently an on-going agricultural operation. Although there are four small areas on site that are composed of herbaceous wetland vegetation and that would typically be considered jurisdictional under the County RPO, because of the long history of the site as an agricultural operation to which the RPO Exemption applies, the previous condition of lack of wetlands on site, and the lack of habitat that is of value to wetland communities, wetland species, or wetland special status species, these drainage features are concluded to not be RPO wetlands.

The proposed project would not impact these resources.

8 SIGNIFICANCE OF PROJECT IMPACTS AND PROPOSED MITIGATION

This section defines the types of impacts considered in this report to analyze the potential effects of the Proposed Project on biological resources. These impacts are discussed in more detail as follows.

Direct Impacts refer to 100% permanent loss of a biological resource. For purposes of this report, it refers to the area where the limits of grading and fuel modification are proposed (i.e., Development Footprint). Direct impacts were quantified by overlaying the limits of grading on geographic information system (GIS)-located biological resources (Figure 3).

Indirect Impacts are reasonably foreseeable effects caused by project implementation on remaining or adjacent biological resources outside the direct limits of grading. Indirect impacts may affect areas within the defined project site but outside the limits of grading, including non-impacted areas and areas outside the project site, such as downstream effects. Indirect impacts include short-term effects immediately related to construction activities and long-term or chronic effects. In most cases, indirect effects are not quantified, but in some cases quantification might be included, such as using a noise contour to quantify indirect impacts to nesting birds.

Cumulative Impacts refer to the combined environmental effects of the Proposed Project and other relevant projects. In some cases, the impact from a single project may not be significant, but when combined with other projects, the cumulative impact may be significant.

Following the County Guidelines (County of San Diego 2010a–b), areas that are not being directly impacted but cannot be counted toward mitigation will be considered "impact neutral"; these areas include isolated pockets of undeveloped lands. At this time, all areas that are not impacted by the limits of grading, fuel modification, or access road are considered impact neutral.

8.1 Proposed Impacts

The proposed project will not impact native vegetation communities within the project site (Table 2). All impacts will remain within the orchard, developed or disturbed habitat within the proposed northern parcel, Parcel 1 (Figure 3). There will be no impacts to the 50-foot RPO buffer because it will be entirely located within an open space easement. There will be no impacts within 100 feet of sensitive vegetation communities or RPO wetlands. In addition, all potential waters of the U.S. are located outside of the impact area and will not be impacted. Finally, the proposed project will not result in impacts to the existing open space easement. Impacts are summarized in Table 2 below.

Table 2. Impacts to Vegetation Communities and Land Cover Types within the Project Site

Vegetation Community or Land Cover Type	Existing Acres	Impacts Acres[1] (On-Site Previously Permitted)	Impacts Acres[1] (Leach Fields)	Impacts Acres[1] (Grove Access Easement)	Mitigation Ratio	Mitigation Required (Acres)	Total Impacts
Developed	1.36	0.11	0.00	0.00	None	0.0	0.11
Disturbed Habitat	4.91	0.71	0.00	0.08	None	0.0	0.79
Disturbed Southern Coast Live Oak Riparian Forest	0.56	0.0	0.00	0.00	3:1	0.0	0.0
Herbaceous Wetland	0.25	0.0	0.00	0.00	3:1	0.0	0.0
Orchard	44.11	0.13	0.48	0.02	None	0.0	0.64
Total	**51.19**	**0.95**	**0.48**	**0.10**	**—**	**0.0**	**1.54**

Note:
[1] Impacts are defined as limits of grading for roads, pads, and leach fields within the proposed northern parcel, Parcel 1.

Project construction could result in potential direct or indirect impacts to nesting birds. Due to disturbances caused by active avocado production and the lack of habitat diversity within the orchard, it is anticipated that few birds would nest within the avocado trees on site. An inactive raptor or corvid nest was observed within a large avocado tree in a dense area of the orchard during the reconnaissance survey. Areas mapped as disturbed southern coast live oak riparian forest likely support a greater diversity of nesting birds, but such habitat is a significant distance away from the proposed impact area such that it would be unlikely to be subject to indirect impacts. Direct impacts to nesting birds could occur as a result of vegetation clearing if an active nest is present within the vegetation being cleared. Indirect impacts would be limited to heightened noise during construction.

8.2 Proposed Mitigation

Since there are no impacts to native habitat, sensitive vegetation communities, or special-status plant and wildlife species, mitigation is not required for these resources.

Open space has been proposed to be designated as shown on Figure 3. This open space area would be provided protection by an Open Space Easement. The open space would be contiguous with the previously designated 0.57 acre open space area and would encompass the RPO wetlands and the RPO buffer, where either is within the property boundary. This open space area would provide protection for these sensitive resources and would prevent direct and indirect impacts. A Limited Building Zone has also been designated that is 100 feet from the proposed open space. Thus, impacts to RPO wetlands and RPO buffer as well as the non-RPO resources are avoided. This biological open space easement will be granted to the County of San Diego (County) but will allow for (1) the continued use and maintenance of the existing waterline

easement and (2) the continued use and maintenance of the existing agricultural operations. However, if the agricultural operations stop and the land goes fallow, a new agricultural operation will not be allowed within the open space easement.

The proposed open space easement is very minimally reduced near the southernmost corner of the project site, only so that it does not overlap the existing recycled water line easement.

The open space shall be protected by fencing which should consist of three strand non-barbed wire or split rail fence, typically 4 feet in height, and corrosion-resistant signage which is a minimum of 6" x 9" in size, on posts not less than 3 feet in height from the ground surface, and must state the following:

Sensitive Environmental Resources
Area Restricted by Easement
Entry without express written permission from the County of San Diego is prohibited except for the continued use and maintenance of the agricultural operations. To report a violation or for more information about easement restrictions and exceptions contact the County of San Diego, Planning & Development Services
Reference: (*insert permit type and number*)

Because there will be no impacts to the RPO wetlands or non-RPO wetlands or waters of the U.S. no permits from the wetland regulatory agencies are required. No mitigation is required for the wetlands or waters of the U.S. since no direct or indirect impacts will occur.

Vegetation removal or other disturbance to potential nesting habitat during the breeding season from February 15 through August 31 for most species, and from January 15 through August 31 for raptors, would require pre-construction surveys and avoidance of active nests in compliance with the federal Migratory Bird Treaty Act. If nesting birds are located, construction in areas up to 300 feet from an active nest (or 500 feet for raptors), depending on site-specific physical factors as determined by the project biologist, should be halted/postponed until the nesting cycle is complete.

8.3 Cumulative Impacts

The proposed project is not anticipated to result in cumulative impacts. There will be no direct impacts to native vegetation communities, wetlands, special-status plants, or special-status wildlife species. Indirect impacts to nesting birds will be mitigated through pre-construction nesting bird surveys.

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APPENDIX A

Plant Species Observed within Project Area

APPENDIX A
Plant Species Observed within Project Area

VASCULAR SPECIES

DICOTS

***AIZOACEAE* — FIG-MARIGOLD FAMILY**

* *Carpobrotus edulis* — hottentot fig

***AMARANTHACEAE* — AMARANTH FAMILY**

Amaranthus blitoides — mat amaranth

***ANACARDIACEAE* — SUMAC OR CASHEW FAMILY**

* *Schinus molle* — Peruvian peppertree

* *Schinus terebinthifolius* — Brazilian peppertree

***ASTERACEAE* — SUNFLOWER FAMILY**

Baccharis pilularis — coyotebrush

* *Sonchus asper* — spiny sowthistle

***BRASSICACEAE* — MUSTARD FAMILY**

Nasturtium officinale — watercress

***CUCURBITACEAE* — MELON FAMILY**

* *Citrullus lanatus* — watermelon

***EUPHORBIACEAE* — SPURGE FAMILY**

Croton setiger — turkey-mullein

* *Euphorbia peplus* — petty spurge

* *Euphorbia serpens* — matted sandmat

* *Ricinus communis* — castorbean

***FAGACEAE* — OAK FAMILY**

Quercus agrifolia var. *agrifolia* — California live oak

Quercus chrysolepis — canyon live oak

***MORACEAE* — MULBERRY FAMILY**

* *Ficus carica* — edible fig

***MYRTACEAE* — MYRTLE FAMILY**

* *Eucalyptus* sp. — eucalyptus

***LAURACEAE* — LAUREL FAMILY**

Persea americana – avocado

***PORTULACACEAE* — PURSLANE FAMILY**

* *Portulaca oleracea* — little hogweed

***SALICACEAE* — WILLOW FAMILY**

Salix gooddingii — Goodding's willow

***SOLANACEAE* — NIGHTSHADE FAMILY**

* *Nicotiana glauca* — tree tobacco

***TAMARICACEAE* — TAMARISK FAMILY**

* *Tamarix* sp. — saltcedar

MONOCOTS

***ARECACEAE* — PALM FAMILY**

* *Phoenix canariensis* — Canary Island date palm

Washingtonia filifera — California fan palm

* *Washingtonia robusta* — Washington fan palm

***CYPERACEAE* — SEDGE FAMILY**

Cyperus eragrostis — tall flatsedge

***POACEAE* — GRASS FAMILY**

* *Arundo donax* — giant reed

* *Bromus rubens* — red brome

* *Echinochloa crus-galli* — barnyardgrass

Leptochloa fusca — Malabar sprangletop

* *Polypogon monspeliensis* — annual rabbitsfoot grass

***TYPHACEAE* — CATTAIL FAMILY**

Typha domingensis — southern cattail

* signifies introduced (non-native) species

APPENDIX B

Wildlife Species Observed within Project Area

APPENDIX B
Wildlife Species Observed within Project Area

BIRDS

BLACKBIRDS, ORIOLES AND ALLIES

ICTERIDAE — BLACKBIRDS

Euphagus cyanocephalus — Brewer's blackbird
Icterus cucullatus — Hooded oriole

FINCHES

FRINGILLIDAE — FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus — House finch
Spinus psaltria — Lesser goldfinch

FLYCATCHERS

TYRANNIDAE — TYRANT FLYCATCHERS

Sayornis nigricans — Black phoebe
Tyrannus vociferans — Cassin's kingbird

HAWKS

ACCIPITRIDAE — HAWKS, KITES, EAGLES, AND ALLIES

Buteo jamaicensis — Red-tailed hawk
Buteo lineatus — Red-shouldered hawk

HUMMINGBIRDS

TROCHILIDAE — HUMMINGBIRDS

Calypte anna — Anna's hummingbird
Selasphorus sasin — Allen's hummingbird

JAYS, MAGPIES AND CROWS

CORVIDAE — CROWS AND JAYS

Aphelocoma californica — California scrub-jay
Corvus brachyrhynchos — American crow

MOCKINGBIRDS AND THRASHERS

MIMIDAE — MOCKINGBIRDS AND THRASHERS

Mimus polyglottos — Northern mockingbird

NEW WORLD QUAIL

ODONTOPHORIDAE — NEW WORLD QUAIL

Callipepla californica — California quail

NEW WORLD SPARROWS

PASSERELLIDAE — NEW WORLD SPARROWS

Melozone crissalis — California towhee

Pipilo maculatus — Spotted towhee

NEW WORLD VULTURES

ODONTOPHORIDAE — NEW WORLD QUAIL

Cathartes aura — Turkey vulture

PIGEONS AND DOVES

COLUMBIDAE — PIGEONS AND DOVES

Zenaida macroura — Mourning dove

Columbina passerina — Common ground dove

SWALLOWS

HIRUNDINIDAE — SWALLOWS

Petrochelidon pyrrhonota — Cliff swallow

THRUSHES

TURDIDAE — THRUSHES

Sialia mexicana — Western bluebird

WOOD WARBLERS AND ALLIES

PARULIDAE — WOOD-WARBLERS

Leiothlypis celata — Orange-crowned warbler

WOODPECKERS

PICIDAE — WOODPECKERS AND ALLIES

Colaptes auratus — Northern flicker
Melanerpes formicivorus — Acorn woodpecker
Dryobates nuttallii — Nuttall's woodpecker

WRENS

TROGLODYTIDAE — WRENS

Catherpes mexicanus — Canyon wren

TYPICAL WARBLERS, PARROTBILLS, WRENTIT

SYLVIIDAE — SYLVIID WARBLERS

Chamaea fasciata — Wrentit

MAMMALS

CANIDS

CANIDAE — WOLVES AND FOXES

Canis latrans — Coyote

CATS

FELIDAE — CATS

Puma concolor — Puma (mountain lion)

SQUIRRELS

SCIURIDAE — SQUIRRELS

Otospermophilus beecheyi — California ground squirrel

UNGULATES

CERVIDAE — DEER

Odocoileus hemionus — Mule deer

RACCOONS

PROCYONIDAE — RACCOONS AND RELATIVES

Procyon lotor — Northern raccoon

REPTILES

LIZARDS

PHRYNOSOMATIDAE — IGUANID LIZARDS

Sceloporus orcutti — Granite spiny lizard

Uta stansburiana — Common side-blotched lizard

APPENDIX C

Sensitive Plant Species Detected or Potentially Occurring in Project Area

APPENDIX C
Sensitive Plant Species Detected or Potentially Occurring in Project Area

Scientific Name Common Name	Status (Federal/ State/ County / CRPR)1	Habitat Requirements/ Life Form/Blooming Period/ Elevation Range (feet)	Verified on Project Area (direct/ indirect evidence)	Potential to Occur On Project Area	Factual Basis for Determination
Abronia maritima Red sand-verbena	None/ None/ List D/ 4.2	Coastal dunes/ perennial herb/ Feb-Nov/ 0-328	No	Absent	The Project Area is outside of the species' known elevation range and there is no suitable vegetation present. Species would have been detected during the onsite surveys. This species is known to occur within the vicinity[2].
Abronia villosa var. *aurita* Chaparral sand-verbena	None/ None/ List A/ 1B.1	Chaparral, Coastal scrub, Desert dunes/sandy/ annual herb/ Jan-Sep/ 246-5249	No	Not expected to occur	The Project Area is located within the species' known elevation range and suitable soils are present; however, the Project Area lacks suitable vegetation.
Acanthomintha ilicifolia San Diego thornmint	FT/ SE/ List A, MSCP NE/ 1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools/clay, openings/ annual herb/ Apr-Jun/ 33-3150	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Acmispon haydonii Pygmy lotus	None/ None/ List A/ 1B.3	Pinyon and juniper woodland, Sonoran desert scrub/rocky/ perennial herb/ Jan-Jun/ 1706-3937	No	Not expected to occur	The Project Area is outside of the species' known elevation range and there is no suitable vegetation present.
Acmispon prostratus Nuttall's acmispon	None/ None/ List A/ 1B.1	Coastal dunes, coastal scrub; sandy/ annual herb/ Mar-Jun/ 0-32	No	Not expected to occur	The Project Area is outside of the species' known elevation range and there is no suitable vegetation present. This species is known to occur within the vicinity[2].
Adolphia californica California adolphia	None/ None/ List B/ 2B.1	Chaparral, Coastal scrub, Valley and foothill grassland/clay/ perennial deciduous shrub/ Dec-May/ 148-2428	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Agave shawii var. shawii Shaw's agave	None/ None/ List B, MSCP NE/ 2B.1	Coastal bluff scrub, Coastal scrub/ perennial leaf succulent/ Sep-May/ 33-394	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. Conspicuous succulent would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Ambrosia chenopodiifolia San Diego bur-sage	None/ None/ List B/ 2B.1	Coastal scrub/ perennial shrub/ Apr-Jun/ 180-509	No	Not expected to occur	The Project Area is located slightly above the species' known elevation range and the Project Area lacks suitable vegetation.
Ambrosia pumila San Diego ambrosia	FE/ None/ List A, MSCP NE/ 1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools/sandy loam or clay, often in disturbed areas, sometimes alkaline/ perennial rhizomatous herb/ Apr-Oct/ 66-1362	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Androsace elongata ssp. *acuta* California androsace	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal scrub, Meadows and seeps, Pinyon and juniper woodland, Valley and foothill grassland/ annual herb/ Mar-Jun/ 492-3937	No	Low	The Project Area is located within the species' known elevation range and there are herbaceous wetlands (HW) present; however, those communities are limited in size and surrounded by disturbance; therefore, this community provides negligible biological function.
Aphanisma blitoides Aphanisma	None/ None/ List A/ 1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub/sandy/ annual herb/ Mar-Jun/ 3-1001	No	Not expected to occur	The Project Area is located within the species' known elevation range and suitable soils are present; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Arctostaphylos glandulosa ssp. *crassifolia* Del Mar manzanita	FE/ None/ List A/ 1B.1	Chaparral(maritime, sandy)/ perennial evergreen shrub/ Dec-Jun/ 0-1198	No	Absent	The Project Area is located within the species' known elevation range and suitable soils are present; however, the Project Area lacks suitable vegetation and this conspicuous shrub would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Arctostaphylos otayensis Otay manzanita	None/ None/ List A/ 1B.2	Chaparral, Cismontane woodland/metavolcanic/ perennial evergreen shrub/ Jan-Apr/ 902-5577	No	Absent	The Project Area is located outside of the species' known elevation range and lacks suitable vegetation and soils. Conspicuous shrub would have been observed during onsite surveys.
Arctostaphylos rainbowensis Rainbow manzanita	None/ None/ List A/ 1B.1	Chaparral/ perennial evergreen shrub/ Dec-Mar/ 673-2198	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Conspicuous shrub would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Artemisia palmeri San Diego sagewort	None/ None/ List D/ 4.2	Chaparral, Coastal scrub, Riparian forest, Riparian scrub, Riparian woodland/sandy, mesic/ perennial deciduous shrub/ (Feb),May-Sep/ 49-3002	No	Low	The Project Area is located within the species' known elevation range and there is disturbed coast live oak riparian forest (dORF) present; however, this community it is limited and disturbed; therefore, this community provides negligible biological function. This species is known to occur within the vicinity[2].

Scientific Name Common Name	Status (Federal/ State/ County / CRPR)1	Habitat Requirements/ Life Form/Blooming Period/ Elevation Range (feet)	Verified on Project Area (direct/ indirect evidence)	Potential to Occur On Project Area	Factual Basis for Determination
Asplenium vespertinum Western spleenwort	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal scrub/rocky/ perennial rhizomatous herb/ Feb-Jun/ 591-3281	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Astragalus crotalariae Salton milkvetch	None/ None/ List D/ 4.3	Sonoran desert scrub(sandy or gravelly)/ perennial herb/ Jan-Apr/ -197-820	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present.
Astragalus deanei Dean's milk-vetch	None/ None/ List A/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian forest/ perennial herb/ Feb-May/ 246-2280	No	Low	The Project Area is located within the species' known elevation range and there is dORF present. This community it is limited and disturbed; therefore, this community provides negligible biological function.
Astragalus douglasii var. *perstrictus* Jacumba milk-vetch	None/ None/ List A/ 1B.2	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Riparian scrub, Valley and foothill grassland/rocky/ perennial herb/ Apr-Jun/ 2953-4495	No	Not expected to occur	The Project Area is located outside the species' known elevation range.
Astragalus insularis var. *harwoodii* Harwood's milkvetch	None/ None/ List B/ 2B.2	Desert dunes, Mojavean desert scrub/sandy or gravelly/ annual herb/ Jan-May/ 0-2329	No	Not expected to occur	The Project Area is located within the species' known elevation range and suitable soils are present; however, the Project Area lacks suitable vegetation.
Astragalus lentiginosus var. *borreganus* Borrego milkvetch	None/ None/ List D/ 4.3	Mojavean desert scrub, Sonoran desert scrub/sandy/ annual herb/ Feb-May/ 98-1050	No	Not expected to occur	The Project Area is located within the species' known elevation range and suitable soils are present; however, the Project Area lacks suitable vegetation.
Astragalus magdalenae var. *peirsonii* Peirson's milk-vetch	FT/ SE/ List A/ 1B.2	Desert dunes/ perennial herb/ Dec-Apr/ 197-738	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Astragalus oocarpus San Diego milk-vetch	None/ None/ List A/ 1B.2	Chaparral(openings), Cismontane woodland/ perennial herb/ May-Aug/ 1001-5000	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Astragalus pachypus var. jaegeri Jaeger's milk-vetch	None/ None/ List A/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/sandy or rocky/ perennial shrub/ Dec-Jun/ 1198-3002	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Astragalus tener var. *titi* Coastal dunes milk-vetch	FE/ SE/ List A/ 1B.1	Coastal bluff scrub(sandy), Coastal dunes, Coastal prairie(mesic)/often vernally mesic areas/ annual herb/ Mar-May/ 3-164	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Atriplex coulteri Coulter's saltbush	None/ None/ List A/ 1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland/alkaline or clay/ perennial herb/ Mar-Oct/ 10-1509	No	Absent	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Atriplex pacifica South Coast saltscale	None/ None/ List A/ 1B.2	Coastal bluff scrub, coastal dunes, coastal scrub, playas/ annual herb/ Mar-Oct/ 0 – 459	No	Absent	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Atriplex parishii Parish's brittlescale	None/ None/ List A/ 1B.1	Chenopod scrub, Playas, Vernal pools/alkaline/ annual herb/ Jun-Oct/ 82-6234	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Atriplex serenana var. *davidsonii* Davidson's saltscale	None/ None/ List A/ 1B.2	Coastal bluff scrub, Coastal scrub/alkaline/ annual herb/ Apr-Oct/ 33-656	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. Species would have been observed during onsite surveys.
Ayenia compacta California ayenia	None/ None/ List B/ 2B.3	Mojavean desert scrub, Sonoran desert scrub/rocky/ perennial herb/ Mar-Apr/ 492-3593	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Azolla microphylla Mexican mosquito fern	None/ None/ List D/ 4.2	Marshes and swamps; ponds, slow water/ annual/perennial herb/ August/ 98-328	No	Not expected to occur.	HW is present; however, onsite this community is limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Baccharis vanessae Encinitas baccharis	FT/ SE/ List A, MSCP NE/ 1B.1	Chaparral(maritime), Cismontane woodland/sandstone/ perennial deciduous shrub/ Aug-Nov/ 197-2362	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been observed during onsite surveys. This species is known to occur within the vicinity[2].

