



**GENERAL BIOLOGICAL ASSESSMENT  
FOR  
ASSESSOR'S PARCEL NUMBERS  
APNs 1133-201-04, 1133-221-02, 1133-221-06, & 1133-221-07**

**SAN BERNARDINO COUNTY  
CALIFORNIA**

**Prepared for:**

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**SEPTEMBER 2023 (updated 02/19/25)**

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## **1.0 Introduction**

Hernandez Environmental Services (HES) was contracted by Mr. Nasser Mustafa to prepare a General Biological Assessment (GBA) for an approximately 15.89-acre project site in an unincorporated part of San Bernardino County, California. The project site consists of Assessor's Parcel Numbers (APNs) 1133-201-04, 1133-221-02, 1133-221-06, 1133-221-07.

### **1.1 Project Site Location**

The project site is located north of Interstate 210, south of Bohnert Avenue, and northwest and southwest of intersection Maple Avenue and Vineyard Avenue. The site is located within an unincorporated area of San Bernardino County, California. Specifically, the project site is located within section 28, township 1 north, and range 5 west within the *Devore* United States Geological Survey (USGS) 7.5' topographic quadrangle. The center point latitude and longitude for the project site are 34° 08' 28.0240" North and 117° 24' 23.2803" West (Figures 1 and 2).

### **1.2 Project Description**

The proposed project consists of the construction of an approximately 306,432 square foot (sf) warehouse with an approximately 5,000 sf office. The total building area would be approximately 311,432 sf. The proposed project also includes trailer and auto parking, landscaping, and a fire turnaround along the western border on Vineyard Avenue. Construction of the fire turnaround would include offsite impacts to Vineyard Avenue.

## **2.0 Methodology**

### **2.1 Literature Review**

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project site and surrounding areas. A five-mile radius was used to identify sensitive species with the California Natural Diversity Data Base (CNDDB), the U.S. Fish and Wildlife Service (USFWS) Endangered Species Lists, and the California Native Plant Society (CNPS) rare plant lists to obtain species information for the project area. The CNDDB and USFWS critical habitat databases were utilized, together with Geographic Information System (GIS) software, to locate the previously recorded locations of sensitive plant and wildlife occurrences and designated critical habitats and determine the distance from the project site.

### **2.2 Field Survey**

On August 28, 2023, HES conducted a field survey of the project site. The ambient temperature at 11:42 A.M. was 96-98 degrees Fahrenheit, sunny, with winds ranging from zero to seven miles per hour from the northeast. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding land uses, assess

the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess the presence of constituent elements for critical habitat, if present.

Linear transects spaced approximately 50 to 100 feet apart were walked across the project site for 100 percent coverage. All species observed were recorded. Global Positioning System (GPS) waypoints were taken to delineate specific habitat types, species locations, state or federal waters, and any other information that would be useful for the assessment of the project site. A comprehensive list of all plant and wildlife species that were detected during the field survey within the project site is included in Appendix A. Sensitive plant and wildlife species with the potential to occur within the project area are listed in Appendix B. Representative site photographs were taken and are included within Appendix C.

### **3.0 Existing Conditions and Result**

#### **3.1 Environmental Setting**

The project site consists of mostly vacant land. There are existing residential properties located on the southeast corner of the site. The site is bordered by residential development to the north and east, vacant ruderal land to the south, and commercial and industrial developments to the west. North Maple Ave runs along the eastern border of the site. The site is relatively flat with onsite elevations ranging from 1,513 feet above mean sea-level (AMSL) to 1,540 feet AMSL.

#### **3.2 Soils**

According to the USDA Web Soil Survey, soils at the project site are classified as Tujunga gravelly loamy sand (TvC), 0 to 9 percent slopes (Appendix D).

#### **3.3 Plant and Habitat Communities**

The project site supports two habitat types, developed and ruderal habitat communities (Figure 4). Below is a description of each habitat:

##### **Developed**

The project site contains approximately 4.30 acres of developed habitat. This habitat includes an existing single-story residential home with associated storage structures, landscaping, and graded areas. The vegetation present within this habitat consists of ornamental species such as Brazilian pepper tree (*Schinus terebinthifolius*), pine trees (*Pinus* sp.), osage orange (*Maclura pomifera*), blue gum (*Eucalyptus globulus*), Great bougainvillea (*Bougainvillea spectabilis*), Mexican fan palm (*Washingtonia robusta*), juniper (*Juniperus* sp.), cedar (*Calocedrus* sp.), and lantana (*Lantana camara*).

##### **Ruderal**

The project site contains approximately 11.59 acres of ruderal habitat. Ruderal habitat is found in heavily disturbed areas. This habitat type is dominated by non-native plant species with very few

native species. The ruderal habitat on site is dominated by shortpod mustard (*Hirschfeldia incana*) and ripgut brome (*Bromus diandrus*). Other plant species observed within this habitat type include wild oats (*Avena fatua*), deerweed (*Acmispon glaber*), California buckwheat (*Eriogonum fasciculatum*), and red stemmed filaree (*Erodium botrys*).

### **3.4 Wildlife**

General wildlife species documented on the project site or within the vicinity of the site include the mourning dove (*Zenaida macroura*).

### **3.5 Regional Connectivity/Wildlife Movement**

Wildlife movement corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species present. Wildlife corridors represent areas where wildlife movement is concentrated due to natural or anthropogenic constraints. Local corridors provide access to resources such as food, water, and shelter. Animals use these corridors, which are often hillsides or riparian areas, to move between different habitats. Regional corridors provide these functions and link two or more large habitat areas. They provide avenues for wildlife dispersal, migration, and contact between otherwise distinct populations.

The project site is not located within a designated wildlife corridor or linkage. The project site does not contain the topography or habitats typically used as wildlife corridors. The site is bordered by urban development and disturbed areas. The project site does not serve a function in local wildlife movement.

### **3.6 Sensitive Biological Resources**

According to the CNDDB, a total of 63 sensitive species of plants, 7 sensitive habitats, and 62 sensitive species of animals have the potential to occur on or within the vicinity of the project area. These include those species listed or candidates for listing by the USFWS, California Department of Fish and Wildlife (CDFW) and California Native Plant Society (CNPS). All habitats with the potential to be used by sensitive species were evaluated during the site visit and a determination has been made for the presence or probability of presence within this report. No sensitive habitats were found on site. This section will address those species listed as Candidate, Rare, Threatened, or Endangered under the state and federal endangered species laws. Sensitive species which have a potential to occur will also be discussed in this section. Other special status species are addressed within Appendix B.