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Berberis fremontii Fremont barberry	None/ None/ List C/ 2B.3	Chaparral , Joshua tree "woodland", pinyon and juniper woodland; rocky/ evergreen shrub/ Apr-Jun/ 2755-6069	No	Absent	The Project Area is located outside of the species' known elevation range and there is no suitable vegetation present. Conspicuous shrub would have been detected during onsite surveys.
Berberis nevinii Nevin's barberry	FE/ SE/ List A, MSCP NE/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub/sandy or gravelly/ perennial evergreen shrub/ Mar-Jun/ 899-2707	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been observed during onsite surveys. This species is known to occur within the vicinity[2].
Bergerocactus emoryi Golden-spined cereus	None/ None/ List B/ 2B.2	Closed-cone coniferous forest, Chaparral, Coastal scrub/sandy/ perennial stem succulent/ May-Jun/ 10-1296	No	Absent	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present. Conspicuous stem succulent would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Bloomeria clevelandii San Diego goldenstar	None/ None/ List A/ 1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools/clay/ perennial bulbiferous herb/ Apr-May/ 164-1526	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation or soils present. This species is known to occur within the vicinity[2].
Boechera johnstonii Johnston's rockcress	None/ None/ List A/ 1B.2	Chaparral, Lower montane coniferous forest/often on eroded clay/ perennial herb/ Feb-Jun/ 4429-7054	No	Not expected to occur	The Project Area is located outside the species' known elevation range and there is no suitable vegetation or soils present.
Brodiaea filifolia Thread-leaved brodiaea	FT/ SE/ List A, MSCP NE/ 1B.1	Chaparral(openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools/often clay/ perennial bulbiferous herb/ Mar-Jun/ 82-3675	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation or soils present. This species is known to occur within the vicinity[2].
Brodiaea orcuttii Orcutt's brodiaea	None/ None/ List A/ 1B.1	Closed-cone coniferous forest, Chaparral, Cismontane woodland, Meadows and seeps, Valley and foothill grassland, Vernal pools/mesic, clay, sometimes serpentinite/ perennial bulbiferous herb/ May-Jul/ 98-5551	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation or soils present. This species is known to occur within the vicinity[2].
Bursera microphylla Little-leaf elephant tree	None/ None/ List B/ 2B.3	Sonoran desert scrub(rocky)/ perennial deciduous tree/ Jun-Jul/ 656-2297	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present.
Calandrinia breweri Brewer's calindrinia	None/ None/ List D/ 4.2	Chaparral, Coastal scrub/sandy or loamy, disturbed Project Areas and burns/ annual herb/ Mar-Jun/ 33-4003	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present. This species is known to occur within the vicinity[2].
California macrophylla Round-leaved filaree	None/ None/ List B/ CBR	Cismontane woodland, valley and foothill grassland; clay / annual herb/ Mar–May/ 49-3937	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and clay soils. This species is known to occur within the vicinity[2].
Calliandra eriophylla Pink fairy Duster	None/ None/ List B/ 2B.3	Sonoran desert scrub(sandy or rocky)/ perennial deciduous shrub/ Jan-Mar/ 394-4921	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present.
Calochortus catalinae Catalina mariposa lily	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/ perennial bulbiferous herb/ (Feb),Mar-Jun/ 49-2297	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present.
Calochortus dunnii Dunn's mariposa lily	None/ SR/ List A, MSCP NE/ 1B.2	Closed-cone coniferous forest, Chaparral, Valley and foothill grassland/gabbroic or metavolcanic, rocky/ perennial bulbiferous herb/ (Feb),Apr-Jun/ 607-6004	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation or soils present. This species is known to occur within the vicinity[2].
Camissoniopsis lewisii Lewis's evening-primrose	None/ None/ List C/ 3	Coastal bluff scrub, cismontane woodland, coastal dunes, coastal scrub, valley and foothill grassland; sandy or clay/ annual herb/ Mar-May/ 0 - 984	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation present. This species is known to occur within the vicinity[2].

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Carlowrightia arizonica Arizona carlowrightia	None/ None/ List B/ 2B.2	Sonoran desert scrub(sandy, granitic alluvium)/ perennial deciduous shrub/ Mar-May/ 935-1411	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation.
Caulanthus simulans Payson's jewel-flower	None/ None/ List D/ 4.2	Chaparral, Coastal scrub/sandy, granitic/ annual herb/ (Feb),Mar-May(Jun),/ 295-7218	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation.
Ceanothus cyaneus Lakeside ceanothus	None/ None/ List A, MSCP NE/ 1B.2	Closed-cone coniferous forest, Chaparral/ perennial evergreen shrub/ Apr-Jun/ 771-2477	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation. Conspicuous evergreen would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Ceanothus verrucosus Wart-stemmed ceanothus	None/ None/ List B/ 2B.2	Chaparral/ perennial evergreen shrub/ Dec-May/ 3-1247	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, there is no suitable vegetation. Conspicuous evergreen would have been detected during onsite Area surveys. This species is known to occur within the vicinity[2].
Centromadia parryi ssp. *australis* Southern tarplant	None/ None/ List A/ 1B.1	Marshes and swamps(margins), Valley and foothill grassland(vernally mesic), Vernal pools/ annual herb/ May-Nov/ 0-1394	No	Absent	The Project Area is located within the species' known elevation range and HW are present; however, those communities are limited in size and surrounded by disturbance; therefore, providing negligible biological function. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Centromadia pungens ssp. *laevis* Smooth tarplant	None/ None/ List A/ 1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland/alkaline/ annual herb/ Apr-Sep/ 0-2100	No	Absent	The Project Area is located within the species' known elevation range and HW are present; however, those communities are limited in size and surrounded by disturbance; therefore, providing negligible biological function. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Chaenactis carphoclinia var. *peirsonii* Peirson's pincushion	None/ None/ List A/ 1B.3	Sonoran desert scrub; sandy/ annual herb/ Mar-Apr/ 10-1640	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Chaenactis glabriuscula var. *orcuttiana* Orcutt's pincushion	None/ None/ List A/ 1B.1	Coastal bluff scrub(sandy), Coastal dunes/ annual herb/ Jan-Aug/ 0-328	No	Not expected to occur	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Chaenactis parishii Parish's chaenactis	None/ None/ List A/ 1B.3	Chaparral(rocky)/ perennial herb/ May-Jul/ 4265-8202	No	Not expected to occur	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation.
Chamaebatia australis Southern mountain misery	None/ None/ List D/ 4.2.	Chaparral; gabbroic or metavolcanic/ evergreen shrub/ Nov-May/ 984-3346	No	Absent	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation and soils. Conspicuous shrub would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Chamaesyce arizonica Arizona spurge	None/ None/ List B/ 2.3	Sonoran desert scrub(sandy)/ perennial herb/ Mar-Apr/ 164-984	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Chamaesyce platysperma Flat-seeded spurge	None/ None/ List A/ 1B.2	Desert dunes, Sonoran desert scrub(sandy)/ annual herb/ Feb-Sep/ 213-328	No	Not expected to occur	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation.
Chamaesyce revoluta Thread-stemmed spurge	None/ None/ List D/ 4.3	Mojavean desert scrub(rocky)/ annual herb/ Aug-Sep/ 3593-10171	No	Not expected to occur	The Project Area is located outside the species' known elevation range and the Project Area lacks suitable vegetation.
Chloropyron maritimum ssp. *maritimum* Salt marsh bird's-beak	FE/ SE/ List A/ 1B.2	Coastal dunes, Marshes and swamps(coastal salt)/ annual herb hemiparasitic/ May-Oct/ 0-98	No	Absent	HW are present; however, those communities are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range and the species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Chorizanthe leptotheca Peninsular spineflower	None/ None/ List D/ 4.2	Chaparral, Coastal scrub, Lower montane coniferous forest/alluvial fan, granitic/ annual herb/ May-Aug/ 984-6234	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Chorizanthe orcuttiana Orcutt's spineflower	FE/ SE/ List A/ 1B.1	Closed-cone coniferous forest, chaparral (maritime), coastal scrub; sandy openings/ annual herb/ Mar-May/ 10-984	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].

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Chorizanthe parryi var. *fernandina* San Fernando Valley spineflower	FC/ SE/ List A/ 1B.1	Coastal scrub; sandy; valley and foothill grassland/ annual herb/ Apr-Jun/ 492-4002	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Chorizanthe polygonoides var. *longispina* Long-spined spineflower	None/ None/ List A/ 1B.2	Chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools; often clay/ annual herb/ Apl-Jul/ 98-5019	No	Low	The Project Area is located within the species' known elevation range and there are HW present; however, those communities are limited in size and surrounded by disturbance; therefore, providing negligible biological function. This species is known to occur within the vicinity[2].
Cistanthe maritima Seaside cistanthe	None/ None/ List D/ 4.2	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland/sandy/ annual herb/ (Feb),Mar-Jun(Aug),/ 16-984	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Clarkia delicata Delicate clarkia	None/ None/ List A/ 1B.2	Chaparral, cismontane woodland; often gabbroic/ annual herb/ Apr-Jun/ 770-3280	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and gabbroic soils. This species is known to occur within the vicinity[2].
Clinopodium chandleri San Miguel savory	None/ None/ List A/ 1B.2	Chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland; rocky, gabbroic or metavolcanic / shrub/ Mar-Jul/ 393-3526	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Colubrina californica Las Animas colubrina	None/ None/ List B/ 2B.3	Mojavean desert scrub, Sonoran desert scrub/ perennial deciduous shrub/ Apr-Jun/ 33-3281	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Comarostaphylis diversifolia ssp. *diversifolia* Summer holly	None/ None/ List A/ 1B.2	Chaparral, cismontane woodland/ evergreen shrub/ Apr-Jun/ 98-2591	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Conspicuous shrub would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Convolvulus simulans Small-flowered morning-glory	None/ None/ List D/ 4.2	Chaparral (openings), coastal scrub, valley and foothill grassland; clay, serpentinite seeps/ annual herb/ Mar-Jul/ 98-2296	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and clay soils. This species is known to occur within the vicinity[2].
Corethrogyne filaginifolia var. incana San Diego sand aster	None/ None/ List A/ 1B.1	Chaparral, coastal bluff scrub, coastal scrub/ perennial herb/ Jun-Sep/ 10-377	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Corethrogyne filaginifolia var. *linifolia* Del Mar Mesa sand aster	None/ None/ List A/ 1B.1	Maritime chaparral (openings), coastal bluff scrub, coastal scrub; sandy/ perennial herb/ May-Sep/ 49-492	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Cryptantha costata Ribbed cryptantha	None/ None/ List D/ 4.3	Desert dunes, Mojavean desert scrub, Sonoran desert scrub/sandy/ annual herb/ Feb-May/ -197-1640	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Cryptantha ganderi Gander's cryptantha	None/ None/ List A/ 1B.1	Desert dunes, Sonoran desert scrub(sandy)/ annual herb/ Feb-May/ 525-1312	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Cryptantha holoptera Winged cryptantha	None/ None/ List D/ 4.3	Mojavean desert scrub, Sonoran desert scrub/ annual herb/ Mar-Apr/ 328-5545	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Cylindropuntia californica var. *californica* Snake cholla	None/ None/ List A/ 1B.1	Chaparral, coastal scrub/ stem succulent/ Apr-May/ 98-492	No	Absent	The Project Area is outside of the species' known elevation range and lacks suitable vegetation. Conspicuous stem succulent would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Cylindropuntia wolfii Wolf's cholla	None/ None/ List D/ 4.3	Sonoran desert scrub/ perennial stem succulent/ Mar-May/ 328-3937	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Deinandra conjugens Otay tarplant	FT/ SE/ List A, MSCP NE/ 1B.1	Coastal scrub, valley and foothill grassland; clay/ annual herb/ May-Jun/ 82-984	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and clay soils.
Deinandra floribunda Tecate tarplant	None/ None/ List A/ 1B.2	Chaparral, coastal scrub/ annual herb/ Augt-Oct/ 229-4002	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable. Species would have been detected during onsite surveys.

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Deinandra mohavensis Mojave tarplant	None/ SE/ List A/ 1B.3	Chaparral, Coastal scrub, Riparian scrub/mesic/ annual herb/ (May),Jun-Oct(Jan),/ 2100-5249	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Deinandra paniculata Paniculate tarplant	None/ None/ List D/ 4.2	Coastal scrub, Valley and foothill grassland, Vernal pools/usually vernally mesic, sometimes sandy/ annual herb/ Apr-Nov/ 82-3084	No	Absent	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Delphinium hesperium ssp. *cuyamacae* Cuyamaca larkspur	None/ SR/ List A/ 1B.2	Lower montane coniferous forest, Meadows and seeps, Vernal pools/mesic/ perennial herb/ May-Jul/ 4003-5351	No	Not expected to occur	HW are present; however, those communities are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Delphinium parishii ssp. *subglobosum* Colorado Desert larkspur	None/ None/ List D/ 4.3	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Sonoran desert scrub/ perennial herb/ Mar-Jun/ 1969-5906	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Dichondra occidentalis Western dichondra	None/ None/ List D/ 4.2	Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland/ rhizomatous herb/ Mar-Jul/ 164-1640	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Dicranostegia orcuttiana Orcutt's bird's-beak	None/ None/ List B/ 2B.1	Coastal scrub/ annual herb hemiparasitic/ (Mar),Apr-Jul(Sep),/ 33-1148	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Dieteria asteroides var. *lagunensis* Mount Laguna Aster	None/ SR/ List B/ 2B.1	Cismontane woodland, Lower montane coniferous forest/ perennial herb/ Jul-Aug/ 2625-7874	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Ditaxis serrata var. californica California ditaxis	None/ None/ List C/ 3.2	Sonoran desert scrub/ perennial herb/ Mar-Dec/ 98-3281	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Downingia concolor var. *brevior* Cuyamaca Lake downingia	None/ SE/ List A/ 1B.1	Meadows and seeps (vernally mesic), vernal pools/ annual herb/ May-Jul/ 4527-4921	No	Not expected to occur	HW is present; however, those communities are limited in size and surrounded by disturbance therefore providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Dudleya attenuata ssp. *attenuata* Orcutt's dudleya	None/ None/ List B/ 2B.1	Coastal bluff scrub, chaparral, coastal scrub; rocky or gravelly/ perennial herb/ May-Jul/ 10-164	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Dudleya blochmaniae ssp. *blochmaniae* Blochman's dudleya	None/ None/ List A, MSCP NE/ 1B.1	Chaparral, coastal bluff scrub, coastal scrub, valley and foothill grassland, rocky; often clay or serpentinite/ perennial herb/ Apr-Jun/ 16-1476	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils.
Dudleya brevifolia Short-leaved dudleya	None/ SE / List A / 1B.1	Chaparral(maritime, openings), Coastal scrub/Torrey sandstone/ perennial herb/ Apr-May/ 98-820	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Dudleya multicaulis Many-stemmed dudleya	None/ None/ List A/ 1B.2	Chaparral, coastal scrub, valley and foothill grassland; often clays/ perennial herb/ Apr-Jul/ 49-2591	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils.
Dudleya saxosa ssp. *aloides* Banner dudleya	None/ None/ List C/ 3.2	Chaparral, lower montane coniferous forest, Sonoran desert scrub; rocky/ perennial herb/ Apr-Jul/ 2427-3937	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Dudleya variegata Variegated dudleya	None/ None/ List A, MSCP NE/ 1B.2	Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland, vernal pools/ perennial herb/ Apr-Jun/ 10-1902	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and vernal pools. This species is known to occur within the vicinity[2].
Dudleya viscida Sticky dudleya	None/ None/ List A/ 1B.2	Coastal bluff scrub, chaparral, cismontane woodland, coastal scrub; rocky/ perennial herb/ May-Jun/ 32-1804	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].

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Ericameria cuneata var. macrocephala Laguna Mountains goldenbush	None/ None/ List A/ 1B.3	Chaparral(granitic)/ perennial shrub/ Sep-Dec/ 3921-6070	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils. Species would have been detected during onsite surveys.
Ericameria palmeri var. *palmeri* Palmer's goldenbush	None/ None/ List B, MSCP NE/ 1B.1	Chaparral, coastal scrub; mesic/ evergreen shrub/ Sep-Nov/ 98-1968	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Eriogonum evanidum Vanishing wild buckwheat	None/ None/ List A/ 1B.1	Chaparral, cismontane woodland, lower montane coniferous forest, pinyon and juniper woodland; sandy/ annual herb/ Jul-Oct/ 3608-7299	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Eryngium aristulatum var. *parishii* San Diego button-celery	FE/ SE/ List A/ 1B.1	Coastal scrub, valley and foothill grassland, vernal pools, mesic areas/ annual-perennial herb/ Apr-Jun/ 65-2034	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and vernal pools. This species is known to occur within the vicinity[2].
Eryngium pendletonense Pendleton button-celery	None/ None/ List A/ 1B.1	Coastal bluff scrub, valley and foothill grassland, vernal pools; clay, vernally mesic/ perennial herb/ Apr– Jun (Jul)/ 49-360	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and vernal pools.
Eucnide rupestris Rock nettle	None/ None/ List B/ 2B.2	Sonoran desert scrub/ annual herb/ Dec-Apr/ 1640-1969	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Euphorbia misera Cliff spurge	None/ None/ List B/ 2B.2	Coastal bluff scrub, coastal scrub; rocky/ shrub/ Dec-Aug (Oct)/ 32-1640	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Ferocactus viridescens San Diego barrel cactus	None/ None/ List B/ 2B.1	Chaparral, coastal scrub, valley and foothill grassland, vernal pools/ stem succulent/ May-Jun/ 10-1476	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and vernal pools. Conspicuous succulent would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Frankenia palmeri Palmer's frankenia	None/ None/ List B/ 2B.1	Coastal dunes, coastal saltwater marsh and swamps (coastal salt), playas/ perennial herb/ May-Jul/ 0 - 32	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation coastal salt marshes and swamps. This species is known to occur within the vicinity[2].
Fremontodendron mexicanum Mexican flannelbush	FE/ SR/ List A/ 1B.1	Closed-cone coniferous forest, chaparral, cismontane woodland; gabbroic, metavolcanic, or serpentintite/ evergreen shrub/ Mar-Jun/ 32-2349	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils.
Fritillaria biflora Chocolate lily	None/ None/ List D/ None	Valley grassland, foothill woodland/ perennial herb/ 0 -3937	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Funastrum utahense Utah vine milkweed	None/ None/ List D/ 4.2	Mojavean desert scrub, Sonoran desert scrub/sandy or gravelly/ perennial herb/ (Mar),Apr-Jun(Sep),(Oct),/ 328-4708	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Galium angustifolium ssp. *borregoense* Borrego beadstraw	None/ SR/ List A/ 1B.3	Sonoran desert scrub(rocky)/ perennial herb/ Mar/ 1148-4101	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Galium angustifolium ssp. *jacinticum* San Jacinto Mountains bedstraw	None/ None/ List A/ 1B.3	Lower montane coniferous forest/ perennial herb/ Jun-Aug/ 4429-6890	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Galium johnstonii Johnston's bedstraw	None/ None/ List D/ 4.3	Chaparral, lower montane coniferous forest, pinyon-juniper woodland, riparian woodland / perennial herb/ Jun-Jul/ 4002-7545	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Geraea viscida Sticky geraea	None/ None/ List B/ 2B.2	Chaparral (often disturbed)/ perennial herb/ May-Jun/ 1476-5577	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.

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Githopsis diffusa ssp. *filicaulis* Mission Canyon bluecup	None/ None/ List C/ 3.1	Chaparral (mesic, disturbed areas)/ annual herb/ Apr-Jun/ 1476-2296	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Grindelia hallii San Diego gumplant	None/ None/ List A/ 1B.2	Chaparral, lower montane coniferous forest, meadows and seeps, valley and foothill grassland/ perennial herb/ Jul-Oct/ 606-5725	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite Area surveys. This species is known to occur within the vicinity[2].
Harpagonella palmeri Palmer's grapplinghook	None/ None/ List D/ 4.2	Chaparral, Coastal scrub, Valley and foothill grassland/clay/ annual herb/ Mar-May/ 66-3133	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Hazardia orcuttii Orcutt's hazardia	FC/ ST/ List A/ 1B.1	Chaparral (maritime), coastal scrub; often clay/ evergreen shrub/ Aug-Oct/ 262-278	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and clay soils. This species is known to occur within the vicinity[2].
Herissantia crispa Curly herissantia	None/ None/ List B/ 2B.3	Sonoran desert scrub/ annual/perennial herb/ (Apr),Aug-Sep/ 2297-2379	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Hesperocyparis forbesii Tecate cypress	None/ None/ List A/ 1B.1	Closed-cone coniferous forest, chaparral; clay, gabbroic or metavolcanic/ evergreen tree/ NA/ 262-4921	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. Species would have been detected during onsite surveys.
Hesperocyparis stephensonii Cuyamaca cypress	None/ None/ List A/ 1B.1	Closed-cone coniferous forest, chaparral, cismontane woodland, riparian forest; gabbroic/ evergreen tree/ NA/ 3395-5593	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils. Species would have been detected during onsite surveys.
Heterotheca sessiliflora ssp. *sanjacintensis* San Jacinto golden-aster	None/ None/ List D/ None	Woodlands/ 1200-4560/ unresolved in Jepson	No	Not expected to occur	The Project Area is located outside of the species' known elevation range.
Heuchera brevistaminea Mt. Laguna alumroot	None/ None/ List A/ 1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Riparian forest/rocky/ perennial rhizomatous herb/ Apr-Jul(Sep),/ 4495-6562	No	Not expected to occur	There is dORF present; however, this community is limited in size and disturbed onsite Area providing negligible biological function. The Project Area is located outside the species' known elevation range.
Heuchera rubescens var. *versicolor* San Diego County alumroot	None/ None/ List B/ 3.3	Chaparral, Lower montane coniferous forest/rocky/ perennial rhizomatous herb/ May-Jun/ 4921-13123	No	Not expected to occur	The Project Area is located outside the species' known elevation range and lacks suitable vegetation.
Holocarpha virgata ssp. *elongata* Graceful tarplant	None/ None/ List D/ 4.2	Coastal scrub, cismontane woodland, chaparral, valley and foothill grassland/ annual herb/ May-Nov/ 196-3608	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite survey. This species is known to occur within the vicinity[2].
Hordeum intercedens Vernal barley	None/ None/ List C/ 3.2	Coastal dunes, coastal scrub, valley and foothill grassland (saline flats and depressions), vernal pools/ annual herb/ Mar-Jun/ 16-3280	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and saline flats/depressions.
Horkelia cuneata var. *puberula* Mesa horkelia	None/ None/ List A/ 1B.1	Maritime chaparral, cismontane woodland, coastal scrub; sandy or gravelly/ perennial herb/ February – Jul / 229-2657	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Horkelia truncata Ramona horkelia	None/ None/ List A/ 1B.3	Chaparral, Cismontane woodland/clay, gabbroic/ perennial herb/ May-Jun/ 1312-4265	No	Not expected to occur	The Project Area is located outside the species' known elevation range and lacks suitable vegetation. This species is known to occur within the vicinity[2].
Horsfordia newberryi Newberry's velvet-mallow	None/ None/ List D/ 4.3	Sonoran desert scrub(rocky)/ perennial shrub/ Feb-Dec/ 10-2625	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Hosackia crassifolius var. *otayensis* Otay Mountains lotus	None/ None/ List A/ 1B.1	Chaparral (metavolcanic, often in disturbed areas)/ perennial herb/ May-Aug/ 3001-3330	No	Not expected to occur	The Project Area is located outside the species' known elevation range and lacks suitable vegetation.

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Hulsea californica San Diego sunflower	None/ None/ List A/ 1B.3	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest/openings and burned areas/ perennial herb/ Apr-Jun/ 3002-9564	No	Not expected to occur	The Project Area is located outside the species' known elevation range and lacks suitable vegetation.
Hulsea mexicana Mexican hulsea	None/ None/ List B/ 2B.3	Chaparral(volcanic, often on burns or disturbed areas)/ annual/perennial herb/ Apr-Jun/ 3937-3937	No	Not expected to occur	The Project Area is located outside the species' known elevation range and lacks suitable vegetation and soils.
Hulsea vestita ssp. *callicarpha* Beautiful hulsea	None/ None/ List D/ 4.2	Chaparral, lower montane coniferous forest; rocky or gravelly, granitic/ perennial herb/ May-Oct/ 3001-10006	No	Absent	The Project Area is located outside the species' known elevation range and lacks suitable vegetation. Species would have been detected during onsite surveys.
Hymenothrix wrightii Wright's hymenothrix	None/ None/ List D/ 4.3	Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/ perennial herb/ Jun-Oct/ 4593-5085	No	Absent	The Project Area is located outside the species' known elevation range and lacks suitable vegetation. Species would have been detected during onsite surveys.
Ipomopsis tenuifolia Slender-leaved ipomopsis	None/ None/ List B/ 2B.3	Chaparral, Pinyon and juniper woodland, Sonoran desert scrub/gravelly or rocky/ perennial herb/ Mar-May/ 328-3937	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Isocoma menziesii var. decumbens Decumbent goldenbush	None/ None/ List A/ 1B.2	Chaparral, Coastal scrub(sandy, often in disturbed areas)/ perennial shrub/ Apr-Nov/ 33-443	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Iva hayesiana San Diego marsh-elder	None/ None/ List B/ 2B.2	Marshes and swamps, Playas/ perennial herb/ Apr-Oct/ 33-1640	No	Absent	The Project Area is located within the species' known elevation range and there is HW present; however, those communities are limited in size and surrounded by disturbance therefore providing negligible biological function. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Juglans californica California black walnut	None/ None/ List D/ 4.2	Chaparral, cismontane woodland, coastal scrub/; alluvial/ deciduous tree/ Mar-Aug/ 164-2952	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Juncus acutus var. *leopoldii* Southwestern spiny rush	None/ None/ List D/ 4.2	Coastal dunes (mesic), meadows and seeps (alkaline seeps), coastal saltwater marsh/ rhizomatous herb/ (Mar) May-Jun/ 10-2952	No	Low	The Project Area is located within the species' known elevation range and there is HW present; however, those communities are limited in size and surrounded by disturbance therefore providing negligible biological function. This species is known to occur within the vicinity[2].
Juncus cooperi Cooper's rush	None/ None/ List D/ 4.3	Meadows and seeps(mesic, alkaline or saline)/ perennial herb/ Apr-May(Aug),/ -853-5807	No	Low	HW onsite are limited in size and surrounded by disturbance therefore providing negligible biological function. The Project Area is located slightly below the species' known elevation range and suitable soils are absent.
Lasthenia glabrata ssp. *coulteri* Coulter's goldfields	None/ None/ List A/ 1B.1	Marshes and swamps(coastal salt), Playas, Vernal pools/ annual herb/ Feb-Jun/ 3-4003	No	Low	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance therefore providing negligible biological function. This species is known to occur within the vicinity[2].
Lathyrus splendens Pride of California	None/ None/ List D/ 4.3	Chaparral/ perennial herb/ Mar-Jun/ 656-5003	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Lepechinia cardiophylla Heart-leaved pitcher sage	None/ None/ List A, MSCP NE/ 1B.2	Closed-cone coniferous forest, Chaparral, Cismontane woodland/ perennial shrub/ Apr-Jul/ 1706-4495	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Lepechinia ganderi *Gander's pitcher sage*	None/ None/ List A, MSCP NE/ 1B.3	Closed-cone coniferous forest, Chaparral, Coastal scrub, Valley and foothill grassland/Gabbroic or metavolcanic/ perennial shrub/ Jun-Jul/ 1001-3297	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils.
Lepidium flavum var. *felipense* Borrego Valley pepper-grass	None/ None/ List A/ 1B.2	Pinyon and juniper woodland, Sonoran desert scrub/sandy/ annual herb/ Mar-May/ 1493-2756	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.

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Lepidium virginicum var. *robinsonii* Robinson pepper-grass	None/ None/ List A/ 4.3	Chaparral, Coastal scrub/ annual herb/ Jan-Jul/ 3-2904	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Leptosiphon floribundus ssp. hallii Santa Rosa Mountain leptosiphon	None/ None/ List A/ 1B.3	Pinyon and juniper woodland, Sonoran desert scrub/ perennial herb/ May-Jul/ 3281-6562	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Leptosyne maritima Sea dahlia	None/ None/ List B/ 2B.2	Coastal bluff scrub, coastal scrub/ perennial herb/ Mar-May/ 16-492	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Lessingia glandulifera var. *tomentosa* Warner Springs lessingia	None/ None/ List A/ 1B.1	Chaparral(sandy)/ annual herb/ Aug-Oct/ 2854-4003	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Lewisia brachycalyx Short-sepaled lewisia	None/ None/ List B/ 2B.2	Lower montane coniferous forest, Meadows and seeps/mesic/ perennial herb/ Feb-Jun(Jul),/ 4495-7546	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Lilium humboldtii ssp. ocellatum Ocellated Humboldt lily	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland/openings/ perennial bulbiferous herb/ Mar-Jul(Aug),/ 98-5906	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Lilium parryi Lemon Lily	None/ None/ List A/ 1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest/mesic/ perennial bulbiferous herb/ Jul-Aug/ 4003-9006	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Limnanthes alba ssp. *parishii* Cuyamaca meadowfoam	None/ SE/ List A/ 1B.2	Lower montane coniferous forest, meadows and seeps, vernal pools; vernally mesic/ annual herb/ Apr-Jun/ 1968-6561	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range and lacks vernal pools.
Linanthus bellus Desert beauty	None/ None/ List B/ 2B.1	Chaparral(sandy)/ annual herb/ Apr-May/ 3281-4593	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Linanthus orcuttii Orcutt's linanthus	None/ None/ List A/ 1B.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland/openings/ annual herb/ May-Jun/ 3002-7037	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Lupinus excubitus var. *medius* Mountain Springs bush lupine	None/ None/ List A/ 1B.3	Pinyon and juniper woodland, Sonoran desert scrub/ perennial shrub/ Mar-May/ 1394-4495	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Lycium californicum California box-thorn	None/ None/ List D/ 4.2	Coastal bluff scrub, Coastal scrub/ perennial shrub/ (Dec),Mar-Aug/ 16-492	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Lycium parishii Parish's desert-thorn	None/ None/ List B/ 2B.3	Coastal scrub, Sonoran desert scrub/ perennial shrub/ Mar-Apr/ 1001-3281	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Lyrocarpa coulteri [Palmer's lyrepod	None/ None/ List D/ 4.3	Sonoran desert scrub(gravelly or rocky)/ perennial herb/ Dec-Apr/ 394-2608	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Malacothamnus aboriginum Indian Valley bush mallow	None/ None/ List A/ 1B.2	Chaparral, Cismontane woodland/Rocky, granitic, often in burned areas/ perennial deciduous shrub/ Apr-Oct/ 492-5577	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Malperia tenuis Brown turbins	None/ None/ List B/ 2B.3	Sonoran desert scrub(sandy, gravelly)/ annual herb/ (Feb),Mar-Apr/ 49-1099	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Matelea parvifolia Spearleaf	None/ None/ List B/ 2B.3	Mojavean desert scrub, Sonoran desert scrub/rocky/ perennial herb/ Mar-May/ 1444-3593	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Mentzelia hirsutissima Hairy stickleaf	None/ None/ List B/ 2B.3	Sonoran desert scrub(rocky)/ annual herb/ Mar-May/ 0-2297	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation.

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Microseris douglasii ssp. *platycarpha* Small-flowered microseris	None/ None/ List D/ 4.2	Cismontane woodland, coastal scrub, valley and foothill grassland, clays/ annual herb/ Mar-May/ 49-3510	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and clay soils. This species is known to occur within the vicinity[2].
Mimulus aurantiacus var. *aridus* Low bush monkeyflower	None/ None/ List D/ 4.3	Chaparral, rocky; Sonoran desert scrub/ evergreen shrub/ Apr-Jul/ 2460-3937	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable.
Mimulus clevelandii Cleveland's monkeyflower	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest/Gabbroic, often in disturbed areas, openings, rocky/ perennial rhizomatous herb/ Apr-Jul/ 1476-6562	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils.
Mimulus palmeri Palomar monkeyflower	None/ None/ List D/ None	Chaparral, lower montane coniferous forest; sandy or gravelly/ annual herb/ Apr-Jun/ 4002-6003	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Mimulus latidens Vernal pool monkeyflower	None/ None/ List A/ CBR	Valley grassland, foothill woodland, wetland-riparian/ annual herb/ 0 - 8202	No	Low	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function.
Mirabilis tenuiloba Slender-lobed four o'clock	None/ None/ List D/ 4.3	Sonoran desert scrub/ perennial herb/ (Feb),Mar-May/ 984-3593	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils.
Monardella hypoleuca ssp. lanata Felt-leaved monardella	None/ None/ List A / 1B.2	Chaparral, Cismontane woodland/ perennial rhizomatous herb/ Jun-Aug/ 984-5167	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Monardella macrantha ssp. *hallii* Hall's monardella	None/ None/ List A/ 1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/ perennial rhizomatous herb/ Jun-Oct/ 2395-7201	No	Absent	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys.
Monardella nana ssp. *leptosiphon* San Felipa monardella	None/ None/ List A/ 1B.2	Chaparral, Lower montane coniferous forest/ perennial rhizomatous herb/ Jun-Jul/ 3937-6086	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Monardella stoneana Jennifer's monardella	None/ None/ List A/ 1B.2	Closed-cone coniferous forest, chaparral, coastal scrub, riparian scrub; usually rocky intermittent streambeds/ perennial herb/ Jun-Sep/ 32- 2591	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and intermittent streambeds.
Monardella viminea Willowy monardella	FE/ SE/ List A / 1B.1	Chaparral, Coastal scrub, Riparian forest, Riparian scrub, Riparian woodland/alluvial ephemeral washes/ perennial herb/ Jun-Aug/ 164-738	No	Low	The Project Area is located within the species' known elevation range; however, the dORF onsite are limited in size and disturbed; therefore, providing negligible biological function. This species is known to occur within the vicinity[2].
Mucronea californica California spineflower	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland/sandy/ annual herb/ Mar-Jul(Aug),/ 0-4593	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Myosurus minimus ssp. *apus* Little mousetail	None/ None/ List C/ 3.1	Valley and foothill grassland, Vernal pools(alkaline)/ annual herb/ Mar-Jun/ 66-2100	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Nama stenocarpum Mud nama	None/ None/ List B/ 2B.2	Marshes and swamps(lake margins, riverbanks)/ annual/perennial herb/ Jan-Jul/ 16-1640	No	Low	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function.
Nasturtium gambellii Gambel's watercress	FE/ ST/ List A/ 1B.1	Marshes and swamps, freshwater or brackish/ rhizomatous herb/ Apr – Oct/ 16-1082	No	Absent	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. Species would have been detected during onsite surveys.

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Navarretia fossalis Spreading navarretia	FT/ None/ List A/ 1B.1	Chenopod scrub, Marshes and swamps(assorted shallow freshwater), Playas, Vernal pools/ annual herb/ Apr-Jun/ 98-2149	No	Low	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. This species is known to occur within the vicinity[2].
Navarretia peninsularis Peninsular navarretia	None/ None/ List A/ 1B.2	Chaparral(openings), Lower montane coniferous forest, Meadows and seeps, Pinyon and juniper woodland/mesic/ annual herb/Jun-Aug/ 4921-7546	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range
Navarretia prostrata Prostrate vernal pool navarretia	None/ None/ List A/ 1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland(alkaline), Vernal pools/Mesic/ annual herb/ Apr-Jul/ 49-3970	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range
Nemacaulis denudata var. denudata Coast woolly-heads	None/ None/ List A/ 1B.2	Coastal dunes/ annual herb/ Apr-Sep/ 0-328	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Nemacaulis denudata var. gracilis *Slender woolly-heads*	None/ None/ List B/ 2B.2	Coastal dunes, Desert dunes, Sonoran desert scrub/ annual herb/ (Mar),Apr-May/ -164-1312	No	Not expected to occur	The Project Area is located within the species' known elevation range; however, Project Area lacks suitable vegetation.
Nolina cismontana Chaparral beargrass	None/ None/ List A/ 1B.2	Chaparral, Coastal scrub/sandstone or gabbro/ perennial evergreen shrub/ (Mar),May-Jul/ 459-4183	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. Conspicuous shrub would have been detected during onsite surveys.
Nolina interrata Dehesa nolina	None/ SE/ List A, MSCP NE / 1B.1	Chaparral(gabbroic, metavolcanic, or serpentinite)/ perennial herb/ Jun-Jul/ 607-2805	No	Absent	The Project Area is located within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. Conspicuous shrub would have been detected during onsite surveys.
Ophioglossum californicum California adder's-tongue	None/ None/ List D/ 4.2	Chaparral, valley and foothill grassland, vernal pools (margins); mesic/ rhizomatous herb/ (Dec) Jan-Jun/ 196-1722	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation and vernal pools. This species is known to occur within the vicinity[2].
Opuntia wigginsii Wiggins cholla	None/ None/ List C/ 3.3	Sonoran desert scrub(sandy)/ perennial stem succulent/ Mar/ 98-2904	No	Absent	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. Conspicuous stem succulent would have been detected during onsite surveys.
Orcuttia californica California Orcutt grass	FE/ SE/ List A/ 1B.1	Vernal pools/ annual herb/ Apr-Aug/ 49-2165	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Ornithostaphylos oppositifolia Baja California birdbush	None/ SE/ List B/ 2B.1	Chaparral/ perennial evergreen shrub/ Jan-Apr/ 180-2625	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Orobanche parishii ssp. *brachyloba* Short-lobed broomrape	None/ None/ List D/ 4.2	Coastal bluff scrub, Coastal dunes, Coastal scrub/sandy/ perennial herb parasitic/ Apr-Oct/ 10-1001	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Packera ganderi Gander's ragwort	None/ SR/ List A/ 1B.2	Chaparral(burns, gabbroic outcrops)/ perennial herb/ Apr-Jun/ 1312-3937	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Pectocarya peninsularis Baja California bur-comb	None/ None/ List D/ Not listed	Sonoran desert; washes, roadsides, clearings/ annual herb/ 98-984	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Penstemon clevelandii var. connatus San Jacinto beardtongue	None/ None/ List D/ 4.3	Chaparral, Pinyon and juniper woodland, Sonoran desert scrub/rocky/ perennial herb/ Mar-May/ 1312-4921	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Penstemon thurberi Thurber's beardtongue	None/ None/ List D/ 4.2	Chaparral, Joshua tree "woodland", Pinyon and juniper woodland, Sonoran desert scrub/ perennial herb/ May-Jul/ 1640-4003	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.