#### **3.6.1 Sensitive Plant Resources**

A total of 14 plant species are listed as state and/or federal Threatened, Endangered, or Candidate species; are 1B.1 listed plants on the CNPS Rare Plant Inventory. The survey was conducted

during the appropriate blooming period for the 14 listed sensitive plant species. No sensitive plant species have been found to have potential to exist on the project site. Below are descriptions of these species:

*Marsh sandwort*

Marsh sandwort (*Arenaria paludicola*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in freshwater marsh, wetland, and marsh and swamp habitats. No habitat for this species is present on the project site. **This species is not present.**

*Horn's milk-vetch*

Horn's milk-vetch is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitats include alkali playa meadows, seeps, and wetlands. No habitat for this species is present on the project site. **This species is not present.**

*Nevin's barberry*

Nevin's barberry (*Berberis nevinii*) is a federally and state Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found on steep, north facing slopes or in low grade sandy washes. Its habitat includes chaparral, cismontane woodland, coastal scrub, and riparian scrub. No habitat for this species is present on the project site. **This species is not present.**

*Thread-leaved brodiaea*

The thread-leaved brodiaea (*Brodiaea filifolia*) is a federally Threatened, state Endangered and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in chaparral, cismontane woodlands, coastal sage scrub, valley and foothill grasslands, vernal pools, and wetland. No habitat for this species is present on the project site. **This species is not present.**

*Smooth tarplant*

Smooth tarplant (*Centromadia pungens ssp. laevis*) is ranked 1B.1 in the CNPS Rare Plant Inventory. The species occurs in habitats that include alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. No habitat for this species is present on the project site. **This species is not present.**

*Salt marsh bird's-beak*

Salt marsh bird's beak (*Chloropyron maritimum ssp. maritimum*) is a federally and state listed Endangered Species and is ranked 1B.2 in the CNPS Rare Plant Inventory. This species is limited to the higher zones of salt marsh habitat at elevations of less than ten meters. Its habitat includes coastal dunes, marsh and swamp, salt marsh, and wetland. No habitat for this species is present on the project site. **This species is not present.**

*Parry's spineflower*

Parry's spineflower (*Chorizanthe parryi* var. *parryi*) is ranked 1B.1 in the CNPS Rare Plant Inventory. The species occurs in dry, sandy soils on dry slopes and flats, sometimes at the interface of two vegetations types, such as chaparral and oak woodland. Its habitat includes coastal scrub, chaparral, cismontane woodland, and valley and foothill grassland. No habitat for this species is present on the project site. **This species is not present.**

*Mojave tarplant*

Mojave tarplant (*Deinandra mohavensis*) is a state listed Endangered Species and is ranked 1B.3 in the CNPS Rare Plant Inventory. This species is typically found in low sand bars in riverbeds and most commonly in riparian or ephemeral grassy areas. Its habitat includes chaparral, coastal scrub, and riparian scrub. No habitat for this species is present on the project site. **This species is not present.**

*Slender-horned spineflower*

Slender - horned spineflower (*Dodecahema leptoceras*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). No habitat for this species exists on the project site. **This species is not present.**

*Santa Ana River woollystar*

Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*) is a federally and state listed Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found in sandy soils on river floodplains or terraced fluvial deposits. Its habitat includes chaparral and coastal scrub. No habitat for this species is present on the project site. **This species is not present.**

*Mesa horkelia*

Mesa horkelia (*Horkelia cuneate* var. *puberula*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found in sandy or gravelly sites. Its habitat includes chaparral, cismontane woodland, and coastal scrub. No habitat for this species is present on the project site. **This species is not present.**

*Jokerst's monardella*

Jokerst's monardella (*Monardella australis* ssp. *Jokerstii*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found on steep scree and talus slopes between breccia. As well as, secondary alluvial along drainages and washes. Its habitat includes chaparral and lower montane coniferous forest. No habitat for this species is present on the project site. **This species is not present.**



*Gambel's water cress*

Gambel's water cress (*Nasturtium gambelii*) is federally listed Endangered Species, a state listed Threatened Species, and is ranked 1B.1 in the CNPS Rare Plant Inventory. It is found in freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, and wetland. No habitat for this species is present on the project site. **This species is not present.**

*Brand's star phacelia*

Brand's star phacelia (*Phacelia stellaris*) is ranked 1B.1 in the CNPS Rare Plant Inventory. This species is commonly located in open areas. Its habitat includes coastal scrub and coastal dunes. No habitat for this species is present on the project site. **This species is not present.**

### 3.6.2 Sensitive Animal Resources

A total of 12 animal species are listed as state and/or federal Threatened, Endangered, Candidate will be reviewed in this section. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within a 5-mile radius of the project site were reviewed and a complete list of those species are discussed within Appendix B. Below are descriptions of these species:

*Tricolored blackbird*

Tricolored blackbird (*Agelaius tricolor*) is state listed as Candidate Endangered and listed by the CDFW as a Species of Special Concern. The species occupies freshwater marshes with canopies of willows and other riparian trees. This species requires open accessible water and suitable foraging space. There is no habitat for this species on the project site. **The species is not present.**

*Arroyo toad*

Arroyo Toad (*Anaxyrus californicus*) is a federally listed Endangered Species and a CDFW Species of Special Concern. The most favorable breeding habitat for this species consists of slow-moving shallow pools, nearby sandbars, and adjacent stream terraces. Its habitat includes desert wash, riparian scrub, riparian woodland, south coast flowing waters, and south coast standing waters. There is no habitat for this species on the project site. **This species is not present.**

*Burrowing owl*

Burrowing owl (*Athene cunicularia*) is state listed as a Candidate Endangered Species. This species is a subterranean nester, dependent upon burrowing mammals such as the California ground squirrel. It inhabits open, dry annual or perennial grasslands and scrublands characterized by low-growing vegetation. No burrowing owl or evidence of burrowing owl such as feather,

pellets, or white wash were observed during the survey. No suitable burrows were found on site during the survey. **This species is not present.**

*Crotch bumble bee*

Crotch bumble bee (*Bombus crotchii*) is federally stated as a Candidate Endangered and listed by the state as Endangered. This species is typically found in a hot and dry environment along food plant genera such as: *Antirrhinum*, *Phacelia*, *Clarkia*, *Dendromecon*, *Eschscholzia*, and *Erigonum*. Its habits include grasslands and shrublands. The food plant genera for this species is not present on site. **This species is not present.**

*Swainson's hawk*

Swainson's hawk (*Buteo swainsoni*) is a state listed Threatened Species. This species favors open grasslands for foraging but also occurs in agricultural settings. It relies on scattered stands of trees near agricultural fields and grasslands for nesting sites. Its habitats include great basin grassland, riparian forest, riparian woodland, and valley and foothill grassland. The project site does not contain suitable habitat for this species. **This species is not present.**

*Southern rubber boa*

Southern-rubber boa (*Charina umbratica*) is a state listed Threatened Species. Its habitat includes meadow and seep, riparian forest, riparian woodland, upper montane coniferous forest, and wetland. This species is typically found near streams or wet meadows, and requires loose, moist soil for burrowing. It seeks cover in rotting logs, rock outcrops, and under surface litter. The project site does not contain suitable habitat for this species. **This species is not present.**

*Western yellow-billed cuckoo*

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is federally listed Threatened and state listed Endangered Species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape. It is found in riparian forest habitat. The project site does not contain suitable habitat for this species. **This species is not present.**

*San Bernardino kangaroo rat*

San Bernardino kangaroo rat (*Dipodomys merriami parvus*) is a federally listed Endangered species and a CDFW Species of Special Concern. It is found in coastal scrub habitat. This species is found in alluvial scrub vegetation on sandy loam substrates, characteristic of alluvial fans and flood plains. It needs early to intermediate seral stages. The project site does not contain suitable habitat for this species. **This species is not present.**

*Stephen's kangaroo rat*

Stephens' kangaroo rat (*Dipodomys stephensi*) is a federal and state listed Threatened species. This species is found in coastal sage scrub with sparse vegetation cover, and in valley and foothill grasslands. This species prefers buckwheat, chamise, brome grass, and filaree and will burrow into firm soil. The project site does not contain suitable habitat for this species. **This species is not present.**

*Southwestern willow flycatcher*

Southwestern willow flycatcher (*Empidonax traillii extimus*) is on both the federal and state Endangered Species list. It is commonly found in riparian woodland habitats in southern California. The project site does not contain suitable habitat for this species. **This species is not present.**

*Quino checkerspot butterfly*

Quino checkerspot butterfly (*Euphydryas editha quino*) is a federally listed Endangered Species. It is found in chaparral and coastal sage scrub. This species requires high densities of food plants, including *Plantago erecta*, *P. insularis*, and *Orthocarpus purpureus*. The project site does not contain suitable habitat for this species. **This species is not present.**

*Bald eagle*

Bald eagle (*Haliaeetus leucocephalus*) is a state listed Endangered and CDFW Fully Protected Species. This species is found in lower montane coniferous forest and old-growth. They nest in large old-growth or trees with open branches, especially ponderosa pine. The project site does not contain suitable habitat for this species. **This species is not present.**

*California black rail*

California black rail (*Laterallus jamaicensis coturniculus*) is a state listed Threatened Species and a CDFW Fully Protected Species. It inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays. This species needs water depths of about one inch that do not fluctuate throughout the year and dense vegetation for nesting habitat. Its habitat includes brackish marsh, freshwater marsh, marsh and swamp, salt marsh, and wetland. The project site does not have suitable habitat for this species. **This species is not present.**

*Steelhead-southern California DPS*

Steelhead-southern California DPS (*Oncorhynchus mykiss irideus* pop. 10) is a federally listed Endangered Species and listed as a Candidate Endangered in the state. This species is likely to have greater physiological tolerances to warmer water and more variable conditions. Its habitats include aquatic and south coast flowing waters. The project site does not have suitable habitat for this species. **This species is not present.**

*Coastal California gnatcatcher*

Coastal California gnatcatcher (*Poliioptila californica californica*) is a federally listed Threatened Species and CDFW Species of Special Concern. This species is found in coastal bluff scrub and coastal scrub habitat. This species is typically found in low, coastal sage scrub in arid washes, on mesas and slopes. The project site does not contain suitable habitat for this species. **This species is not present.**

*California red-legged frog*

California red-legged frog (*Rana draytonii*) is a federally listed Threatened Species and a CDFW Species of Special Concern. Its habitat includes aquatic, artificial flowing waters, artificial standing waters, freshwater marsh, marsh and swamp, riparian forest, riparian scrub, riparian woodland, Sacramento and San Joaquin flowing and standing waters, and south coast. It requires 11 to 20 weeks for larval development and must have access to estivation habitat. It is most commonly found in lowlands and foothills, in or near permanent sources of deep water, with dense, shrubby, or emergent riparian vegetation. The project site does not contain suitable habitat for this species. **This species is not present.**

*Southern mountain yellow-legged frog*

Southern mountain yellow-legged frog (*Rana muscosa*) is a federal and state listed Endangered Species. It is found in aquatic habitat. This species is always encountered within a few feet of water. Tadpoles may require two to four years to complete their aquatic development. The project site does not contain suitable habitat for this species. **This species is not present.**

*Delhi Sands flower-loving fly*

Delhi Sands flower-loving fly (*Rhaphiomidas terminates abdominalis*) is a federally listed Endangered Species. It requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. It is found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside Counties. This species is found in interior dune habitat. The project site does not have suitable habitat for this species. **This species is not present.**

*Mohave tui chub*

The Mohave tui chub (*Siphateles bicolor mohavensis*) is a federal and state listed Endangered Species. It is found in aquatic, and artificial standing and flowing waters. This species is endemic to the Mojave River basin, adapted to alkaline mineralized water. It needs deep pools, ponds, or slough-like areas and vegetation for spawning. There is no habitat for this species on the project site. **This species is not present.**

*Least Bell's vireo*

Least Bell's vireo (*Vireo bellii pusillus*) is a federal and state listed Endangered Species. This species is found in riparian forest, riparian scrub, and riparian woodland. Nesting habitat of this

species is restricted to willow and/or mule fat dominated riparian scrub along permanent or nearly permanent streams. No suitable habitat for this species is present on the project site. **This species is not present.**

### **3.7 Critical Habitat**

The project site is not located within any designated federal critical habitat for any threatened and endangered species.

### **3.8 Nesting Birds**

Migratory non-game native bird species are protected under the federal Migratory Bird Treaty Act. Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. The project site contains shrubs and trees that can be utilized by nesting birds and raptors during the nesting bird season of February 1 through September 15.

### **3.9 Jurisdictional Waters**

The project site does not contain any drainage, riparian, or riverine features. No signs of ephemeral features were found on site. There are no CDFW, United States Army Corps of Engineers (USACE), or Regional Water Quality Control Board (RWQCB) jurisdictional waters within the project site boundaries. According to the National Wetlands Inventory Output, there is no evidence of any wetland habitat (Figure 6).

## **4.0 Project Impacts**

### **4.1 Impacts to Habitats**

The project proposes the development of the approximately 15.89-acre project site consisting of 4.30 acres of developed habitat and 11.59 acres of ruderal habitat. In addition, the proposed project would impact approximately 0.02 acres of developed habitat offsite for a fire turnaround along the western border of the site on Vineyard Avenue (Figure 5).

### **4.2 Impacts to Sensitive Species**

No sensitive species were found to have the potential to occur on site. Therefore, the proposed project is not expected to impact any sensitive species.