Scientific Name Common Name	Status (Federal/ State/ County / CRPR)1	Habitat Requirements/ Life Form/Blooming Period/ Elevation Range (feet)	Verified on Project Area (direct/ indirect evidence)	Potential to Occur On Project Area	Factual Basis for Determination
Pentachaeta aurea ssp. *aurea* Golden-rayed pentachaeta	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland, Valley and foothill grassland/ annual herb/ Mar-Jul/ 262-6070	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Perideridia gairdneri ssp. gairdneri Gairdener's yampah	None/ None/ List D/ 4.2	Broadleafed upland forest, Chaparral, Coastal prairie, Valley and foothill grassland, Vernal pools/vernally mesic/ perennial herb/ Jun-Oct/ 0-2001	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Phacelia stellaris Brand's star phacelia	None/ None/ List A/ 1B.1	Coastal dunes, coastal scrub/ annual herb/ Mar – Jun/ 3-1312	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Pilostyles thurberi Thurber's pilostyles	None/ None/ List D/ 4.3	Sonoran desert scrub/ perennial herb parasitic/ Jan/ 0-1198	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Pinus torreyana ssp. *torreyana* Torrey pine	None/ None/ List A/ 1B.2	Closed-cone coniferous forest, Chaparral/Sandstone/ perennial evergreen tree/ NA/ 246-525	No	Absent	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation. Tree would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Piperia cooperi Cooper's rein orchid	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Valley and foothill grassland/ perennial herb/ Mar-Jun/ 49-5200	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Piperia leptopetala Narrow-petaled rein orchid	None/ None/ List D/ 4.3	Cismontane woodland, Lower montane coniferous forest, Upper montane coniferous forest/ perennial herb/ May-Jul/ 1247-7300	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Poa atropurpurea San Bernardino bluegrass	FE/ None/ List A/ 1B.2	Meadows and seeps(mesic)/ perennial rhizomatous herb/ (Apr),May-Jul(Aug),/ 4462-8054	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Pogogyne abramsii San Diego mesa mint	FE/ SE/ List A/ 1B.1	Vernal pools/ annual herb/ Mar-Jul/ 295-656	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vernal pools. This species is known to occur within the vicinity[2].
Pogogyne nudiuscula Otay Mesa mint	FE/ SE/ List A/ 1B.1	Vernal pools/ annual herb/ May-Jul/ 295-820	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vernal pools. This species is known to occur within the vicinity[2].
Polygala cornuta var. *fishiae* Fish's milkwort	None/ None/ List D/ 4.3	Chaparral, Cismontane woodland, Riparian woodland/ perennial deciduous shrub/ May-Aug/ 328-3281	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Proboscidea althaeifolia Desert unicorn-plant	None/ None/ List D/ 4.3	Sonoran desert scrub(sandy)/ perennial herb/ May-Aug(Sep),(Oct),/ 279-3281	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Quercus cedrosensis Cedros Island oak	None/ None/ List B/ 2B.2	Closed-cone coniferous forest, chaparral, coastal scrub/ evergreen tree/ Apr – May/ 836-3149	No	Absent	The Project Area is slightly outside of the species' known elevation range and the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Quercus dumosa Nuttall's scrub oak	None/ None/ List A/ 1B.1	Closed-cone coniferous forest, Chaparral, Coastal scrub/sandy, clay loam/ perennial evergreen shrub/ Feb-Apr(Aug),/ 49-1312	No	Absent	The Project Area is within the species' known elevation range; however, lacks suitable vegetation. Conspicuous shrub would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Quercus engelmannii Engelmann oak	None/ None/ List D/ 4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland/ perennial deciduous tree/ Mar-Jun/ 164-4265	No	Absent	The Project Area is within the species' known elevation range; however, lacks suitable vegetation. Tree would have been detected during onsite surveys. This species is known to occur within the vicinity[2].

Scientific Name Common Name	Status (Federal/ State/ County / CRPR)1	Habitat Requirements/ Life Form/Blooming Period/ Elevation Range (feet)	Verified on Project Area (direct/ indirect evidence)	Potential to Occur On Project Area	Factual Basis for Determination
Rhus aromatica var. *simplicifolia* Single-leaf basketbush	None/ None/ List B/ 2B.3	Pinyon and juniper woodland/ deciduous shrub/ Mar – Apr/ 4002-4497	No	Absent	The Project Area is outside of the species' known elevation range and the lacks suitable vegetation. Conspicuous shrub would have been detected during onsite surveys.
Ribes canthariforme Moreno currant	None/ None/ List A/ 1B.3	Chaparral, Riparian scrub/ perennial deciduous shrub/ Feb-Apr/ 1115-3937	No	Not expected to occur	The Project Area is outside of the species' known elevation range and lacks suitable vegetation.
Ribes viburnifolium Santa Catalina Island currant	None/ None/ List A/ 1B.2	Chaparral, Cismontane woodland/ perennial evergreen shrub/ Feb-Apr/ 98-1148	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Romneya coulteri Coulter's matilija poppy	None/ None/ List D/ 4.2	Chaparral, Coastal scrub/Often in burns/ perennial rhizomatous herb/ Mar-Jul/ 66-3937	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Rosa minutifolia Small-leaved rose	None/ SE/ List B / 2B.1	Chaparral, Coastal scrub/ perennial deciduous shrub/ Jan-Jun/ 492-525	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Rubus glaucifolius var. ganderi Cuyamaca raspberry	None/ None/ List A/ 3.1	Lower montane coniferous forest(gabbroic)/ perennial evergreen shrub/ May-Jun/ 3937-5495	No	Not expected to occur	The Project Area is outside of the species' known elevation range and lacks suitable vegetation.
Rupertia rigida Parish's rupertia	None/ None/ List D/ 4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Pebble plain, Valley and foothill grassland/ perennial herb/ Jun-Aug/ 2297-8202	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Saltugilia caruifolia Caraway-leaved woodland-gilia	None/ None/ List D/ 4.3	Chaparral, Lower montane coniferous forest/Sandy, openings/ annual herb/ May-Aug/ 2756-7546	No	Not expected to occur	The Project Area is outside of the species' known elevation range and lacks suitable vegetation.
Salvia eremostachya Desert sage	None/ None/ List D/ 4.3	Sonoran desert scrub(rocky or gravelly)/ perennial evergreen shrub/ Mar-May/ 2297-4593	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Salvia munzii Munz's sage	None/ None/ List B/ 2B.2	Chaparral, Coastal scrub/ perennial evergreen shrub/ Feb-Apr/ 394-3494	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Scutellaria bolanderi ssp. *austromontana* Southern mountains skullcap	None/ None/ List A/ 1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest/mesic/ perennial rhizomatous herb/ Jun-Aug/ 1394-6562	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Selaginella asprella Bluish spike-moss	None/ None/ List D/ 4.3	Cismontane woodland, Lower montane coniferous forest, Pinyon and juniper woodland, Subalpine coniferous forest, Upper montane coniferous forest/granitic, rocky/ perennial rhizomatous herb/ Jul/ 5249-8858	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Selaginella cinerascens Ashy spike-moss	None/ None/ List D/ 4.1	Chaparral, Coastal scrub/ perennial rhizomatous herb/ NA/ 66-2100	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Selaginella eremophila Desert spike-moss	None/ None/ List B/ 2B.2	Chaparral, Sonoran desert scrub(gravelly or rocky)/ perennial rhizomatous herb/ (May),Jun(Jul),/ 656-2953	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Senecio aphanactis Rayless ragwort	None/ None/ List B/ 2B.2	Chaparral, Cismontane woodland, Coastal scrub/sometimes alkaline/ annual herb/ Jan-Apr/ 49-2625	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation and soils. This species is known to occur within the vicinity[2].
Senna covesii *Cove's cassia*	None/ None/ List B/ 2B.2	Sonoran desert scrub(sandy)/ perennial herb/ Mar-Jun/ 935-3510	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Sibaropsis hammittii Hamitt's clay cress	None/ None/ List A/ 1B.2	Chaparral(openings), Valley and foothill grassland/clay/ annual herb/ Mar-Apr/ 2362-3494	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Spermolepis echinata Bristly scaleseed	None/ None/ List B/ CBR	Sonoran desert scrub(sandy or rocky)/ annual herb/ Mar-Apr/ 197-4921	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.

Scientific Name Common Name	Status (Federal/ State/ County / CRPR)1	Habitat Requirements/ Life Form/Blooming Period/ Elevation Range (feet)	Verified on Project Area (direct/ indirect evidence)	Potential to Occur On Project Area	Factual Basis for Determination
Stemodia durantifolia Purple stemodia	None/ None/ List B/ 2B.1	Sonoran desert scrub(often mesic, sandy)/ perennial herb/ Jan-Dec/ 591-984	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation This species is known to occur within the vicinity[2]..
Stipa diegoensis San Diego County needlegrass	None/ None/ List D/ 4.2	Chaparral, Coastal scrub/rocky, often mesic/ perennial herb/ Feb-Jun/ 33-2625	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Streptanthus bernardinus Laguna Mountains jewelflower	None/ None/ List D/ 4.3	Chaparral, Lower montane coniferous forest/ perennial herb/ May-Aug/ 2198-8202	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Streptanthus campestris Southern jewelflower	None/ None/ List A/ 1B.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland/rocky/ perennial herb/ (Apr),May-Jul/ 2953-7546	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Stylocline citroleum Oil neststraw	None/ None/ List A/ 1B.1	Chenopod scrub, Coastal scrub, Valley and foothill grassland/clay/ annual herb/ Mar-Apr/ 164-1312	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.
Suaeda esteroa estuary seablite	FE/ None/ List A/ 1B.2	Marshes and swamps(coastal salt)/ perennial herb/ May-Oct(Jan),/ 0-16	No	Not expected to occur	The Project Area is located outside of the species' known elevation range and the Project Area lacks suitable coastal salt marshes and swamps. This species is known to occur within the vicinity[2].
Suaeda taxifolia Woolly seablite	None/ None/ List D/ 4.2	Coastal bluff scrub, Coastal dunes, Marshes and swamps(margins of coastal salt)/ perennial evergreen shrub/ Jan-Dec/ 0-164	No	Absent	The Project Area is located within the species' known elevation range; however, HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Tetracoccus dioicus Parry's tetracoccus	None/ None/ List A/ 1B.2	Chaparral, Coastal scrub/ perennial deciduous shrub/ Apr-May/ 541-3281	No	Absent	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. Conspicuous shrub would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Thermopsis californica var. *semota* Velvety false lupine	None/ None/ List A/ 1B.2	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Valley and foothill grassland/ perennial rhizomatous herb/ Mar-Jun/ 3281-6135	No	Not expected to occur	HW onsite are limited in size and surrounded by disturbance; therefore, providing negligible biological function. The Project Area is located outside of the species' known elevation range.
Viguiera laciniata San Diego County viguiera	None/ None/ List D/ 4.3	Chaparral, Coastal scrub/ perennial shrub/ Feb-Jun(Aug),/ 197-2461	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. This species is known to occur within the vicinity[2].
Viguiera purisimae La Purisima viguiera	None/ None/ List A/ 2B.3	Coastal bluff scrub, chaparral/ shrub/ Apr – Sep/ 1197-1394	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Viola purpurea ssp. *aurea* Golden violet	None/ None/ List B/ 2B.2	Great Basin scrub, Pinyon and juniper woodland/sandy/ perennial herb/ Apr-Jun/ 3281-8202	No	Not expected to occur	The Project Area is outside of the species' known elevation range and the Project Area lacks suitable vegetation.
Xanthisma junceum Rush-like bristleweed	None/ None/ List D/ 4.3	Chaparral, Coastal scrub/ perennial herb/ Jun-Jan/ 787-3281	No	Absent	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation. Species would have been detected during onsite surveys. This species is known to occur within the vicinity[2].
Xylorhiza orcuttii Orcutt's woody aster	None/ None/ List A/ 1B.2	Sonoran desert scrub/ perennial herb/ Mar-Apr/ 0-1198	No	Not expected to occur	The Project Area is within the species' known elevation range; however, the Project Area lacks suitable vegetation.

[1] Legend
FE: Federally listed as endangered
FT: Federally listed as threatened
FC: Federal Candidate for listing
DL: Delisted
SE: State listed as endangered
ST: State listed as threatened
SC: State Candidate for listing

SR: State Rare
CRPR 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
CRPR 2A: Plants presumed extirpated in California but common elsewhere
CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3: Review List: Plants about which more information is needed
CRPR 4: Watch List: Plants of limited distribution
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)
CBR: Considered but Rejected
[2] Vicinity" is based on a search of the CNDDB and CNPS databases for the Escondido quad and the eight surrounding quads conducted in February 2014.

APPENDIX D

Sensitive Wildlife Species Detected or Potentially Occurring in Project Area

APPENDIX D
Sensitive Wildlife Species Detected or Potentially Occurring in Project Area