### **4.3 Impacts to Nesting Birds**

Potential impacts to nesting birds may occur if ground disturbing activities or vegetation removal occur during the bird nesting season of February 1 through September 15. Implementation of the measures identified in the Recommendations section of this report will ensure that potential impacts to nesting birds are less than significant.

#### **4.4 Impacts to Critical Habitat**

The proposed project is not located within or adjacent to any federal critical habitat. No impacts to designated federal critical habitat are expected.

#### **4.5 Impacts on Wildlife Movement Corridors**

No wildlife movement corridors were found to be present on the project site. No impacts are expected.

#### **4.6 Conflict with Local Policies or Ordinances Protecting Biological Resources**

Should the proposed project result in the removal of trees, it will be required to comply with the San Bernardino County Plant Protection and Management Ordinances. The project site is located within the San Bernardino County Burrowing Owl Overlay Zone. Implementation of the measures identified in the Recommendations section of this report will ensure that any potential impacts to burrowing owl are less than significant.

#### **4.7 Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan**

The project site is not located in an area plan. Therefore, it would not be anticipated to conflict with the provisions of an adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other approved local, regional, or state habitat conservation plan.

#### **4.8 State and Federal Drainages**

The project site does not contain any state or federal drainages, therefore no impacts to any jurisdictional drainages are expected.

### **5.0 Recommendations**

Based upon the findings of this report, it is recommended that the following studies or surveys be performed as part of the project.

#### Nesting Birds

- It is recommended that vegetation removal be conducted outside of the nesting season for migratory birds to avoid direct impacts.
- If vegetation removal occurs during the migratory bird nesting season, between February 1 and September 15, pre-construction nesting bird surveys shall be performed within three days prior to vegetation removal.

- If active nests are found during nesting bird surveys, they shall be flagged. A 250-foot buffer shall be fenced around songbird nests and a 500-foot buffer shall be fenced around raptor nests.

#### Burrowing owl

- Due to the project site being located within the San Bernardino County Burrowing Owl Overlay Zone, a Take Avoidance Survey (Pre-construction Survey) shall be performed no less than 14 days prior to initiating ground disturbance activities. The surveys shall be performed by a qualified biologist and shall follow The Staff Report on Burrowing Owl Mitigation Appendix D protocol to ensure the protection of BUOW. Conduct surveys with transects spaced 7 meters to 20 meters apart, recording any evidence of burrowing
- If BUOW are found to have colonized the project site prior to the initiation of construction, the project proponent will immediately inform the Wildlife Agencies and will need to prepare a Burrowing Owl Protection and Relocation Plan for approval by the Wildlife Agencies prior to initiating ground disturbance.

## 6.0 Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date 10/10/2023

Signed \_\_\_\_\_

PROJECT MANAGER

Fieldwork Performed By:

Carissa Gomez  
\_\_\_\_\_

Associate Biologist

Sarah Vasquez  
\_\_\_\_\_

Associate Biologist



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## **FIGURE 1**

### Figure 1

Location Map  
Maple Ave & Vineyard Ave  
Rialto, San Bernardino County , CA

### Legend

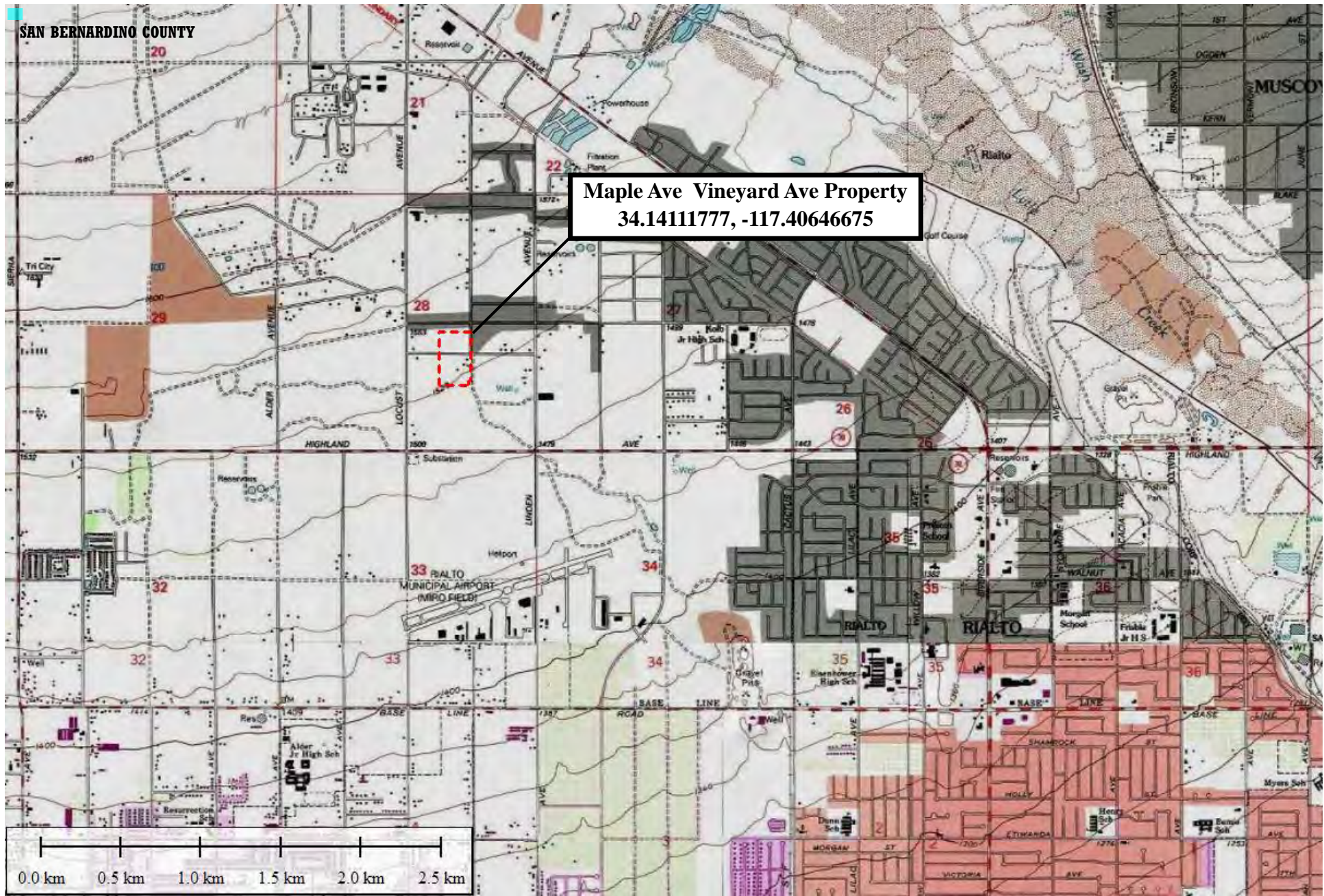
 Property Line (15.89 acres)



Hernandez  
Environmental  
Services

## FIGURE 2





**Figure 2**  
Vicinity Map  
Maple Ave & Vineyard Ave  
Rialto, San Bernardino County, CA

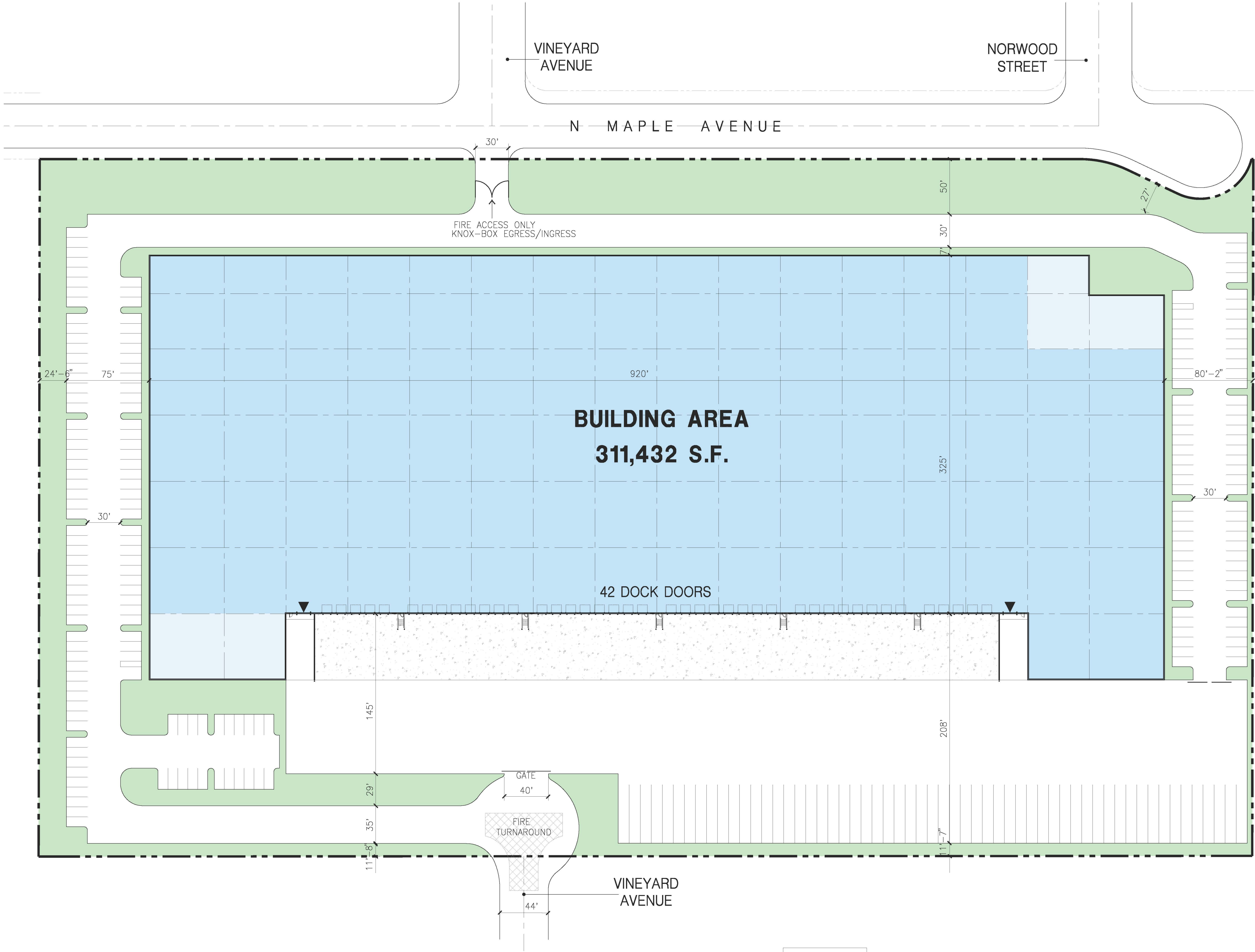
**Legend**

  Property line (15.89 acres)