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
		Amphibians			
Anaxyrus californicus Arroyo toad	FE/SSC/Group 1, MSCP Narrow Endemic	Washes, arroyos, sandy riverbanks, riparian areas with willows, sycamores, oaks cottonwoods. Requires exposed sandy stream sides with stable terraces to burrow with scattered vegetation and calm pools with sandy/gravel bottoms for breeding. Found west of desert in coastal areas from upper Salinas River in San Luis Obispo Co. to northwestern Baja California; 0-900m(1).	No	Absent	No suitable habitat on site. Herbaceous wetlands (HW) on site have negligible biological function. Waters present within disturbed oak riparian forest (dORF) lack sandy/gravel bottoms for breeding and partly contain concrete bottoms. Closest Californian Natural Diversity Database (CNDDB; CDFW 2022) occurrence approximately 2 miles east of Project Area.
Spea hammondii Western spadefoot	BLMS/SSC/Group 2	Sandy/gravelly soils within mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Breeds in rain pools that do not have bullfrogs, fish, or crayfish. Found throughout Great Valley and foothills south of Redding, throughout South Coast Ranges in southern California south of Transverse Mts and west of Peninsular Mts; 0-1,365m (1).	No	Absent	No suitable habitat on site. HW on site has negligible biological function. Waters present on site lack sandy/gravelly soils and partly contain concrete bottoms. Closest CNDDB occurrence approximately 3.5 miles south, 4 miles south, and 5 miles west of Project Area.
Rana draytonii California Red-legged frog	FT/SSC/Group 1, MSCP Narrow Endemic	Humid forests, woodlands, grasslands, coastal scrub, and stream sides with plant cover. Most common in lowland and foothills. Frequently found in woods adjacent to streams. Breeds in permanent or ephemeral water sources. Ephemeral habitats require burrows or other refuges for estivation when wetlands are dry. Occurs along coast ranges south from Mendocino Co. south and in portions of Sierra Nevada and Cascades ranges; 0-1,525m (1,2).	No	Absent	No suitable habitat on site. HW on site has negligible biological function. Waters present within dORF lack understory and suitable cover. Closest CNDDB occurrence approximately 2 miles east of Project Area.
Batrachoseps major aridus Desert slender salamander	FE/SE/Group 1	Limited geographic distribution: known only from Hidden Palm Canyon and Guadalupe Canyon on east slope of Santa Rosa Mts, Riverside Co. Occurs under limestone sheets, rocks, and talus; at the base of damp, shaded locations (e.g., spring oasis, moist cliffs) without direct sunlight (1).	No	Absent	Species has a limited geographic distribution not within project vicinity. Closest CNDDB occurrence approximately 40 miles northeast of Project Area.
Ensatina eschscholtzii klauberi Large-blotched salamander	FSS/WL/Group 1	Moist shaded evergreen and deciduous forests, oak woodlands, under rocks, logs, debris, especially peeled off bark. Found in peninsular ranges of southern California and eastern San Bernardino Mts. (1).	No	Absent	Project Area outside of subspecies range. Closest CNDDB occurrence approximately 16 miles northeast of Project Area.
Rana muscosa Southern mountain yellow-legged frog	FSS, FE (Population in San Gabriel, San Jacinto & SB Mts only), /SE, WL/Group 1	Lakes, ponds, meadow streams, isolated pools, sunny riverbanks, montane riparian, lodgepole pine, subalpine conifer, and wet meadow habitats. Occurs in the Sierra Nevada from Fresno Co. to Kern Co. In southern California isolated populations exist in the San Gabriel, San Bernardino, and San Jacinto Mts; Sierra elevations range from 370 to over 3,650m (1, 2).	No	Absent	Project Area outside of species range. Closest CNDDB occurrence approximately 17 miles northeast of Project Area. Additional occurrences within San Jacinto Mountains.
		Reptiles			
Aspidoscelis hyperythra beldingi Belding's orange-throated whiptail	FSS/WL (for full species)/Group 2	Coastal sage scrub, chamise-redshank chaparral, mixed chaparral, valley-foothill hardwood especially in areas with summer fog. Found from Santa Ana River (Orange Co.) and near Colton (San Bernardino Co.), west of Peninsular ranges, south throughout Baja California; 0-610m (1, 2).	No	Low	Suitable habitat on site may include dORF and areas adjacent to HW. However, cover on site is scant. Leaf litter is produced by orchard (ORC) but is also has a very active human presence. Closest CNDDB records (for full species) approximately 1.4 miles southwest, 2 miles west, and 2 miles east of Project Area. Additional records occur throughout the vicinity surrounding Project Area.
Salvadora hexalepis virgultea Coast patch-nosed snake	None/SSC/Group 2	Semi-arid brushy areas and chaparral in canyons, rocky hillsides, plains from northern Carrizo Plains south through coastal zone, south and west of the deserts into coastal northern Baja California; below sea level to 2,130m (1).	No	Very Low	No suitable habitat on site. Project Area lacks brushy or rocky habitats, chaparral, or coastal vegetation communities. Closest CNDDB occurrences approximately 6.8 miles west and 7.5 miles east of Project Area.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Lichanura trivirgata Rosy boa	FSS (for subspecies C.t.roseofusca)/None/Group 2 (for subspecies L.t.roseofusca)	Arid scrublands, semi-arid shrublands, rocky shrublands, rocky deserts, canyons, other rocky areas, riparian areas, desert and chaparral areas. Occurs throughout Southern California from the coast to the Mojave and Colorado deserts. Prefer areas with moderate to dense vegetation and rocky cover (1, 2).	No	Very Low	No suitable habitat on site. Project Area lacks chaparral, deserts, rocky areas. The dORF on site has only scant understory cover not suitable as cover. Leaf litter within ORC may provide cover; however species considered absent due to high human presence within and around Project Area. CNDDB records (for full species) approximately 4 miles south, 7.5 miles east, and 11 miles west of Project Area.
Aspidoscelis tigris stejnegeri San Diegan tiger whiptail	None/SSC/Group 2	Variety of habitats, primarily hot and dry open areas with sparse foliage - chaparral, woodland, riparian. Occurs in coastal southern California, west of Peninsular Ranges and south of Transverse Ranges, north to Ventura Co; 0 to 2,130m (1).	No	Low	Suitable habitat on site may include dORF and leaf little within ORC. However, high human presence within Project Area may not be suitable to species. Closest CNDDB record approximately 4 miles south and 5 miles west of Project Area.
Plestiodon skiltonianus interparietalis Coronado skink	BLMS/WL/Group 2	Grassland, woodlands, pine forests, chaparral, especially open sunny areas (e.g., clearings, edges of creeks) and rocky areas near streams with lots of vegetation. Also found in areas away from water. Occurs in inland southern California south through the north Pacific coast region of northern Baja California (1).	No	Very low	Suitable habitat on site may occur within dORF waters, which comprise a small section of the overall Project Area. Overall Project Area lacks any other preferred habitat. High human presence in Project Area may limit usage of any other area. Closest CNDDB record approximately 3.4 miles southwest of Project Area. Additional occurrences sparsely scattered throughout the region.
Crotalus ruber ruber Red diamond rattlesnake	FSS/SSC/Group 2	Arid scrub, coastal chaparral, oak and pine woodlands, rocky grassland, cultivated areas, rocky areas, dense vegetation. Occurs along coastal San Diego County to the eastern slopes of the mountains and north through western Riverside co. into southernmost San Bernardino Co.; 0 - 900m (1,2).	No	Low	Suitable habitat on site may include disturbed habitat (DH), HW, ORC, ORN, and dORF. Unsuitable habitat includes developed (DEV). Project Area experiences high human use and may limit usage by species. Closest CNDDB records approximately 3.8 and 4 miles south of Project Area.
Coleonyx variegatus abbotti San Diego banded gecko	None/SSC/Group 1	Rocky areas in coastal sage and chaparral, and occurs most often in granite or rocky outcrops in coastal and cismontane southern California from interior Ventura Co. south, and is absent from extreme outer coast (1, 2).	No	Absent	No suitable habitat on site. Site lacks rocky areas and coastal sage/chaparral. Closest CNDDB occurrence over 25 miles north of Project Area.
Phrynosoma blainvillii Blainville's horned lizard	BLMS/SSC/Group 2	Areas of sandy soil and low vegetation in valleys, foothills, semiarid mountains, grasslands, chaparral, woodland, coniferous forest, sandy areas. Often found near ant hills and in lowlands along sandy washes with scattered shrubs and along dirt roads. Occurs along the Pacific coast from the Baja California border west of the deserts and the Sierra Nevada, north to the Bay Area, and inland to Shasta Reservoir; 0-2,483m (1).	No	Low	Suitable habitat on site includes open areas, patches of loose soil, and scattered understory habitat within DH, HW, and dORF. Project Area experiences high human use and may limit usage by species. Closest CNDDB occurrence approximately 1.3 miles southeast and 1.8 miles west of Project Area. Additional occurrences heavily scattered throughout the vicinity of Project Area.
Lampropeltis zonata (pulchra) California mountain kingsnake (San Diego population)	None/None/Group 2	Coniferous forests, oak pine woodlands, riparian woodlands, chaparral, manzanita, coastal sage scrub, wooded areas near a stream with rock outcrops, talus, or rotting logs. In central San Diego Co. peninsular range s- Laguna, Palomar, Volcan, and Hot Springs Mts., Santa Ana Mts., and in Hollywood Hills, Santa Monica Mts., 0-2,750m (1).	No	Absent	No suitable habitat on site. Project Area lacks forests, woodlands, sage scrub, wooded areas near streams or rock outcrops. Closest CNDDB occurrence approximately 17.5 miles northeast of Project Area.
Diadophis punctatus similis San Diego ring-necked snake	FSS/None/Group 2	Prefers moist habitats, including wet meadows, rocky hillsides, gardens, farmlands, grassland, chaparral, mixed coniferous forests, woodlands. Found mainly in San Diego Co. along the coast and into the Peninsular range and into southwestern San Bernardino Co. (1).	No	Low	Suitable habitat on site may include moist areas within HW, ORC, or dORF. However, these moist suitable areas are relatively small and experience high human presence. Closest CNDDB occurrence approximately 10 miles southwest of Project Area. Additional occurrences sparsely scattered farther throughout region.
Anniella stebbinsi Southern California legless lizard	FSS/SSC/Group 2	Moist habitats. Loose soils with plant cover, beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, stream terraces with sycamores, cottonwoods, or oaks. Found under surface objects such as rocks, boards, driftwood, logs, leaf litter; 0-1,799m (1).	No	Low	Suitable habitat on site may include moist areas within HW, ORC, or dORF. However, these moist suitable areas are relatively small and experience high human presence. Although leaf litter is within ORC, these areas experience high human presence. Site also lacks logs, rocks, or boards to serve as refugia. Closest CNDDB occurrence approximately 3 miles west of Project Area.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Thamnophis hammondii Two-striped garter snake	BLMS, FSS/SSC/ Group 1	Associated with permanent or semi-permanent bodies of water in a variety of habitats: rocky areas, oak woodland, chaparral, brushland, coniferous forest. Found on Diablo Range, South Coast and Transverse ranges, and Santa Catalina Island; 0-2,400m (1, 2).	No	Low	No suitable habitat on site. HW on site has negligible biological function. Water that flows through dORF are partly within a concrete channel not suitable for this species. Additionally, dORF understory is scare and likely unsuitable for this species. Closest CNDDB occurrence approximately 8 miles southeast of Project Area.
Emys marmorata Western pond turtle	BLMS, FSS/SSC/Group 1	Ponds, rivers, streams, creeks, marshes, irrigation ditches with abundant vegetation and either rocky or muddy bottoms, woodland, forests, and grasslands. Logs, rocks, cattail mats, and exposed banks are required for basking. May enter brackish or sea water. Found in suitable aquatic habitat throughout California, west of the Sierra-Cascade crest and in the Mojave Desert along the Mojave River and its tributaries; 0-1,430 m (1, 2).	No	Low	No suitable habitat on site. However, HW on site have negligible biological function and water that flows through dORF are partly within a concrete channel that may provide little refugia for this species. Closest CNDDB occurrence approximately 3.5 miles northeast and 5 miles southwest of Project Area. Additional occurrences scattered throughout vicinity.
Coleonyx switaki Switak's banded gecko, barefoot gecko	None/ST/ Group 2	Primarily in rocky areas at the heads of canyons. Found in areas of massive rocks and rock outcrops, rock cracks and crevices. Found in Peninsular Ranges and at Scissor Crossing near Anza Borrego Desert (2).	No	Absent	Project Area is out of species range. Closest CNDDB occurrence approximately 30 miles east of Project Area within Anza-Borrego Desert State Park. Additional occurrences remain within Anza-Borrego and surrounding desert regions.
Phrynosoma mcallii Flat-tailed horned lizard	BLMS/SSC/Group 1	Fine sand and sparse vegetation in desert washes and desert flats. It is probably most abundant in areas of creosote bush and is found in desert scrub, wash, succulent shrub, and alkali scrub habitats. Common in areas with high density of harvester ants and fine windblown sand, rarely occurs on dunes. Found in central Riverside, eastern San Diego and Imperial Cos., 0-180m (1, 2).	No	Absent	Project Area outside of species range. Closest CNDDB occurrence approximately 37 miles east of Project Area within Anza-Borrego Desert State Park. Additional occurrences scattered farther east and north of this occurrence.
Sauromalus ater Common chuckwalla	None/None/Group 2	Rocky flats and hillsides, lava flows, large outcrops, creosote bush habitats. Also found in atypical places (e.g., burrows in dirt, piles of railroad ties, artificial rip-rap). Found in Mojave and Colorado deserts from desert slopes of mountains, north through Owens Valley and east to Colorado River, 0-1,800m (1).	No	Absent	Project Area outside of species range. No CNDDB occurrence points to report.
Sceloporus graciosus vanderburgianus Southern sagebrush lizard	None/None/Group 2	Shrublands such as chaparral, manzanita, ceanothus; open pine and Douglas-fir forests in mountains; found in areas with scattered low bushes, abundant sun. Transverse and Peninsular ranges of southern California, Sierra San Pedro Martir of northern Baja California. Subspecies found at higher elevations: 1,371-2,926m (1).	No	Absent	Project Area outside of species range and well below subspecies' elevational range. No CNDDB occurrence information.
Taricha torosa torosa Coast range newt (Monterey Co. south only)	None/SSC/Group 2	Wet forests, oak forests, chaparral, rolling grasslands; in southern California, occupies drier chaparral, oak woodland, grasslands. Coastal ranges from central Mendocino Co. south to northern San Diego Co. south to the vicinity of Boulder Creek. Found the length of the Sierra, primarily in foothills. Monterey Co. to San Diego Co. Migrations to and from breeding site may occasionally exceed 1 km; 0-1,830m (1, 2).	No	Absent	No suitable habitat on site. Project Area lacks vegetation communities to serve as refugia. Moist areas within HW, ORC, or dORF lack sufficient understory and habitat characteristics to serve as suitable habitat. However, these moist suitable areas are relatively small and experience high human presence. These areas also experience high human presence. Closest CNDDB occurrence approximately 19.5 mile southeast of Project Area. Additional occurrence farther south and north of Project Area.
Thamnophis sirtalis ssp. *novum* (*Thamnophis sirtalis* spp.) South Coast garter snake (Common garter snake)	None/SSC/Group 2	Permanent or semi-permanent bodies of water in a variety of habitats. Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools. Coastal plain from Ventura to San Diego Co., 0-850m (2, 3).	No	Very Low	Suitable habitat on site may include HW and dORF. However, HW on site have negligible biological function and water that flows through dORF are partly within a concrete channel that may provide little refugia for this species. Closest CNDDB occurrence approximately 17.5 miles northeast and 19 miles northwest of Project Area.
Uma notata Colorado Desert fringe-toed lizard	BLMS/SSC/Group 1	Fine, loose, wind-blown sand dunes, dry lakebeds, sandy beaches or riverbanks, desert washes, and sparse desert scrub in Colorado and Sonoran deserts south of the Salton Sea in Imperial and San Diego Co., 0-180m (2).	No	Absent	Project Area outside of species range. Closest CNDDB occurrence over 40 miles east of Project Area.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
		Birds			
Accipiter cooperii (nesting) Cooper's hawk	None/WL/Group 1	Dense stands of live oak, riparian deciduous, forest habitats near water frequently used. Breeds in southern Sierra Nevada foothills, New York Mts., Owens Valley, other local areas in southern California, 0-2,700m (2).	No	Low (nesting); Moderate (non-breeding)	Marginal suitable nesting habitat may include oak species within dORF; oak species may be too sparse to serve as high quality suitable breeding habitat. Non-breeding perching habitat or foraging may occur within trees in dORF and also the avocado trees within the orchard. Closest CNDDB occurrences approximately 15.5 miles northwest and 15 miles southeast of Project Area.
Accipiter striatus (nesting) Sharp-shinned hawk	None/WL/Group 1	Nests in coniferous forests, ponderosa pine, black oak, riparian deciduous, mixed conifer, Jeffrey pine; winters in lowland woodlands and other habitats. Common migrant and winter resident throughout California. Probably breeds south in Coast Ranges and at scattered locations in Transverse and Peninsular Ranges (2).	No	Absent (nesting); Low (non-breeding)	This species does not breed within the region but may winter in the area. Non-breeding perching and foraging habitat may occur within dORF and trees within orchard. However, closest CNDDB occurrences in North Chalone Peak, over 300 miles northwest of Project Area.
Aechmophorus occidentalis Western grebe	None/None/Group 1	Along coast in marine subtidal and estuary waters. Uncommon to fairly common on large lakes near coast and inland at low elevations. Breed on large, marshy lakes, normally deeper than required by eared grebe. Nest on Modoc Plateau and south locally to Inyo Co.; also Sacramento National Wildlife Refuge, Salton Sea, Colorado River, and Sweetwater Reservoir (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat present on site. Project Area does not contain lakes, suitable marsh habitats, coastal estuary waters, or similar habitat. No CNDDB occurrence information.
Agelaius tricolor (colony) Tricolored Blackbird	BCC, BLMS/SSC, ST/Group1/WLBCC	Breeds in emergent wetland with tall, dense cattails or tules; willow, blackberry, tall herb thickets. Feeds in grassland and cropland habitats. Found throughout Central Valley and coastal areas south of Sonoma Co. (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands for breeding or grassland/cropland habitat for foraging. HW on site has negligible biological function. Closest CNDDB occurrence approximately 6 miles southeast of Project Area within freshwater marsh.
Aimophila ruficeps canescens Southern California rufous-crowned sparrow	None/WL/Group 1	Sparse mixed chaparral and coastal scrub habitats (especially coastal sage) in southern California on slopes of Transverse and Coastal ranges, north to Los Angeles County, and northwestern Baja California. Found on steep, rocky hillsides with grass and forb patches, and grassy slopes with low shrub cover, if rock outcrops are present (2, 4).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat present on site. Project Area lacks rocky hillsides with vegetation, suitable grassy slopes, shrub cover, or rock outcrops. Closest CNDDB occurrence approximately 2 miles southeast of Project Area within San Diego Wild Animal Park. Additional occurrences scattered throughout vicinity.
Ammodramus savannarum (nesting) Grasshopper sparrow	None/SSC/Group 1	Dry, dense grasslands, especially with a variety of grasses and tall forbs, scattered shrubs for singing perches. Summer resident and breeder in foothills and lowlands west of Cascade-Sierra Nevada crest from Mendocino and Trinity Cos. south to San Diego Co. In southern California, occurs on hillsides and mesas in coastal areas, breeds up to 1,500m (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat present on site. Project Area lacks dry, dense grasslands or suitable shrubs for perching. Closest CNDDB occurrence approximately 16 miles south of Project Area along the north edge of Santee.
Anas strepera Gadwall	None/None/Group 2	Interior valleys, wetlands, ponds, and streams. Feeds and rests in freshwater lacustrine and emergent habitats, and to a lesser extent, estuarine and saline emergent habitats, and nests in nearby herbaceous and cropland habitats. Common in Central Valley and less common in Coast Range foothills of central and southern California. Locally common in Imperial Valley and along Colorado River, October to March. Breeds on northeastern plateau and east of Sierra Nevada (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands, ponds, or suitable streams. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB occurrence information.
Anser caerulescens (winter) Snow goose	None/None/Group 2	Fresh emergent wetlands, adjacent lacustrine waters, and nearby wet croplands, pastures, meadows, and grasslands. Occasionally found in saline (brackish) emergent wetlands and adjacent estuarine waters. Found primarily in Central Valley; less common southward in the interior but abundant in Imperial Valley and locally common along Colorado River. Found regularly only in southern California along Coast Ranges and immediate coast from mid-November to February (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands, ponds, or suitable streams. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB occurrence information.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Aquila chrysaetos (nesting and wintering) Golden eagle	BLM/FP, WL/Group 1	Open country, especially hilly and mountainous regions; grassland, coastal sage scrub, chaparral, oak savannas, open coniferous forest. Rolling foothills, mountain areas, sage-juniper flats, desert throughout California (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks mountainous regions, grasslands, coastal sage scrub, forests, and similar habitats for nesting or foraging. Closest CNDDB occurrence approximately 4 miles northeast and 4 miles southeast within nearby mountainous regions.
Ardea herodias (nesting colony) Great blue heron	None/CDF-S/Group 2	Variety of habitats, but primarily shallow estuaries and fresh and saline emergent wetlands; lakes, rivers, marshes, mudflats, estuaries, saltmarsh, riparian habitats. Found throughout most of California. Few rookeries in southern California; more numerous in northern California (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands, estuaries, lakes, rivers, saltmarshes, or similar habitats. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Closest CNDDB occurrence approximately 60 miles east along the Salton Sea. Additional occurrences farther north and long the Colorado River.
Artemisiospiza belli belli Bell's sage sparrow	None/WL/Group 1	Occurs in low, dense stands of shrubs; chaparral dominated by chamise, coastal scrub dominated by sage. Coast Ranges from northern California to northwestern Baja California, western slope of Sierra Nevada (2). Nominate form of species designated as special-status.	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks stands of shrubs and is not located along coast ranges. No CNDDB occurrence information.
Asio flammeus (nesting) Short-eared owl	BCC/SSC/Group 2	Open areas with few trees, such as grasslands, prairies, dunes, meadows, irrigated lands, saline and fresh emergent wetlands. Breeds in coastal areas in Del Norte and Humboldt Cos., San Francisco Bay Delta, northeastern Modoc plateau, east side of Sierra from Lake Tahoe south to Inyo Co., and San Joaquin Valley. Uncommon winter migrant in southern California, and widespread during winter in Central Valley and coastline (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks open grasslands, prairie, dunes, meadows, suitable wetlands, or suitable irrigated lands. Closest CNDDB occurrence approximately 80 miles east of Project Area within the Colorado desert, adjacent to the Salton Sea.
Asio otus (nesting) Long-eared owl	BCC/SSC/Group 1	Riparian, live oak thickets, other dense stands of tree. Uncommon winter visitor in southern California deserts and Central Valley; uncommon resident throughout the rest of the state (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks dense stands of trees or suitable riparian habitat to support breeding or perching locations. Closest CNDDB occurrence approximately 43 miles north within Caspers Wilderness Park.
Athene cunicularia burrow sites and some wintering sites) Burrowing owl	BCC, BLMS/SSC/Group 1, MSCP Narrow Endemic	Open, dry grassland and desert habitats; grass, forb and open shrub stages of pinyon-juniper and ponderosa pine habitats throughout the state, 0-1,600m (2).	No	Very low (burrowing sites or wintering sites)	No suitable habitat present on site. Project Area lacks dry grasslands, open habitat for foraging, and desert habitats suitable for this species. The closest CNDDB occurrence is approximately 3 miles west of the Project Area, but is an occurrence from 1924 and the location is now highly urbanized. The next nearest CNDDB occurrence is approximately 7 miles southeast of the Project Area.
Aythya americana (nesting) Redhead	None/SSC/Group 2	Lacustrine waters, foothills and coastal lowlands, and along the coast and Colorado River. Nests in fresh emergent wetland bordering open water. Found south of Modoc Co. to Mono Co., Central Valley, Monterey Co. south to Ventura Co.; breeds in Central Valley, eastern Kern Co., coastal southern California, and Salton Sea (2).	No	Absent (nesting or non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands or lacustrine waters. No CNDDB information.
Branta canadensis Canada goose	None/None/Group 2	Lakes, fresh emergent wetlands, moist grasslands, croplands, pastures, and meadows. Winter migrant throughout Central Valley, Salton Sea, northeastern California, also along Colorado River (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks lakes, suitable wetlands, cropland, pastures, and meadows. No CNDDB information.
Bucephala islandica (nesting) Barrow's golden eye	None/SSC/Group 2	Estuarine (lagoons and bays) and brackish lacustrine waters. Found along central California coast, San Francisco Bay, Marin and Sonoma Cos., Colorado River (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable wetlands or lacustrine waters. No CNDDB information.
Buteo lineatus Red-shouldered hawk	None/None/Group 1	Riparian and woodland habitats interspersed with swamps and wetlands found along coast, southern deserts, and in Central Valley, 0-1,500m (2).	This species was heard calling offsite during the 2022 survey.	Low (nesting); High (non-breeding)	Marginal suitable nesting habitat may include oak trees within dORF; oaks may be too sparse to serve as high quality suitable breeding habitat. Non-breeding perching and foraging habitat may occur within dORF and less dense areas of the orchard. No CNDDB information.