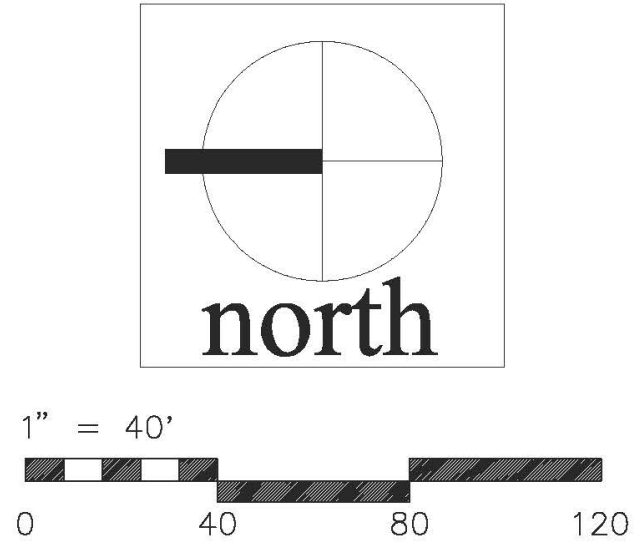


## **FIGURE 3**





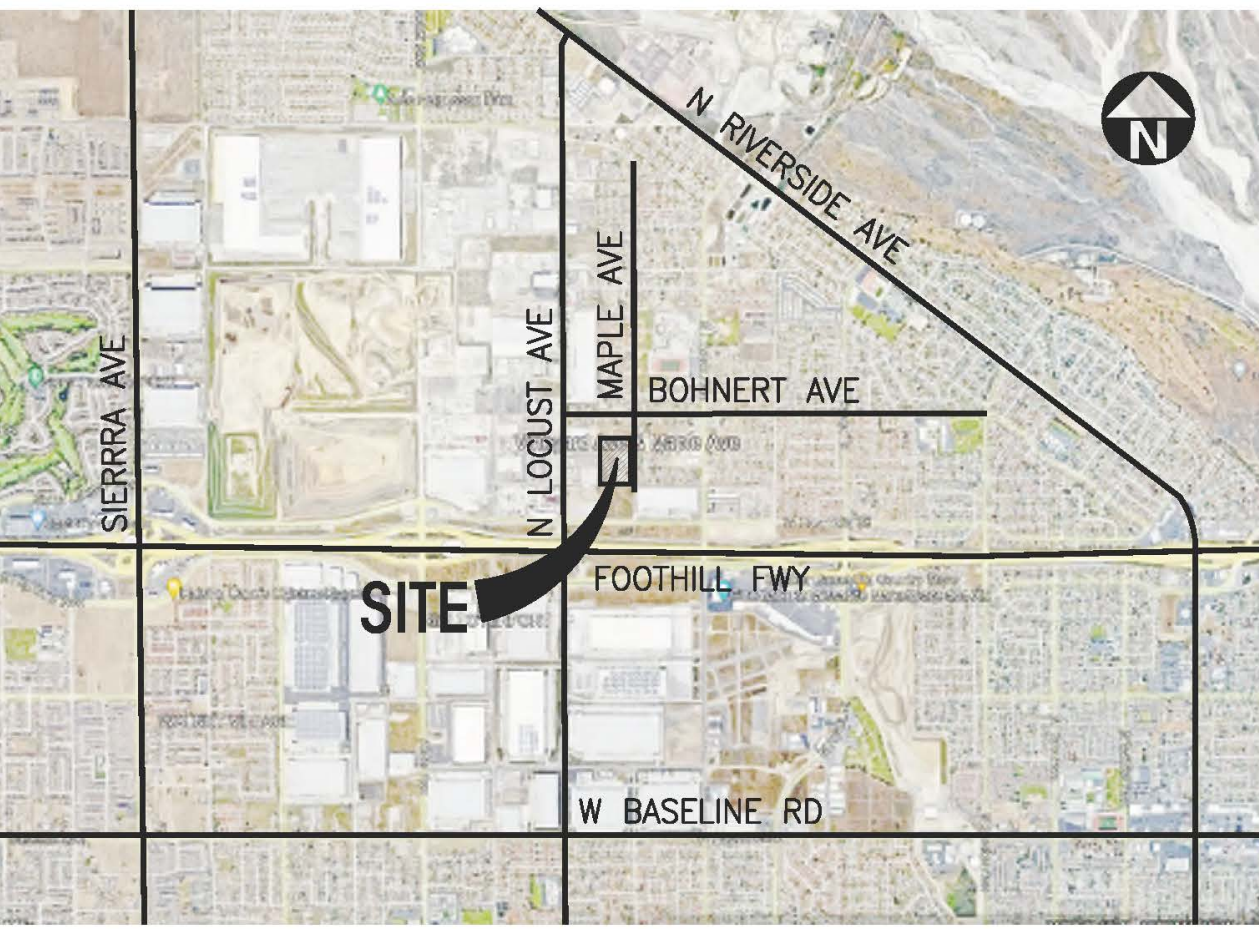
**Note:** This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.



Conceptual Site Plan

# Vineyard Ave & Maple Ave

## Aerial Map



## Tabulation

NET SITE AREA		
In s.f.	692,084	sf
In acres	15.89	ac
BUILDING AREA		
Office	5,000	sf
Warehouse	306,432	sf
TOTAL	311,432	sf
MAXIMUM FAR of net acreage		
FAR	0.45	
AUTO PARKING REQUIRED		
Office: 1/250 s.f.	20	stalls
Whse: 1st 40K @ 1/1,000 s.f.	40	stalls
above 40K @ 1/4,000 s.f	67	stalls
TOTAL	127	stalls
AUTO PARKING PROVIDED		
Standard (9' x 19')	191	stalls
TRAILER PARKING REQUIRED		
Trailer (10' x 53')	57	stalls
ZONING ORDINANCE		
Zoning - Residential Suburban (RS-1)		
Proposed Zoning - Commercial Industrial (I-C)		
MAXIMUM BUILDING HEIGHT ALLOWED - 75'		
LANDSCAPE REQUIREMENT		
Percentage - 15%		
LANDSCAPE PROVIDED		
In s.f.	115,121	sf
Percentage	16.6%	
SETBACKS		
Building		
Front - 25'		
Street Side - 25'		
Side - Interior (each) - 10'		
Rear - 10'		

## Legend

- POTENTIAL OFFICE
- WAREHOUSE
- DRIVE THRU DOOR





## FIGURE 4



SAN BERNARDINO COUNTY

**Figure 4**  
Habitat Map  
Maple Ave & Vineyard Ave  
Rialto, San Bernardino County, CA

- Legend**
- Developed (4.30 acres)
  - Ruderal (11.59 acres)
  - Project site (15.89 acres)



## **FIGURE 5**





**Figure 5**  
Impact Map  
Maple Ave & Vineyard Ave  
Rialto, San Bernardino County, CA

**Legend**

- Developed (4.30 acres)
- Ruderal (11.59 acres)
- Project site (15.89 acres)



## **FIGURE 6**





U.S. Fish and Wildlife Service

# National Wetlands Inventory

maple and vineyard



U.S. Fish and Wildlife Service, National Standards and Support Team,  
wetlands\_team@fws.gov

February 19, 2025

## Wetlands



Estuarine and Marine Deepwater



Estuarine and Marine Wetland



Freshwater Emergent Wetland



Freshwater Forested/Shrub Wetland



Freshwater Pond



Lake



Other



Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

## **APPENDIX A**

## Observed Species List

### Plant List

Scientific Name	Common Name
<i>Acmispon glaber</i>	Deerweed
<i>Ambrosia psilostachya</i>	Ragweed
<i>Avena fatua</i>	Wild oat
<i>Bromus diandrus</i>	Ripgut brome
<i>Eremocarpus setigerus</i>	Dove weed
<i>Erigeron foliosus</i>	Leafy fleabane
<i>Eriogonum fasciculatum</i>	California buckwheat
<i>Erodium botrys</i>	Red stemmed filaree
<i>Eucalyptus globulus</i>	Blue gum
<i>Euphorbia maculata</i>	Spotted spurge
<i>Fraxinus dipetala</i>	California ash
<i>Heterotheca grandiflora</i>	Telegraph weed
<i>Hirschfeldia incana</i>	Short podded mustard
<i>Lactuca serriola</i>	Prickly lettuce
<i>Lantana camara</i>	Lantana
<i>Maclura pomifera</i>	Osage orange
<i>Persea americana</i>	Avocado
<i>Pinus</i> sp.	Pine tree
<i>Plantanus occidentalis</i>	American sycamore
<i>Psilostrophe cooperi</i>	Paper flower
<i>Pyrus calleryana</i>	Callery pear
<i>Schinus terebinthifolius</i>	Brazilian pepper tree



*Tribulus terrestris*

Puncture vine

*Ulmus parvifolia*

Chinese elm

*Washingtonia robusta*

Mexican fan palm

### **Wildlife List**

**Scientific Name**

**Common Name**

*Zenaida macroura*

Mourning dove

## **APPENDIX B**

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Ambrosia monogyra	singlewhorl burrobrush	Dicots	None	None	2B.2	SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank	Chaparral   Sonoran desert scrub	Chaparral, Sonoran desert scrub.	Sandy soils. 5-475 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Aphyllon validum ssp. validum	Rock Creek broomrape	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Pinon & juniper woodlands	Chaparral, pinyon and juniper woodland.	On slopes of loose decomposed granite; parasitic on various chaparral shrubs. 975-1985 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Arctostaphylos glandulosa ssp. gabrielensis	San Gabriel manzanita	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral	Chaparral.	Rocky outcrops; can be dominant shrub where it occurs. 960-2015 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Arenaria paludicola	marsh sandwort	Dicots	Endangered	Endangered	1B.1	SB_SBB G-Santa Barbara Botanic Garden	Freshwater marsh   Marsh & swamp   Wetland	Marshes and swamps.	Growing up through dense mats of Typha, Juncus, Scirpus, etc. in freshwater marsh. Sandy soil. 3-170 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Asclepias nyctaginifolia	Mojave milkweed	Dicots	None	None	2B.1		Mojavean desert scrub   Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland.	775-1605 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Astragalus hornii var. hornii	Horn's milk- vetch	Dicots	None	None	1B.1	BLM_S- Sensitive	Alkali playa   Meadow & seep   Wetland	Meadows and seeps, playas.	Lake margins, alkaline sites. 75-350 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Astragalus lentiginosus var. antonius	San Antonio milk-vetch	Dicots	None	None	1B.3	SB_CalB G/RSAB G- California /Rancho Santa Ana Botanic Garden   SB_USD A-US Dept of Agricultur e   USFS_S- Sensitive	Lower montane coniferous forest   Upper montane coniferous forest	Lower montane coniferous forest, upper montane coniferous forest.	Dry slopes in open yellow pine forest. 1520-2575 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Berberis nevinii	Nevin's barberry	Dicots	Endangered	Endangered	1B.1	SB_CalB G/RSAB G- California /Rancho Santa Ana Botanic Garden   SB_SBB G-Santa Barbara Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub   Riparian scrub	Chaparral, cismontane woodland, coastal scrub, riparian scrub.	On steep, N- facing slopes or in low grade sandy washes. 90- 1590 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Botrychium ascendens	upswept moonwort	Ferns	None	None	2B.3	USFS_S- Sensitive	Lower montane coniferous forest   Meadow & seep	Lower montane coniferous forest, meadows and seeps.	Grassy fields, coniferous woods near springs and creeks. 1115- 3265 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Botrychium crenulatum	scalloped moonwort	Ferns	None	None	2B.2	USFS_S-Sensitive	Bog & fen   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Upper montane coniferous forest   Wetland	Bogs and fens, meadows and seeps, upper montane coniferous forest, lower montane coniferous forest, marshes and swamps.	Moist meadows, freshwater marsh, and near creeks. 1185-3110 m.	There is no suitable habitat on site. This species does not have the potential to be present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Brodiaea filifolia	thread-leaved brodiaea	Monocots	Threatened	Endangered	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Chaparral (openings), cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.	Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Occurs in openings on clay soils. 15-1030 m.	There is no suitable habitat on site. This species does not have the potential to be present.
California Walnut Woodland	California Walnut Woodland	Woodland	None	None			Cismontane woodland			Not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	Monocots	None	None	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_SBB G-Santa Barbara Botanic Garden   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest   Meadow & seep	Meadows and seeps, chaparral, lower montane coniferous forest.	Vernally moist places in yellow-pine forest, chaparral. 195-2530 m.	There is suitable habitat on site. This species has potential to be present.
Calochortus plummerae	Plummer's mariposa-lily	Monocots	None	None	4.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Calochortus weedii var. intermedius	intermediate mariposa-lily	Monocots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, valley and foothill grassland.	Dry, rocky calcareous slopes and rock outcrops. 60-1575 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Canbya candida	white pygmy-poppy	Dicots	None	None	4.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Joshua tree woodland   Mojavean desert scrub   Pinon & juniper woodlands	Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Gravelly, sandy, granitic places. 600-1460 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Carex comosa	bristly sedge	Monocots	None	None	2B.1	IUCN_LC Least Concern	Coastal prairie   Freshwater marsh   Marsh & swamp   Valley & foothill grassland   Wetland	Marshes and swamps, coastal prairie, valley and foothill grassland.	Lake margins, wet places; site below sea level is on a Delta island. 5-1010 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Meadow & seep   Pavement plain   Riparian woodland   Upper montane coniferous forest   Wetland	Meadows and seeps, pebble plain, upper montane coniferous forest, chaparral, riparian woodland.	Mesic to drying soils in open areas of stream and meadow margins or in vernal wet areas. 1140-2320 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/ Absence
Centromadia pungens ssp. laevis	smooth tarplant	Dicots	None	None	1B.1	SB_CalB G/RSAB G- California /Rancho Santa Ana Botanic Garden	Alkali playa   Chenopod scrub   Meadow & seep   Riparian woodland   Valley & foothill grassland   Wetland	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 5- 1170 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Dicots	Endangered	Endangered	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank   SB_SBB G-Santa Barbara Botanic Garden	Coastal dunes   Marsh & swamp   Salt marsh   Wetland	Marshes and swamps, coastal dunes.	Limited to the higher zones of salt marsh habitat. 0-10 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Coastal scrub, chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Chorizanthe xanti var. leucotheca	white-bracted spineflower	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_USD A-US Dept of Agriculture   USFS_S-Sensitive	Coastal scrub   Mojavean desert scrub   Pinon & juniper woodlands	Mojavean desert scrub, pinyon and juniper woodland, coastal scrub (alluvial fans).	Sandy or gravelly places. 365-1830 m.	There is suitable habitat on site. This species has potential to be present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Cladium californicum	California saw-grass	Monocots	None	None	2B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Alkali marsh   Freshwater marsh   Meadow & seep   Wetland	Meadows and seeps, marshes and swamps (alkaline or freshwater).	Freshwater or alkaline moist habitats. -40-2150 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Claytonia peirsonii ssp. peirsonii	Peirson's spring beauty	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Subalpine coniferous forest   Upper montane coniferous forest	Upper montane coniferous forest, subalpine coniferous forest.	Granitic scree slopes, often with a sandy or fine soil component and granitic cobbles. 1510-2745 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	Marsh	None	None			Marsh & swamp   Wetland			Not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Dicots	None	None	2B.2		Marsh & swamp   Wetland	Marshes and swamps (freshwater).	Freshwater marsh. 15-280 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Deinandra mohavensis	Mojave tarplant	Dicots	None	Endangered	1B.3	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Coastal scrub   Riparian scrub	Riparian scrub, coastal scrub, chaparral.	