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Buteo regalis (wintering) Ferruginous hawk	None/WL/Group 1	Open, grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, fringes of pinyon-juniper habitats. Uncommon winter resident at low elevations and open grasslands of Modoc Plateau, Central Valley, Coast Ranges. Common winter resident in southwestern California (2).	No	Absent (nesting); Low (non-breeding)	Does not nest in the region. Project Area lacks suitable non-breeding (foraging) habitat for this species which includes open, tree-less areas or grasslands. However, non-breeding perching sites may include oaks within dORF. Closest CNDDB occurrence approximately 25 miles east in Julian.
Buteo swainsoni (nesting) Swainson's hawk	BLM/ST/Group 1	Forages in grasslands or suitable grain or alfalfa fields or livestock pastures; breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah in Central Valley (2).	No	Absent (nesting); Moderate (non-breeding)	Does not nest in the region. Project Area lacks suitable non-breeding (foraging) habitat for this species which includes grasslands or suitable pastures. However, non-breeding perching sites may include oaks within dORF. Closest CNDDB occurrence approximately 1.8 miles west of Project Area. Four additional occurrences within 9 miles of Project Area.
Butorides virescens Green heron	None/None/Group 2	Nests and roosts in valley foothill and desert riparian habitats; feeds in fresh emergent wetland, lacustrine, slow-moving riverine habitats. Resident in foothills and lowlands throughout California; common August to March in southern coastal ranges, in summer along Colorado River, and found all year at Salton Sea (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB occurrence information.
Campylorhynchus brunneicapillus sandiegensis Coastal cactus wren (San Diego & Orange Counties only)	FSS/SSC/Group 1, MSCP Narrow Endemic	Southern cactus scrub, maritime succulent scrub, cactus thickets in coastal sage scrub. In arid parts of westward-draining slopes of southern California (2).	No	Absent (nesting and non-breeding).	No suitable nesting or non-breeding habitat on site. Project Area lacks cactus scrub or similar small trees essential for nesting. Closest CNDDB occurrence approximately 0.3 miles from Project Area. Over 15 additional occurrences within a 5 mile radius of Project Area. Additional occurrences scattered throughout vicinity.
Cathartes aura Turkey vulture	None/None/Group 1	Rangeland, agriculture, grassland; uses cliffs and large trees for roosting, nesting and resting throughout most of California during breeding season (2).	Turkey vultures were observed circling and flying above the site during the 2022 survey.	Present (non-breeding); Very low (nesting)	No suitable nesting habitat on site. Marginal foraging habitat on site. However, oak trees may serve as non-breeding perching sites.
Cerorhinca monocerata (nesting colony) Rhinoceros auklet	None/WL/Group 2 (for Oceanic - Winter)	Marine pelagic waters. Nests in a burrow on undisturbed, forested or unforested islands, and probably in cliff caves. Found off northern and central California, and south of northern Channel Islands. Breeds off Del Norte and Humboldt Cos., and Farallon Islands (2).	No	Absent (nesting and non-breeding)	Project Area located outside of species suitable habitat range. Closest CNDDB occurrence approximately 200 miles northwest within the Channel Islands.
Charadrius nivosus nivosus (nesting) Western snowy plover	FT (Pacific coastal population), BCC (non-listed subspecies)/SSC (coastal and interior populations)/Group 1/WLBCC	Sandy marine and estuarine shores. Nests on these habitats and salt pond levees. Nesting areas in Salton Sea, Mono Lake, shores of alkali lakes of northeastern California, Central Valley, and southeastern deserts (2).	No	Absent (nesting and non-breeding)	Project Area located outside of species suitable habitat range. Closest CNDDB occurrence approximately 14 miles west along the Pacific coast.
Charadrius montanus (wintering) Mountain plover	FPT/BLMS/BCC/SSC/Group 2/ WLBCC	Nests in open, shortgrass prairies or grasslands; winters in shortgrass plains, plowed fields, open sagebrush, and sandy deserts. Winters in short grasslands and plowed fields of Central Valley below 1,000m (2).	No	Absent (nesting and non-breeding)	Project Area located outside of species suitable habitat range. Closest CNDDB occurrences over 60 miles east along the Salton Sea.
Chlidonias niger (nesting colony) Black tern	BCC/SSC/Group 2 (Non-breeder)	Freshwater lakes, marshes, ponds, coastal lagoons. Breeds in freshwater habitats but common on bays, salt ponds, river mouths, pelagic waters during spring and fall migration. Found throughout fresh emergent wetlands of California (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Closest CNDDB occurrence within Modoc National Forest in Northern California.
Circus hudsonius (nesting) Northern harrier	BCC/SSC/Group 1	Open wetlands (nesting), pasture, old fields, dry uplands, grasslands, rangelands, coastal sage scrub. Resident of northeastern plateau and coastal areas; less common resident in Central Valley. Breeds at marsh edge in shrubby vegetation in Central Valley and Sierra Nevada (0-1700m), and northeastern California (up to 800m) (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area lacks suitable marsh habitats, pastures, grasslands, upland, and similar habitats. Closest CNDDB occurrences approximately 21 miles northwest in Marine Corps Base Camp Pendleton.
Coccyzus americanus occidentalis (nesting) Western yellow billed cuckoo	FT, BLMS, FSS/SE/Group 1, Narrow Endemic	Dense, wide riparian woodlands and forest with well-developed understories. Valley foothill and desert riparian habitats scattered throughout California – Colorado River, Sacramento and Owens Valleys, South Fork of the Kern River, Santa Ana River, and Amargosa River (2).	No	Very low (nesting and non-breeding)	No suitable habitat on site. Project Area dORF habitat has very little understory to provide roosting or nesting habitat for this species. Closest CNDDB approximately 26 miles north of Project Area in Temecula.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Contopus cooperi (nesting) Olive-sided flycatcher	BCC/SSC/Group 2/ WLBCC	Summer resident in a wide variety of forest and woodland habitats. Preferred nesting habitats include mixed conifer, montane hardwood-conifer, Douglas-fir, redwood, red fir, and lodgepole pine. Found throughout California excluding deserts, Central Valley and other lowland valleys and basins, below 2,800m (2).	No	Very low(nesting and non-breeding)	No suitable habitat on site. Project Area lacks preferred nesting habitat for this species. Project Area also lacks suitable foraging habitat for this species (e.g., meadows, clearings, or shrub covered slopes). No CNDDB information.
Cypseloides niger (nesting) Black swift	BCC/SSC/Group 2 (non-breeder)/, WLBCC	Nests in moist crevices or caves on sea cliffs or near waterfalls in deep canyons; forages over many habitats. Nests in Sierra Nevada, Cascade Range, San Gabriel, San Bernardino, San Jacinto Mts., coastal bluffs and mountains from San Mateo Co. south to San Luis Obispo Co. (2).	No	Absent (nesting); Low (non-breeding)	No suitable nesting habitat on site. Project Area lacks crevices, caves, or canyons. Species only breeds very locally within mountainous regions. Species forages on insects over a wide variety of habitats; however, the potential for a species to forage within Project Area is low. Closest CNDDB occurrence approximately 44 miles northeast in Idyllwild.
Dendrocygna bicolor (nesting) Fulvous whistling-duck	None/SSC/ Group 2	Fresh emergent wetlands, shallow lacustrine and quiet riverine waters; feeds in wet croplands and pastures. Nests in dense wetlands of cattails in Imperial Valley along south end of Salton Sea (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Closest CNDDB occurrences over 180 miles north in Bakersfield.
Egretta rufescens Reddish egret	None/None/Group 2	Forages in saltmarsh, mudflats, coastal lagoons, barren sand, salt ponds; nests on natural islands or man-made dredge spoil islands occasionally on coastal mainland. Found in southwestern and central coastal California (4).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB information.
Elanus leucurus (nesting) White-tailed kite	BLMS/FP/Group 1	Open grasslands, savanna-like habitats, agriculture, wetlands, oak woodlands, riparian, herbaceous and open stages of most habitats in cismontane California, near agricultural areas. Found in coastal and valley lowlands of California (2).	No	Low (breeding); Low (non-breeding)	Marginal suitable nesting and non-breeding habitat may include oak trees within dORF; trees may be too sparse to serve as high quality suitable breeding habitat. Project Area lacks suitable non-breeding (foraging) habitat for this species which includes undisturbed, open grasslands, meadows, and farmlands, and emergent wetlands. However, non-breeding perching sites may include oaks within dORF. Closest CNDDB occurrence approximately 11 miles south near Ramona.
Empidonax traillii (nesting) Willow flycatcher	FSS/SE/Group 1, MSCP Narrow Endemic/ WLBCC	Riparian obligate - Riparian woodlands along streams and rivers with mature, dense tree or shrub cover where surface water or soil moisture present; may nest in habitats variable in dominant plant species (both native and exotic).	No	Very low (nesting); Very low (non-breeding)	Does not breed in San Diego County but could pass through during migration and use suitable habitat for a stopover. Project Area dORF lacks dense understory to provide suitable habitat for species. Perching and/or marginal foraging habitat on site includes dORF.
Empidonax traillii extimus (nesting) Southwestern willow flycatcher	FE/SE/Group 1, MSCP Narrow Endemic/ WLBCC	Riparian obligate - Riparian woodlands along streams and rivers with mature, dense tree or shrub cover where surface water or soil moisture present; may nest in habitats variable in dominant plant species (both native and exotic). In California, breeding range includes southern California; from near sea level California to more than 2,600m in Arizona/SW Colorado (5).	No	Very low (nesting); Very low (non-breeding)	No suitable nesting habitat on site. Project Area dORF lacks dense understory to provide suitable habitat for species. Perching and/or marginal foraging habitat on site includes dORF. Closest CNDDB occurrence approximately 3 miles south along the San Dieguito River. Next closest occurrence approximately 17 miles northeast along the San Luis Rey River.
Eremophila alpestris actia California horned lark	None/WL/Group 2	Open habitats, grassland, rangeland, shortgrass prairie, montane meadows, coastal plains, fallow grain fields south of Humboldt Co. in coast ranges, in San Joaquin Valley except extreme southern end (2, 4).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks grasslands, meadows, grain fields, and open habitats for this species. Closest CNDDB occurrence approximately 13 miles northwest and 13 miles southwest of Project Area.
Falco columbarius (wintering) Merlin	None/WL/Group 2	Coastlines, open grasslands, savannahs, woodlands, lakes, wetlands, montane hardwood-conifer habitats, ponderosa pine. Found throughout western half of state below 1,500m (2).	No	Absent (nesting and non-breeding)	Does not breed in the region. No suitable non-breeding habitat on site. Project Area lacks open grasslands, suitable wetlands, coastlines or forested habitats. Closest CNDDB over 80 miles north and east of Project Area.
Falco mexicanus (nesting) Prairie falcon	None/WL/Group 1	Grassland, savannas, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs. Southeastern deserts northwest through Central Valley and along inner Coast Ranges and Sierra Nevada (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks grasslands, savannahs, rangelands, agricultural fields, and scrub areas. Closest CNDDB approximately 16 miles east and 16 miles south of Project Area.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Falco peregrinus anatum (nesting) American peregrine falcon	(FD), BCC/(SD), CDF-S, FP/Group 1, MSCP Narrow Endemic	Nests in woodland, forest, coastal habitats along coast north of Santa Barbara and in Sierra Nevada, and other mountains of northern California. Winters in Central Valley, and is found in other riparian areas and coastal/inland wetlands (2).	No	Very low (breeding); Very low (non-breeding)	Species primarily nests on cliffs or ledges (absent in Project Area) and occasionally use trees, snags, or old raptor nests. Very low potential for species to use oaks or other trees on site for nesting. Project Area has only very marginal non-breeding (perching) habitat for species which includes oaks within dORF. Closest CNDDB occurrence approximately 26 miles southwest of Project Area. Additional occurrences over 90 miles north around Malibu and Pasadena.
Fratercula cirrhata (nesting colony) Tufted puffin	BCC/SSC/Group 2 (Oceanic)	Rocky outcroppings on islands, not necessarily near the nest, and on the ocean. Common at nesting colonies, and on nearby marine pelagic and subtidal waters. Nests on islands and, less commonly, on coastal cliffs. Found along coast from Prince Island in Del Norte Co. to Point Conception (2).	No	Absent (nesting and non-breeding)	Project Area located outside of species suitable habitat range. Closest CNDDB occurrence approximately 200 miles northwest within the Channel Islands.
Gavia immer (nesting) Common loon	None/SSC/Group 2 (winter)	Estuarine and subtidal marine habitats along entire coast (Sept-May). Uncommon on large, deep lakes in valleys and foothills; common migrant along coast, including offshore, in November and May (2).	No	Absent (nesting and non-breeding)	Project Area located outside of species suitable breeding habitat range. No suitable non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB information.
Antigone canadensis canadensis (wintering) Lesser sandhill crane	None/SSC/Group 2 (full species)	Wet meadow, shallow lacustrine, and fresh emergent wetland habitats during summer; annual and perennial grassland habitats, moist croplands, and open, emergent wetlands during winter. Winters in San Joaquin, Imperial valleys; Carrizo Plain, Brawley, and Blythe (2).	No	Absent (nesting and non-breeding)	Project Area is outside of species habitat range. No CNDDB occurrence information.
Antigone canadensis tabida (nesting and wintering) Greater sandhill crane	FSS, BLMS/ST, FP/Group 2 (full species)	Wet meadow, shallow lacustrine, and fresh emergent wetland habitats during summer; annual and perennial grassland habitats, moist croplands, and open, emergent wetlands during winter. Breeds in Siskiyou, Modoc, Lassen Cos., and Sierra Valley. Winters in Sacramento and San Joaquin valleys. Was more common in southern California (2).	No	Absent (nesting and non-breeding)	Project Area is outside of species habitat range. Closest CNDDB occurrence north of Sacramento.
Haliaeetus leucocephalus (nesting and wintering) Bald eagle	FPD, BLMS, FSS/SE, FP/Group 1 (winter)	Large bodies of water and flowing rivers with abundant fish, with adjacent snags or other perches; breeds in northern California and is found during winter at few locations throughout southern California (2).	No	Absent (nesting); Very low (non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area is not within breeding range (northern California). There is a very low potential for the species to perch within oaks on site. Although the species will scavenge dead fish, water birds, and mammals, the species usually requires large bodies of water or free flowing rivers to forage (2). Therefore, the potential for species to perch within Project Area is very low.
Icteria virens (nesting) Yellow-breasted chat	None/SSC/Group 1	Dense, relatively wide riparian woodlands and thickets of willows, vine tangles and dense brush. Coastal California, foothills of Sierra Nevada. Breeds locally on coast in southern California and very locally inland, at elevations up to 1450m in valley foothill riparian, and up to 2050m east of Sierra Nevada in desert riparian habitats (2).	No	Very low (nesting and non-breeding)	No suitable habitat on site. Project Area dORF lacks riparian thickets of willows or other brushy tangles near water to provide suitable cover (2). On site dORF understory is very sparse. Project Area also lacks riparian understory to serve as nesting habitat. Closest CNDDB occurrence approximately 8 miles southwest of Project Area within freshwater marsh. Additional occurrences sparsely scattered throughout region and along riparian/waterways.
Ixobrychus exilis (nesting) Least bittern	None/SSC/Group 2	Dense emergent wetland vegetation, sometimes interspersed with woody vegetation and open water. Nests in emergent wetlands. Common summer resident at Salton Sea and Colorado River. Breeds locally in Owens Valley and Mojave Desert and uncommon in emergent wetlands of cattails and tules in San Diego Co., and Sacramento and San Joaquin Valleys (2).	No	Very low (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Closest CNDDB occurrences approximately 16 miles north and 16.5 miles south of Project Area.
Junco hyemalis caniceps (nesting) Gray-headed junco	None/WL/Group 2 (winter-rare)	Found in forests and woodlands from montane hardwood-conifer forests up through alpine dwarf-shrub habitats. Breeds locally in White and Grapevine Mts., and on Clark Mt. in southeastern California. Species is more common east of Sierra Nevada during winter (2).	No	Absent (nesting and non-breeding)	Project Area is not within the species breeding range. Closest CNDDB occurrences over 60 miles east near the Salton Sea.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Lanius ludovicianus (nesting) Loggerhead shrike	None/SSC/Group 1	Open habitats with scattered shrubs, trees or other perches; highest density in open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper, juniper, desert riparian, and Joshua tree habitats. Found in foothills and lowlands throughout California (2).	No	Very low (nesting); very low (non-breeding)	No suitable nesting habitat on site. Project Area lacks dense trees or shrubs that would provide suitable cover for species. Project Area may not provide suitable non-breeding habitat as species feeds on insects, small birds, mammals, amphibians, reptiles, fish, and various other invertebrates (2), which were not readily observed during reconnaissance efforts. However, potential is very low because closest CNDDB occurrence approximately 33 miles north of Project Area.
Leucophaeus atricilla (nesting colony) Laughing gull	None/WL/Group 2 (non breeding, very rare)	Flocks rest on salt-pond dikes and sandpits. Breeds along seacoasts, bays, salt marshes, dunes, beaches, estuaries, rarely on large inland bodies of water. Formerly nested at southern end of Salton Sea (4).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area does not contain salt-ponds, sandpits, bays, salt marshes, dunes, beaches, or similar suitable habitat. No CNDDB information.
Larus californicus (nesting colony) California gull	BCC/WL/Group 2 (non breeding)	Along the coast: sandy beaches, mudflats, rocky intertidal and pelagic areas of marine and estuarine habitats, fresh and saline emergent wetlands. Inland: lacustrine, riverine, and cropland habitats, landfill dumps, and open lawns in cities. Nests in alkali and freshwater lacustrine habitats; adults roost along shorelines, landfills, pastures, and on islands. Nest along northeastern plateau region and at Mono Lake (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Closest CNDDB occurrence in Mono Lake.
Laterallus jamaicensis coturniculus California black rail	BLMS/FP, ST/Group 2, MSCP Narrow Endemic/WLBCC (full species)	Saline, brackish, and fresh emergent wetlands mostly in central coastal California (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area does not contain suitable saline, brackish, or wetland habitats to support this species. No CNDDB information.
Melanerpes lewis (winter) Lewis' woodpecker	BCC/None/Group 1/ WLBCC	Open oak savannahs, broken deciduous and coniferous habitats. Eastern slopes of coast ranges south to San Luis Obispo Co., winters in Central Valley, Modoc Plateau, and Transverse and other ranges in southern California. Breeds eastern slopes of coast ranges, Sierra Nevada, Cascade Range (2).	No	Very low (nesting); Very low (non-breeding)	No suitable nesting habitat on site. Although species may nest within oak species, the Project Area is not within the species breeding range and lacks brushy understory, dead or downed woody material, and abundant insects which are important for breeding habitats (14). Oak woodlands and commercial orchards are known typical habitat during winter (14). Since dORF on site is surrounded by disturbance, there is a very low potential for the species to utilize this site during winter. No CNDDB information.
Mycteria Americana (Non-breeding, very rare) Wood stork	None/SSC/Group 2	Shallow, relatively warm waters with fish for prey. Nests colonially. Found at south end of Salton Sea, San Diego Wild Animal Park (2).	No	Absent (nesting, non-breeding)	No suitable habitat on site. Project Area lacks suitable waters with fish for this species. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. No CNDDB information.
Numenius americanus (nesting) Long-billed curlew	None/WL/Group 2 (non-breeding)	Nests in upland shortgrass prairies and wet meadows in northeast California; winters in coastal estuaries, open grasslands and croplands along California coast, and in Central and Imperial valleys (2).	No	Absent (nesting and non-breeding)	Does not breed within the region. No suitable non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area does not contain suitable prairies, wet meadows, grasslands, croplands, or estuaries to support this species. No CNDDB information.
Oceanodroma furcata (nesting colony) Fork-tailed storm petrel	BLMS/SSC/Group 2 (Ocean)	Visitor on open ocean along the entire coast; found in bays and harbors particularly after storms. Breeds on islets in Del Norte and Humboldt Cos (2).	No	Absent (nesting and non-breeding)	Project Area is not within typical and suitable breeding range for species. All CNDDB occurrences in coastal northern California (Humboldt County).
Oceanodroma homochroa (nesting colony) Ashy storm petrel	BCC, BLMS /SSC/Group 2 (Ocean)/ WLBCC	Open sea. Nests in natural cavities and sea caves, mainly talus but also larger rock. Resident of offshore waters from Cape Mendocino to northern Baja California, Mexico. Breeds on offshore islands from Southeast Farallon Island to Los Coronados (2).	No	Absent (nesting and non-breeding)	Project Area is not within range of species (open seas). All CNDDB occurrences along Channel Islands.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Oceanodroma melania (nesting colony) Black storm petrel	BCC/SSC/Group 2 (Ocean) / WLBCC	Open sea from Monterey Bay south during April to October. Nests in burrows and rock cavities on Santa Barbara Island and Sutil Island (2).	No	Absent (nesting and non-breeding)	Project Area is not within range for species (open seas). All CNDDB occurrences along Channel Islands.
Leiothlypis luciae (nesting) Lucy's warbler	BLMS/SSC/Group 1	Desert wash and desert riparian habitats, especially dominanted by mesquite; saltcedar and other thickets. Breeds along Colorado River, common locally in a few other desert areas, rare near Salton Sea. Rare transient in other southern interior locations and rare fall transient along the coast, mainly in San Diego Co. (2).	No	Absent (nesting and non-breeding)	Project Area is outside of typical species range and lacks desert riparian, desert wash, salt cedar, thickets, and similar suitable habitat for species. Closest CNDDB occurrences are along the Colorado River, over 130 miles east of Project Area.
Oreortyx pictus eremophilus Mountain quail	None/ None/Group 2	Dense montane chaparral and brushy areas within coniferous forest, pinyon-juniper-yucca associations; uses shrubs, brush stands and trees on steep slopes for cover in most major montane habitats of the state (2).	No	Absent (nesting and non-breeding)	Project Area does not occur within their range which includes montane habitat or contain brushy stands of conifers, deciduous forests, woodlands, or chaparrals. No CNDDB information.
Pandion haliaetus (nesting) Osprey	None/WL/Group 1	Large waters (lakes, reservoirs, rivers) supporting fish; usually near forest habitats (primarily ponderosa pine through mixed conifer), but widely observed along the coast. Breeds from Cascade Ranges south to Lake Tahoe and along northwest coast. Uncommon breeder along southern Colorado River. Uncommon along coast of southern California (2).	No	Absent (nesting, non-breeding)	No suitable nesting or non-breeding habitat on site (open, clear waters). Although species would use rivers for foraging, dORF waters on site do not support fish species. Project Area not along coastal region or contain suitable open waters to provide food sources. Closest CNDDB occurrence approximately 30 miles southwest of Project Area along the Pacific coast.
Passerculus sandwichensis beldingi Belding's savannah sparrow	BCC/SE/Group 1, MSCP Narrow Endemic	Scattered southern coastal wetlands in southwestern California (2).	No	Absent (nesting and non-breeding)	Project Area is not within suitable habitat range. All CNDDB occurrences along Pacific coast.
Passerculus sandwichensis rostratus (wintering) Large-billed savannah sparrow	None/SSC/Group 2	Grassland, saline emergent wetlands from central coastal and southern California; Santa Cruz, Morro Bay, San Miguel Island, San Clemente Island, San Diego (2, 4).	No	Absent (nesting and non-breeding)	Project Area not within the main breeding habitat range of species which is coastal communities. No CNDDB information.
Pelecanus erythrorhynchos (nesting colony) American white pelican	BCC/SSC/Group 2 (winter)	Open water, coastal bays, large inland lakes. Nests at large lakes in Klamath Basin. Common migrant at Salton Sea, Colorado River and rare during winter at Salton Sea, Morro Bay, San Diego Bay (2).	No	Absent (nesting and non-breeding)	Project Area not within habitat range including open waters, costal bays, and/or inland lakes. Closest CNDDB occurrence near Modoc National Forest in Northern California.
Pelecanus occidentalis californicus (nesting colony and communal roosts) Brown pelican (California)	FPD, BLM, FSS/(SD), FP/Group 2	Open sea, large water bodies, coastal bays and harbors, estuarine, marine subtidal, and marine pelagic waters along coast and breeds on Channel Islands (2).	No	Absent (nesting and non-breeding)	Project Area not within habitat range including open sea, large bodies of water, pelagic waters, and similar habitats. Closest CNDDB over 30 miles southwest along Pacific coast. Additional occurrences in the region along Salton Sea.
Nannopterum auritum (nesting colony) Double-crested cormorant	None/WL/Group 2 (non-breeding)	Lakes, rivers, reservoirs, estuaries, ocean; nests in tall trees, rock ledges on cliffs, rugged slopes. Resident along coast and inland waters. Common August to May at Salton Sea and Colorado River reservoirs, also found south of San Luis Obispo Co. and Central Valley (2).	No	Absent (nesting and non-breeding)	Project Area not within habitat range including coastal and inland waters, suitable rivers, or similar habitats. Although this species may nest in tall trees, oak species on site would not be suitable for species. Closest CNDDB occurrence approximately 27 miles south of Project Area.
Piranga rubra (nesting) Summer tanager	None/SSC/Group 2	Nests in desert riparian woodland dominated by cottonwoods and willows; winter habitats include parks and residential areas. Found along lower Colorado River and locally in southern California deserts (2).	No	Absent (nesting); Very low (non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks desert riparian woodlands to provide cover and nesting habitat for species. Species very unlikely to winter within Project Area riparian habitats. Closest CNDDB occurrence approximately 27 miles northeast of Project Area.
Plegadis chihi (nesting colony) White-faced Ibis	None/WL/Group 1	Nests in marsh; winter foraging in shallow lacustrine waters, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields and estuaries. Uncommon summer resident in areas of southern California (esp. Salton Sea area), rare visitor to Central Valley (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area lacks suitable marshes, ponds, lakes, rivers, or similar habitat. Closest CNDDB record approximately 2 miles west of Project Area of a breeding colony in 1901. Additional occurrences over 19 miles northwest of Project Area.

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Polioptila californica californica Coastal California gnatcatcher	FT/SSC/Group 1 (for full species) / WLBCC (for full species)	Coastal sage scrub, coastal sage scrub-chaparral mix, coastal sage scrub-grassland ecotone, riparian in late summer. Found from eastern Orange and southwestern Riverside Cos. south through coastal foothills of San Diego Co. (2).	No	Very low (nesting and non-breeding)	No suitable breeding habitat on site. Project Area lacks sage scrub habitats used for breeding. Project site situated within a landscape of chaparral and scrub habitats. As such, closest CNDDB occurrence directly adjacent to and bordering the eastern edge of Project Area. Additional CNDDB occurrences occur throughout the immediate vicinity of Project Area. However, lack of suitable habitat and heavy human disturbance would preclude this species from utilizing the site.
Progne subis (nesting) Purple martin	None/SSC/Group 1	Nests in tall sycamores, pines, oak woodlands, coniferous forest; forages over riparian, forest and woodland. Found throughout the state in wooded, low-elevation habitats. Rare and local breeder in the south in mountain ranges and along coast (2).	No	Very low (nesting and non-breeding)	Project Area lacks suitable nesting habitat for species. This cavity nesting species typically nests within dead trees, cactus, on cliffs or building crevices (15) (absent within Project Area). This species is an uncommon to rare migrant in spring and fall; and absent in winter (2). Closest CNDDB occurrence approximately 18 miles southeast and over 40 miles northeast of Project Area.
Pyrocephalus rubinus (nesting) Vermillion flycatcher	None/SSC/Group 1 (for P.r.flammeus)	Nesters inhabit cottonwood, willow, mesquite, and other vegetation in desert riparian habitat adjacent to irrigated fields, irrigation ditches, pastures and other open, mesic areas in isolated patches. Found along Colorado River, especially near Blythe, Riverside Co. (2).	No	Absent (nesting); Very low (non-breeding)	Does not breed in the region.. Although Project Area may provide perching and insect foraging opportunities this potential is very low since the closest CNDDB occurrences approximately 60 miles northeast of Project Area.
Rallus obsoletus levipes Light-footed Ridgway's rail	FE/SE, FP/Group 1, MSCP Narrow Endemic/ WLBCC	Coastal saline emergent wetlands along southern California from Santa Barbara Co. to San Diego Co. (2).	No	Absent (nesting and non-breeding)	Project area is outside of the species range. Project Area lacks suitable wetlands and coastal environment for this species. Closest CNDDB record approximately 14 miles west of Project Area along the Pacific coast.
Riparia riparia (nesting) Bank swallow	BLMS/ST/Group 1	Riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with fine-textured or sandy soils, into which it digs nesting holes; most breeding occurs along banks of Sacramento and Feather Rivers (2).	No	Absent (nesting and non-breeding)	Project Area lacks suitable riparian habitats, lakes, banks, bluffs, cliffs or similar environments suitable for this species. Closest CNDDB occurrences approximately 20 miles northwest of Project Area along the Pacific ocean in Oceanside. Additional CNDDB occurrences only occur farther north of these records.
Rynchops niger (nesting colony) Black skimmer	BCC/SSC/Group 1, WLBCC	Roosting takes place on sandy beaches or gravel bars. Rarely alights on water. Visitor to coastal estuaries and river mouths. Summer resident at Salton Sea. Yearlong resident at San Diego Bay. Known infrequently from additional interior locations on Colorado River and Lakeview, Riverside Co. (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area lacks suitable sandy beaches, coastal estuaries, suitable rivers, or lake environments for this species to forage and nest. Closest CNDDB record approximately 62 miles east of Project Area along the Salton Sea.
Setophaga petechia brewsteri [Aestiva group] (nesting) Yellow warbler (California)	BCC/SSC/Group 2	Nests in lowland and foothill riparian woodlands; montane chaparral, open ponderosa pine, mixed conifer habitats up to 2500m; winters in a variety of habitats. Breeds from coast range in Del Norte Co., east to Modoc plateau, south to Santa Barbara and Ventura Cos., western slope of Sierra Nevada south to Kern Co.; also breeds in ranges in San Diego Co. (2).	No	Very low (nesting and non-breeding)	Project Area lacks suitable nesting and non-breeding riparian habitat for this species including wet, deciduous thickets typically dominated by willows, shrub wetlands, willow scrub near rivers or lakes, or similar habitat. Closest CNDDB occurrence approximately 16 miles northwest of Project Area. Additional occurrences scattered throughout the region along suitable water/riparian sources.
Sialia mexicana Western bluebird	None/None/Group 2	Open forests of deciduous, coniferous or mixed trees, savanna, edges of riparian woodland. Common throughout California excluding higher mountains and eastern deserts (2).	This species was heard calling and seen flying over the site during the 2022 survey.	Moderate (nesting) and present (non-breeding)	Suitable habitat on site may include oaks within dORF. Species may use oaks and orchard trees for perching during the non-breeding season and forage insects within ORC.
Sternula antillarum browni (nesting colony) California least tern	FE/SE, FP/Group 1/ WLBCC (full species)	Breeding colonies located in marine and estuarine shores in southern California, and in San Francisco Bay in abandoned salt ponds and estuarine shores. Feeds in nearby waters. Are migratory to California (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. HW on site has negligible biological function. Waters present within dORF are not suitable as feeding or resting site. Project Area lacks suitable marine and estuaries or bodies of water for this species. All CNDDB occurrences along Pacific coast or suitable wetland near coastal communities. Closest CNDDB record approximately 14 miles west of Project Area.

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Strix occidentalis occidentalis California spotted owl	BCC, BLMS, FSS/SSC/Group 1/ WLBCC	Dense, old-growth, multi-layered mixed conifer, redwood and Douglas-fir habitats in northern California; oak and oak-conifer habitats in southern California; 0-2,300m (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. No CNDDB information.
Synthliboramphus scrippsi (nesting colony) Scripp's murrelet	BLMS, BCC/ST/Group 2 (oceanic)	Offshore waters. Rare visitor to southern offshore waters in late summer and fall (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable offshore environments for this species. Closest CNDDB occurrences along the Channel Islands.
Thalasseus elegans (nesting colony) Elegant Tern	BCC/WL/Group 1, WLBCC	Coastal waters, estuaries, large bays and harbors, mudflats; rarely occur offshore and never found inland. Found along coastal California, most common in southern California, not found north of Marin Co. (2).	No	Absent (nesting and non-breeding)	No suitable nesting or non-breeding habitat on site. Project Area lacks suitable coastal waters, estuaries, bays, mudflats, or offshore environments for this species. No CNDDB information.
Toxostoma bendirei Bendire's thrasher	BCC, BLMS/SSC/Group 2 (non-breeding) / WLBCC	Flat areas of desert succulent shrub and Joshua tree habitats in Mojave desert area of San Bernardino and western Kern Cos. (2).	No	Absent (nesting and non-breeding)	Project Area is located outside of typical desert range of species. Closest CNDDB occurrence approximately 30 miles northeast of Project Area.
Toxostoma crissale Crissal thrasher	BLMS/SSC/Group 1	Dense thickets of shrubs or low trees in desert riparian and desert wash habitats. Also, dense sagebrush and other shrubs in washes within juniper and pinyon-juniper habitats up to 1, 800m. Common in Colorado River Valley; less common in eastern Mojave Desert, Imperial, Coachella and Borrego valleys (2).	No	Absent (nesting and non-breeding)	Project Area is located outside of typical desert range of species. Closest CNDDB occurrence approximately 60 miles northeast of Project Area.
Toxostoma lecontei lecontei Le Conte's thrasher	None/None/Group 2 (for subspecies T.l.lecontei), WLBCC	Open desert wash, desert scrub, alkali desert scrub, desert succulent shrub habitats, Joshua tree habitat with scattered shrubs. Uncommon to rare, local resident in southern California deserts from southern Mono Co. to the Mexican border and in San Joaquin Valley (2).	No	Absent (nesting and non-breeding)	Project Area is located outside of typical desert range of species. Closest CNDDB occurrence approximately 50 miles northeast of Project Area.
Tyto alba Barn owl	None/None/Group 2	Open habitats including grassland, chaparral, riparian, and other wetlands throughout the state, 0-1,680m (2).	No	Moderate (nesting and non-breeding)	While Project Area lacks grasslands, chaparral, and suitable riparian or wetland habitats. HW on site has negligible biological function. This species is fairly tolerant of human disturbance and may use the orchard areas for foraging. No CNDDB information.
Vireo bellii pusillus (nesting) Least Bell's vireo	FE/SE/Group 1, MSCP Narrow Endemic/ WLBCC (full species)	Willows and low, dense valley foothill riparian habitat and lower portions of canyons; along western edge of deserts in desert riparian habitat, 0-600m. Found in San Benito and Monterey Cos., and coastal southern California from Santa Barbara Co. south (2).	No	Very low (nesting); Very low (non-breeding)	No suitable nesting habitat on site. Project Area dORF lacks dense understory to provide suitable habitat for species. Perching and/or marginal foraging habitat on site includes dORF. Species has only a low potential to utilize the site during the non-breeding (migration) season. Closest CNDDB occurrence approximately 1 mile north and south of Project Area. Additional occurrences occur in the close vicinity of Project Area. However, the potential for this species to utilize the site is very low due to its obligate riparian nature.
Vireo vicinior (nesting) Gray vireo	BLMS, FSS/SSC/Group 1	Summer resident in arid pinyon-juniper, juniper, and chamise-redshank chaparral habitats in mountains of southern California, 600-2,000m (2).	No	Absent (nesting and non-breeding)	Project Area is not located in the typical elevational or habitat range of the species. Closest CNDDB occurrences occur approximately 90 miles north of Project Area. Additional occurrence farther north.
Mammals					
Antrozous pallidus Pallid bat	BLMS, FSS/SSC/Group 2/ WBWG:H	Grasslands, shrublands, woodlands, forests; most common in open dry habitats with rocky outcrops for roosting. Found throughout low elevations of California, except for high Sierra Nevada and northwestern corner of the state south to Mendocino Co. (2).	No	No roosting potential; Moderate foraging potential	Roosting habitat is not present. Species may forage on insects attracted to ORC and obtain water from dORF sources. Closest CNDDB occurrences approximately 2 miles west and 3.75 miles southeast of Project Area. Additional occurrences occur throughout region.
Bassariscus astutus Ringtail	None/FP/Group 2	Mixed forests and shrublands near rocky areas or riparian habitats. Forages near water and is seldom found more than 1 km from a water source. Is widely distributed throughout California (2).	No	Very low	Although species frequents riparian areas, dORF on site provides scant understory cover for this species to use as an important corridor or to provide cover for species. No CNDDB information.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Chaetodipus californicus femoralis Dulzura pocket mouse	None/SSC/Group 2	Occurs in a variety of habitats including coastal scrub, chaparral, and grasslands. Micro habitat includes grass-chaparral edges (6).	No	Very low	Suitable habitat on site includes dORF. Species has a low potential to burrow in soft soils on site or to forage on seeds from non-native grasses. Additionally, closest CNDDB occurrences approximately 1 mile north, 2 miles west, and 2 miles southeast of Project Area. However, potential to utilize site may be low due to lack of chaparral, scrub, or grassland habitats on site and high human presence.
Chaetodipus fallax fallax Northwestern San Diego pocket mouse	None/SSC (full species)/Group 2	Occurs in coastal scrub, chaparral, grasslands, sagebrush, and similar habitats in western San Diego County. Micro habitat includes sandy, herbaceous areas, usually in association with rocks or coarse gravel (6).	No	Very low	Project Area lacks abundant sandy herbaceous areas, rocks, or coarse gravel that would be utilized by this species. Closest CNDDB occurrences approximately 2 miles southeast of Project Area. Additional occurrences sparsely scattered approximately 6 miles or greater from Project Area.
Chaetodipus fallax pallidus Pallid San Diego pocket mouse	None/SSC (full species)/Group 2	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon-juniper, and annual grassland. Along southern margins of Mojave Desert, along northern slopes of San Bernardino Mts., western edge of Colorado Desert south to Baja California (6).	No	Absent	No suitable habitat on site. Project Area lacks desert vegetation, chaparral, sagebrush, grasslands, and other suitable habitats. Closest CNDDB occurrence approximately 29 miles east of Project Area within desert regions.
Choeronycteris mexicana Mexican long-tongued bat	None/SSC/Group 2/WBWG:M	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon-juniper woodland. Roosts in caves, mines, and buildings. Summer resident in San Diego Co. (2).	No	No roosting potential; Moderate foraging potential	Species may forage on insects attracted to ORC and obtain water from dORF sources. However, Project Area lacks desert habitats, woodlands, or montane riparian typically utilized by this species. Therefore, the potential is very low. Closest CNDDB occurrences approximately 9 miles south and 14 miles southwest of Project Area.
Corynorhinus townsendii Townsend's big-eared bat	BLMS, FSS/SSC/Group 2/ WBWG:H	Mesic habitats, gleans from brush or trees or feeds along habitat edges. Found in all habitats but subalpine and alpine throughout California (2).	No	No roosting potential; Moderate foraging potential	Species may forage on insects attracted to ORC and obtain water from dORF sources. Although suitable habitat on site may be present, species has a low potential to occur because closest CNDDB occurrences approximately 18 miles east of Project Area. Additional occurrences farther east and south of Project Area.
Dipodomys stephensi Stephens' kangaroo rat	FE/ST/Group 1	Open habitat, grassland, sparse coastal sage scrub, sandy loam and loamy soils with low clay content; gentle slopes (<30%) and sparse vegetative cover. Found around San Jacinto Valley (2).	No	Very low	Project Area lacks suitable grasslands, coastal scrub, or sagebrush. However, species known to occur in disturbed areas (2) which do occur on site. Given that the closest CNDDB occurrence is approximately 7 miles east of Project Area, the potential for this species to utilize any disturbed areas on site is very low. Soils in disturbed areas on site may also not be suitable for burrowing.
Euderma maculatum Spotted bat	BLMS/SSC/Group 2/ WBWG:H	Foothills, mountains, desert regions of southern California including arid deserts, grasslands, mixed conifer forests. Roosts in rock crevices, cliffs. Feeds over water and along washes (2).	No	Absent	No suitable habitats occur on site. Species roosts in rock crevices (occasionally found in buildings [2]) but occupies arid deserts, grasslands, and forests; these habitats do not occur on site. Additionally, closest CNDDB occurrences approximately 20 miles southwest and 62 miles northeast of Project Area.
Eumops perotis californicus Greater western mastiff bat	BLMS/SSC/Group 2/ WBWG:H	Occurs in many open, semi-arid to arid habitats including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, and more. Roosts in crevices in cliff faces, high buildings, trees, and tunnels (6).	No	No roosting potential; Moderate foraging potential	. Species may forage on insects attracted to ORC and obtain water from dORF sources. Closest CNDDB occurrences approximately 4 miles southeast of Project Area. Additional occurrences scattered throughout the region.
Lasiurus blossevillii Western red bat	None/SSC/Group 2	Prefers edges with trees for roosting and open areas for foraging. Roosts in woodlands and forests. Forages over grasslands, shrublands, woodlands, forests, and croplands. Found south of Shasta Co. to Mexican border, and west of the Sierra Nevada/Cascade crest. In winter, occupies coastal regions and lowlands south of San Francisco Bay (2).	No	Moderate	Suitable habitat on site may include palm trees. Species may forage on insects attracted to ORC and obtain water from dORF sources. Closest CNDDB occurrences approximately 4 miles southeast of Project Area. Additional occurrences sparsely scattered throughout the region.

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Lepus californicus bennettii San Diego black-tailed jackrabbit	None/None/Group 2	Arid habitats with open ground; grasslands, coastal sage scrub, agriculture, disturbed areas, rangelands in southern California (2, 4).	No	Low	Suitable habitat on site may include ORC, DH, and dORF (for water sources). Suitable habit would include the open spaces, disturbed habitat, and/or cover provided to this species. However, site lacks shrubs or moderately dense understory that would provide high quality cover. As such, potential for species to occur would be moderate to low. Additionally, closest CNDDB occurrences are 3 miles south and 6 miles west of Project Area.
Macrotus californicus California leafed-nosed bat	BLMS/SSC/Group 2/ WBWG:H	Desert riparian, desert wash, desert scrub, desert succulent shrub, alkali desert scrub, and palm oasis. Found from Riverside, Imperial, San Diego, and San Bernardino Cos. south to Mexican border; fairly common along parts of Colorado River, elevation approximately 600m (2).	No	Very low to absent.	No suitable habitat on site. Project Area lacks desert habitats associated with this species. Closest CNDDB occurrence is approximately 40 miles south of Project Area. As such, potential for any utilization on site would be very low to absent.
Myotis ciliolabrum Western small-footed myotis	BLMS/None/Group 2/ WBWG:M	Occurs in a wide variety of habitats, primarily in arid wooded and brushy uplands near water. In coastal California it occurs from Contra Costa Co. south to the Mexican border; occurs on in the Sierra Nevada and Great Basin and desert habitats from Modoc to Kern and San Bernardino Cos. Found from sea level to at least 2700m (2).	No	No roosting potential; Moderate foraging potential	Species may forage on insects attracted to ORC and obtain water from dORF sources. Closest CNDDB occurrences approximately 7 and 8 miles east of Project Area. Additional nearby occurrences are clustered closer to Santa Ysabel.
Myotis evotis Long-eared myotis	BLMS/None/Group 2/ WBWG:M	Roosts in buildings, crevices, under bark, and snags. Caves used as night roosts. Feeds along habitat edges, in open habitats, and over water. Occurs primarily along entire coast and in Sierra Nevada, Cascades, Great Basin, and 0-2,700 m (2).	No	No roosting potential; Moderate foraging potential	Species may forage on insects attracted to ORC and obtain water from dORF sources. Closest CNDDB occurrences approximately 4 and 8 miles east of Project Area. Additional nearby occurrences are clustered closer to Santa Ysabel.
Myotis thysanodes Fringed myotis	BLMS, FSS/None/Group 2/ WBWG:H	Pinyon-juniper, valley foothill hardwood, hardwood-conifer habitats. Roosts in caves, mines, buildings, or crevices. Forges over open habitats, early successional stages, streams, lakes, and ponds. Found throughout California except Central Valley and Colorado and Mojave Deserts (2).	No	No roosting potential; Moderate foraging potential	Typical suitable habitat (hardwoods, conifers, lakes, ponds) do not occur on site. Additionally, closest CNDDB occurrence approximately 35 miles southeast of Project Area. Additional occurrences farther north and over 80 miles from Project Area. As such, the potential for species to occur and utilize habitat on site would be very low to absent.
Myotis volans Long-legged myotis	None/None/Group 2/ WBWG:H	Occupies woodland and forest habitats over 1200m. Feeds over open water and over open habitats such as chaparral and coastal scrub, using denser woodlands and forests for cover and reproduction. Roosts in rock crevices, buildings, under tree bark, in snags, mines, caves. Found in coastal ranges, Cascade/Sierra Nevada ranges, Great Basin, and ranges in Mojave Desert (2).	No	Absent	Project Area is not within typical range of species habitat. Closest CNDDB occurrence approximately 30 miles southeast of Project Area.
Myotis yumanensis Yuma myotis	BLMS/None/Group 2/ WBWG:LM	Closely tied to open water which is used for foraging; open forests and woodlands are optimal habitat throughout California, 0-3,300m (2).	No	Low	Although species may utilize palm trees for roosting, forage on insects within ORC and obtain water sources from dORF; however, the potential for the species to utilize these habitats on site low. Project Area does not contain typical forested/woodland habitats preferred by species. However, given that closest CNDDB occurrence is approximately 4 miles from Project Area, the potential for this species to occur may be moderate. Additional occurrences occur throughout the vicinity.
Neotoma lepida intermedia San Diego desert woodrat	None/SSC/Group 2	Joshua tree, pinyon-juniper, mixed and chamise-redshank chaparral, sagebrush, and most desert habitats. Found south of San Luis Obispo Co. to San Diego Co. and San Bernardino and Riverside Cos., 0-2600m (2, 4).	No	Low	Project Area lacks sufficient understory cover to provide cover for this species. Project Area lacks abundant rocks, cactus, and scattered tree branches to provide building materials. In addition, Project Area does not contain common habitats where this species is found (chaparral, sagebrush, desert habitats). Closest CNDDB occurrence approximately 3 miles southwest of Project Area.

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Nyctinomops femorosaccus Pocketed free-tailed bat	None/SSC/Group 2/ WBWG:M	Rocky desert areas with high cliffs or rock outcrops. Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, palm oasis in Riverside, San Diego, Imperial Cos. (2).	No	Low	Although species may utilize palm trees for roosting, forage on insects within ORC, and obtain water from dORF sources; however, the potential for the species to utilize these habitats on site low. Project Area does not contain typical woodland, desert scrub, desert riparian, palm oasis or similar habitats preferred by species. However, given that closest CNDDB occurrence is approximately 2 miles west of Project Area, the potential for this species to occur may be moderate. Additional occurrences occur throughout the vicinity.
Nyctinomops macrotis Big free-tailed bat	None/SSC/Group 2/ WBWG:MH	Rugged, rocky canyons in Riverside, Los Angeles, and San Diego Cos., but scattered records across California to Oakland (2, 6).	No	Very low	This species is rare in California and records in San Diego Co. occurred in urbanized areas and species not thought to breed in California (2). However, given that closest CNDDB occurrence is approximately 2 miles west of Project Area, there is a very low potential for species to occur on site. Suitable habitat on site may occur in palm trees.
Odocoileus hemionus Mule deer	None/None/Group 2	Coastal sage scrub, chaparral, riparian, woodlands, forest; often browses in open areas adjacent to cover throughout California, except deserts and intensely farmed areas (2).	Tracks were observed on a dirt path within the avocado orchard on site during the 2022 survey.	Present	While the Project Area lacks sufficient typical forest, woodland, and brush habitats or adjacent open meadows, the species likely occasionally forages and/or obtains water within the orchard. No CNDDB information.
Onychomys torridus ramona Southern grasshopper mouse	None/SSC/Group 2	Alkali desert scrub and other desert scrub habitats, sparse coastal scrub, especially with friable soils for digging in Mojave Desert and southern Central Valley (2).	No	Absent	Project Area located outside of typical species range. Closest CNDDB occurrence approximately 27 miles east of Project Area.
Ovis canadensis nelsoni pop. 2 Peninsular bighorn sheep DPS	FE/ST, FP/Group 1	Alpine dwarf-shrub, low sage, sagebrush, bitterbrush, pinyon-juniper, palm oasis, desert riparian, desert succulent shrub, desert scrub, subalpine conifer, perennial grassland, montane chaparral, and montane riparian from San Jacinto and Santa Rosa ranges south to Mexico (2).	No	Absent	Project Area also located out of species typical range. Closest CNDDB occurrence approximately 31 miles east of Project Area.
Perognathus longimembris brevinasus Los Angeles pocket mouse	None/SSC/Group 2	Lower elevation grassland, alluvial sage scrub, and coastal sage scrub. Historically occurred in the coastal basins of southern California, from San Fernando and Burbank in the San Fernando Valley east to Cabazon, south through the San Jacinto and Temecula Valleys to Aguanga, Warner Pass, Vail, and Temecula. Current range does not include the San Fernando Valley (7).	No	Absent	Project Area not within typical habitat range of species. Closest CNDDB occurrence approximately 25 miles east of Project Area. Additional occurrences farther north of this record.
Perognathus longimembris internationalis Jacumba pocket mouse	None/SSC/Group 2	Desert riparian, desert scrub, desert wash, coastal scrub, and sagebrush in San Diego and Riverside Cos. (2, 6).	No	Absent	Project Area not within typical habitat range of species. Closest CNDDB occurrence approximately 28.5 miles east of Project Area.
Perognathus longimembris pacificus Pacific pocket mouse	FE/SSC/Group 1	Coastal dunes, river alluvium, coastal sage scrub with firm sandy soils; along immediate coast in San Diego, Orange, and Los Angeles Cos. (4, 6).	No	Absent	Project Area not within typical habitat range of species. All CNDDB occurrences are along the Pacific coast, approximately 14 miles west of Project Area.
Puma concolor Mountain lion	None/SC/Group 2	Coastal sage scrub, chaparral, riparian, woodlands, forest; rests in rocky areas, and on cliffs and ledges that provide cover. Most abundant in riparian areas and brushy stages of most habitats throughout California except deserts (2).	Tracks of a mountain lion were observed on a dirt path within the avocado orchard on site during the 2022 survey.	High potential to use the Project Area on occasion	While the Project Area lacks suitable breeding habitat, the orchard, especially in the southeastern area of the site, may provide cover for foraging/hunting or resting activities. Small rocky areas are incorporated within the orchard. While human presence within the Project Area is likely a deterrent to mountain lions' use of the site, the species likely hunts and/or obtains water within the orchard on occasion. No CNDDB information.

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Taxidea taxus American badger	None/SSC/Group 2	Dry, open treeless areas, grasslands, coastal sage scrub, especially with friable soils throughout California (2).	No	Low	No suitable habitat on site. Project Area lacks open grasslands, treeless areas, or scrub habitats for species. Additionally, Project Area experiences heavy human presence which may serve as another barrier to American badger presence in Project Area. No CNDDB information.
		Invertebrates			
Apodemia mormo peninsularis Mormon metalmark	None/None/Group 1	Meadows. Larval host plant Eriogonum wrightii ssp. membranaceum. Specimen from meadows in Laguna Mts., 1,676m (10)	No	Absent	Project Area does not contain larval host plant and is not located within meadows. No CNDDB information.
Ariolimax columbianus stramineus Palomar banana slug	None/None/Group 2	Humid coastal forests; Santa Cruz Island (9).	No	Absent	Project Area not within humid or coastal environments suitable for this species.
Branchinecta sandiegonensis San Diego fairy shrimp	FE/None/Group 1, MSCP Narrow Endemic	Small, shallow vernal pools, occasionally ditches and road ruts in coastal mesa system of southern California and Baja California (4).	No	Low	No suitable vernal pool habitat on site may consist of ditches or road ruts on site. However, potential for this would be low given that closest CNDDB occurrence is approximately 6.5 miles southeast of Project Area.
Brennania belkini Belkin's dune tanabid fly	None/None/Group 2	Coastal sand dunes of southern California. Only CNDDB records are from USGS Quad: Venice, Los Angeles Co. (6).	No	Absent	Project Area does not occur within coastal suitable habitats required by the species. All CNDDB occurrences along Pacific coast near Manhattan Beach and surrounding area.
Callophrys thornei Thorne's hairstreak butterfly	BLMS/None/Group 1, MSCP Narrow Endemic	Tecate cypress on chaparral-covered dry rocky slopes, Otay Mt. (4).	No	Absent	Project Area not within typical habitat range of species. Closest CNDDB occurrence approximately 25 miles south of Project Area. Project Area also lacks suitable habitat (chaparral, rocky slopes).
Cicindela gabbii Western tidal flat tiger beetle	None/None/Group 2	Estuaries and mudflats; generally on dark-colored mud; occasional on dry saline flats of estuaries or mouth of river, Orange and San Diego Cos. (6).	No	Absent	Project Area not within typical habitat range of species (along coastal region). Closest CNDDB occurrence approximately 25 miles south of Project Area.
Cicindela hirticollis gravida Hairy-necked tiger beetle	None/None/Group 2	Clean, dry, light-colored sand in upper zone of the beach dunes, close to non-brackish water along coastal California (6).	No	Absent	Project Area not within typical habitat range of species (along coastal region). Closest CNDDB occurrence approximately 17 miles southwest of Project Area.
Cicindela latesignata obliviosa Western beach tiger beetle	None/None/Group 2	Inhabited the Southern California coastline, from La Jolla north to the Orange Co. line. Occupied saline mudflats and moist sandy spots in estuaries of small streams in the lower zone. Has not been observed in 20 years (4).	No	Absent	Project Area not within typical habitat range of species (along coastal region). No CNDDB information.
Cicindela senilis frosti Senile tiger beetle	None/None/Group 2	Coastal salt marshes; fresh/brackish lagoons, open patches of Salicornia, dried salt pans, muddy alkali area. Records in Riverside, San Diego, Los Angeles, Ventura Cos. (4, 6).	No	Absent	Project Area not within typical habitat range of species (along coastal region). Closest CNDDB occurrence approximately 17 miles southwest of Project Area.
Cicindela trifasciata sigmoidea S-banded tiger beetle	None/None/Group 2	Has been identified along the fringe of a mudflat and low marsh habitat in San Diego Co. (10).	No	Absent	Project Area not within typical habitat range of species (along coastal region). No CNDDB information.
Coelus globosus Globose dune beetle	None/None/Group 1	Fore dunes, sand hummocks, back dunes along immediate coast. Larvae, adults spend time under vegetation or debris from Santa Cruz south to Ventura Cos. Possibly extirpated in San Diego and other coastal counties (4).	No	Absent	Project Area not within typical habitat range of species (along coastal region). Closest CNDDB occurrence approximately 19 miles southwest of Project Area along Pacific coast.
Danaus plexippus Monarch butterfly	FC, FSS (Population 1) /None/Group 2	Overwinters in eucalyptus groves from San Francisco south to northern Baja California (4).	No	Absent	No suitable habitat on site. No eucalyptus groves on site. Closest CNDDB occurrence approximately 14.5 miles southwest of Project Area along the Pacific coast.
Euphydryas editha quino Quino checkerspot butterfly	FE/SCE/Group 1, MSCP Narrow Endemic, XERCES:CI	Sparsely vegetated hilltops, ridgelines, occasionally rocky outcrops; host plant Plantago erecta and nectar plants must be present, San Diego and Riverside Cos. (4).	No	Absent	No suitable habitat or host plants on site. Closest CNDDB occurrence approximately 19.5 miles south of Project Area.

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Euphyes vestris harbisoni Harbison's dun skipper	None/None/Group 1, MSCP Narrow Endemic	Canyon bottoms, creeks, seeps beneath shade of oak trees in riparian habitats supporting host plant Carex spissa growing near Toxicodendron diversilobum. Found throughout western San Diego Co. to Santa Ana Mts. Of Orange Co., with largest population in Ramona-Escondido area (11).	No	Absent	No suitable habitat or host plant occurring on site. Although site contains dORF with water the site lacks host plants. No CNDDB information.
Helminthoglypta traskii coelata (Helminthoglypta coelata) Peninsular Range shoulderband snail (Mesa shoulderband snail)	None/ None/Group 2	Coastal San Diego County (6).	No	Absent	Project Area not within coastal range of species. Closest CNDDB approximately 24 miles southwest of Project Area along Pacific coast.
Linderiella occidentalis California fairy shrimp	None/None/Group 1	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan or in sandstone depressions. Water in the pools has very low alkalinity, conductivity and TDS. Central Valley, Santa Rosa Plateau (4).	No	Absent	Project Area not within typical habitat range of species in Central/Northern California. All CNDDB occurrences north of San Luis Obispo.
Lycaena hermes Hermes copper	FT, FSS/None/Group 1	Coastal sage scrub, southern mixed chaparral supporting at least 5% cover of host plant Rhamnus crocea. Adults visit Eriogonum fasciculatum and Helianthus gracilentus. On well-drained hillsides and canyon bottoms, coastal San Diego Co. south to Santo Tomas, Baja California (4).	No	Absent	Project Area lacks scrub or chaparral habitat with cost plants that would support this species. Closest CNDDB occurrence approximately 19 miles south of Project Area.
Megathymus yuccae (harbisoni) Yucca giant skipper	None/None/Group 2	Coastal dunes, open yucca flats, desert canyons, open woodland, grassland, and old fields. Record from eastern San Diego Co. near Scissors Crossing (4, 8).	No	Absent	Project Area also not located within eastern San Diego County. No CNDDB information.
Panoquina errans Wandering skipper	None/None/ Group 1, MSCP Narrow Endemic	Salt marsh from Los Angeles to Baja California, Mexico. Host plant Distichlis spicata in salt marshes or near beaches, mouths of rivers (4).	No	Absent	No suitable habitat on site. Project Area lacks salt marsh or coastal habitats and host plants. Closest CNDDB occurrence approximately 27 miles south of Project Area along the coast.
Papilio multicaudata Two-tailed swallowtail	None/None/Group 1	Semi-arid canyon land, mid-level mountains, canyon bottoms; groves, parks, roadsides (4).	No	Low	Although this species may utilize on site ORC or road sides larvae host species or nectar sources not present on site (e.g., Fraxinus, Ptelea, Prunusi [16]).
Plebejus saepiolus hilda Hilda greenish blue	None/None/Group 1	Grassy meadow, near small pond; oviposit on Trifolium wormskioldii. In San Bernardino Mts (8).	No	Absent	Project Area not within suitable mountain ranges and lack host plant. No CNDDB information.
Pseudocopaeodes eunus eunus Alkali skipper	None/None/Group 1	Desert seeps, alkali flats of Kern River, Kern Co. Host plant grass: Distichils spicata var. spicata (4).	No	Absent	Project Area not within typical habitat range of species and lack host plants. No CNDDB information.
Pyrgus ruralis lagunae Laguna Mountain skipper	FE/None/Group 1, XERCES:CI	Only in a few open meadows in yellow pine forest between 1,524 and 1,829 m in the vicinity of Mt. Laguna and Palomar Mt. Eggs laid on leaves of Horkelia clevelandi. Larvae feed on leaves and overwinter on the host plant (4).	No	Absent	Project Area not within suitable elevation or mountainous range of species. Closest CNDDB occurrence approximately 18 miles northeast of Project Area.
Streptocephalus woottoni Riverside fairy shrimp	FE/None/Group 1, MSCP Narrow Endemic	Deep, long-lived vernal pools, vernal pool-like seasonal ponds, stock ponds; warm water pools that have low to moderate dissolved solids; in patches of grassland or agriculture interspersed in coastal sage scrub vegetation in southern California (4).	No	Absent	There is no suitable habitat within the Project Area. Additionally, closest CNDDB occurrence approximately 16.5 miles west of Project Area.
Trigonoscuta blaisdelli Blaisdell trigonoscuta weevil	None/None/Group 2	Trigonoscuta sp.: Coastal, desert, or inland sand dunes; wide variety of plant types used; the larvae feed on the roots and the adults on the leaves (12).	No	Absent	No suitable habitat for species on site. Project Area lacks sand dunes, coastal habitats, or deserts. Only 1 CNDDB occurrence in Kings County (Northern California).
Tryonia imitator Mimic tryonia, California brackishwater snail	None/None/Group 2	Coastal lagoons, herbaceous wetlands, brackish salt marshes; distributed among semi-continuous estuarine habitats along coast (4).	No	Absent	Project Area not located along coastal communities or contain suitable wetland habitat for species. Closest CNDDB occurrence approximately 15 miles west of Project Area.
		Fish			
Oncorhynchus mykiss irideus Southern steelhead - southern California DPS	FE/SCE/Group 1/ AFS:EN	Oncorhynchus mykiss ssp. irideus: Santa Maria River south to southern extent of range (San Mateo Creek in San Diego Co.); Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions. Ocean, rivers, creeks, large inland lakes, juveniles spend time in ocean before returning to natal stream to spawn; prefer summer temperatures 10-15C. Migration requires deep (3m) pools with cover along river course (4).	No	Absent	No suitable habitat on site. HW on site has negligible biological function and waters within dORF not suitable to support fish species. Portions of the drainage within the large polygon of dORF have a concrete bottom. Closest CNDDB occurrence approximately 35.5 miles north of Project Area. Additional occurrences farther north.

Scientific Name / Common Name	Status (Federal/ State/ County/Other)[1]	Habitat Preferences / Requirements	Verified On Site (Direct/Indirect Evidence)	Potential To Occur On Site	Factual Basis for Determination
Gila orcuttii Arroyo chub	FSS/SSC/Group 1/ AFS:VU	Permanent, small to moderate sized, moderate to high gradient streams with flow; headwaters, creeks, small to medium rivers, intermittent streams. Prefer slow moving sections with sand or mud substrate. Found in southern California watersheds (4).	No	Absent	No suitable habitat on site. HW on site has negligible biological function and waters within dORF not suitable to support fish species Portions of the drainage within the large polygon of dORF have a concrete bottom. Closest CNDDB occurrence approximately 8 miles northeast of Project Area. Additional occurrences farther east and north.
Cyprinodon macularius Desert pupfish	FE/SE/Group 2, AFS:EN	Desert springs, outflow marshes, river-edge marshes, backwaters, saline pools, streams, water less than 1m depth. Tolerates low oxygen levels, high temperatures, high salinity; can live in salinities from fresh water to 68 ppt., can withstand temperatures from 9-45 C and DO levels down to 0.1 ppm. Found from San Felipe Creek, San Sebastian Marsh, Salt Creek, Salton Sea (4).	No	Absent	No suitable habitat on site. Project Area outside of species typical range and does not contain desert springs or similar suitable habitats. Closest CNDDB occurrence approximately 36 miles east of Project Area.
Gasterosteus aculeatus williamsoni Unarmored threespine stickleback	FE/SE, FP/Group 2 / AFS:EN	Clear, cool, slow-flowing streams with sand or mud substrate, weedy pools, backwaters, among emergent vegetation at stream edge, in abundant aquatic vegetation in Santa Clara River drainage (4).	No	Absent	No suitable habitat on site. Project Area outside of species typical range and does not contain desert springs or similar suitable habitats. Closest CNDDB occurrence approximately 31 miles east of Project Area.
Eucyclogobius newberryi Tidewater goby	FE/None/Group 1, MSCP Narrow Endemic/ AFS:EN	Coastal lagoons, upper ends of lagoons created by small coastal streams, fresh to brackish water in lower sections of coastal streams; occurs in water 25-100cm deep and prefers mud substrates and areas of high dissolved oxygen. Found with sparse distribution along coast of California south of Del Norte Co. to San Diego Co. (4).	No	Absent	No suitable habitat on site. Project Area outside of species typical range and does not contain desert springs or similar suitable habitats. Closest CNDDB occurrence approximately 17 miles northwest of Project Area. Additional occurrences north of this record.

[1] Status Designations:

Federal Designations:

BCC	Fish and Wildlife Service: Birds of Conservation Concern
FC	Candidate for federal listing as threatened or endangered
(FD)	Federally-delisted; monitored for five years
FE	Federally-listed Endangered
FT	Federally-listed as Threatened
MNBMC	Fish and Wildlife Service Migratory Nongame Birds of Management Concern
USBC	United States Bird Conservation Watch List
FSS	United States Forest Service Sensitive
BLMS	Bureau of Land Management Sensitive Species
FPT	Federally Proposed Threatened

State Designations:

SSC	California Special Concern Species
FP	California Department of Fish and Game Fully Protected Species
WL	California Department of Fish and Game Watch List Species
SE	State-listed as Endangered
ST	State-listed as Threatened
SC	State Candidate for Endangered
(SD)	State Delisted
CDF-S	California Department of Forestry and Fire Protection – Sensitive

County Designations:

MSCP	MSCP covered species

Other Designations:

WLBCC	American Bird Conservancy - U.S. WatchList of Birds of Conservation Concern
WBWG:H	Western Bat Working Group: High PriorityWBWG:LM; Western Bat Working Group: Low-Medium Priority
WBWG:M	Western Bat Working Group: Medium Priority
WBWG:MH	Western Bat Working Group: Medium-High Priority
AFS:EN	American Fisheries Society: Endangered
AFS:TH	American Fisheries Society: Threatened
AFS:VU	American Fisheries Society: Vulnerable
XERCES:CI	Xerces Society – Critically Endangered

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