Low sand bars in river bed; mostly in riparian areas or in ephemeral grassy areas. 640-1645 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Eremothera boothii ssp. boothii	Booth's evening-primrose	Dicots	None	None	2B.3		Joshua tree woodland   Pinon & juniper woodlands	Joshua tree woodland, pinyon and juniper woodland.	285-2290 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Eriogonum microthecum var. johnstonii	Johnston's buckwheat	Dicots	None	None	1B.3	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Limestone   Subalpine coniferous forest   Upper montane coniferous forest	Subalpine coniferous forest, upper montane coniferous forest.	Slopes and ridges on granite or limestone. 1795-2865 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Fimbristylis thermalis	hot springs fimbristylis	Monocots	None	None	2B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Meadow & seep   Wetland	Meadows and seeps (alkaline).	Near hot springs. 115-1585 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Galium californicum ssp. primum	Alvin Meadow bedstraw	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest	Chaparral, lower montane coniferous forest.	Grows in shade of trees and shrubs at the lower edge of the pine belt, in pine forest-chaparral ecotone. Granitic, sandy soils. 1460-1830 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	Dicots	None	None	1A		Freshwater marsh   Marsh & swamp   Salt marsh   Wetland	Marshes and swamps (coastal salt and freshwater).	35-1525 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Heuchera parishii	Parish's alumroot	Dicots	None	None	1B.3	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Alpine boulder & rock field   Limestone   Lower montane coniferous forest   Subalpine coniferous forest   Upper montane coniferous forest	Lower montane coniferous forest, subalpine coniferous forest, upper montane coniferous forest, alpine boulder and rock field.	Rocky places. Sometimes on carbonate. 1340-3505 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Horkelia cuneata var. puberula	mesa horkelia	Dicots	None	None	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Imperata brevifolia	California satintail	Monocots	None	None	2B.1	SB_CalB G/RSAB G- California /Rancho Santa Ana Botanic Garden   SB_SBB G-Santa Barbara Botanic Garden   USFS_S- Sensitive	Chaparral   Coastal scrub   Meadow & seep   Mojavean desert scrub   Riparian scrub   Wetland	Coastal scrub, chaparral, riparian scrub, mojavean desert scrub, meadows and seeps (alkali), riparian scrub.	Mesic sites, alkali seeps, riparian areas. 3-1495 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Dicots	None	None	4.3		Chaparral   Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4- 1435 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Lilium parryi	lemon lily	Monocots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_CRE S-San Diego Zoo CRES Native Gene Seed	Lower montane coniferous forest   Meadow & seep   Riparian forest   Upper montane coniferous forest   Wetland	Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest.	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows and seeps. 625-2930 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Linanthus concinnus	San Gabriel linanthus	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Lower montane coniferous forest   Upper montane coniferous forest	Lower montane coniferous forest, upper montane coniferous forest, chaparral.	Dry rocky slopes, often in Jeffrey pine/canyon oak forest. 1310-2560 m.	There is no suitable habitat on site. This species does not have the potential to be present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Lycium parishii	Parish's desert-thorn	Dicots	None	None	2B.3	SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank	Coastal scrub   Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Malacothamnus parishii	Parish's bush-mallow	Dicots	None	None	1A		Chaparral   Coastal scrub	Chaparral, coastal sage scrub.	In a wash. 305-455 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Monardella australis ssp. jokerstii	Jokerst's monardella	Dicots	None	None	1B.1	USFS_S-Sensitive	Chaparral   Lower montane coniferous forest	Lower montane coniferous forest, chaparral.	Steep scree or talus slopes between breccia. Secondary alluvial benches along drainages and washes. 210-1740 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Monardella pringlei	Pringle's monardella	Dicots	None	None	1A		Coastal scrub	Coastal scrub.	Sandy hills. 300-400 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Muhlenbergia californica	California muhly	Monocots	None	None	4.3	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Chaparral   Coastal scrub   Lower montane coniferous forest   Meadow & seep	Coastal scrub, chaparral, lower montane coniferous forest, meadows and seeps.	Usually found near streams or seeps. 100-2000 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Muhlenbergia utilis	aparejo grass	Monocots	None	None	2B.2		Chaparral   Cismontane woodland   Coastal scrub   Marsh & swamp   Meadow & seep   Ultramafic	Meadows and seeps, marshes and swamps, chaparral, coastal scrub, cismontane woodland.	Sometimes alkaline, sometimes serpentinite. 25-2325 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Nasturtium gambelii	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   SB_SBB G-Santa Barbara Botanic Garden	Brackish marsh   Freshwater marsh   Marsh & swamp   Wetland	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-305 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Navarretia prostrata	prostrate vernal pool navarretia	Dicots	None	None	1B.2		Coastal scrub   Meadow & seep   Valley & foothill grassland   Vernal pool   Wetland	Coastal scrub, valley and foothill grassland, vernal pools, meadows and seeps.	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 3-1235 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Opuntia basilaris var. brachyclada	short-joint beavertail	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Joshua tree woodland   Mojavean desert scrub   Pinon & juniper woodlands	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Sandy soil or coarse, granitic loam. 425-2015 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Oreonana vestita	woolly mountain-parsley	Dicots	None	None	1B.3	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Lower montane coniferous forest   Subalpine coniferous forest   Upper montane coniferous forest	Subalpine coniferous forest, upper montane coniferous forest, lower montane coniferous forest.	High ridges; on scree, talus, or gravel. 800-3370 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Pedimelum castoreum	Beaver Dam breadroot	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Desert wash   Joshua tree woodland   Mojavean desert scrub	Joshua tree woodland, Mojavean desert scrub.	Sandy soils; washes and roadcuts. 605-1485 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Phacelia stellaris	Brand's star phacelia	Dicots	None	None	1B.1	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Coastal dunes   Coastal scrub	Coastal scrub, coastal dunes.	Open areas. 3-370 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Pseudognaphalium leucocephalum	white rabbit-tobacco	Dicots	None	None	2B.2		Chaparral   Cismontane woodland   Coastal scrub   Riparian woodland	Riparian woodland, cismontane woodland, coastal scrub, chaparral.	Sandy, gravelly sites. 35-515 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	None	None	1A		Riparian woodland	Riparian woodland.	Salix swales in riparian habitats. 65-300 m.	Not present.
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None			Coastal scrub			Not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Sagittaria sanfordii	Sanford's arrowhead	Monocots	None	None	1B.2	BLM_S-Sensitive	Marsh & swamp   Wetland	Marshes and swamps.	In standing or slow-moving freshwater ponds, marshes, and ditches. 0-605 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Schoenus nigricans	black bog-rush	Monocots	None	None	2B.2	IUCN_LC Least Concern   USFS_S-Sensitive	Marsh & swamp   Wetland	Marshes and swamps.	Often in alkaline marshes. 120-1525 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	Dicots	None	None	1B.2	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden   USFS_S-Sensitive	Chaparral   Cismontane woodland   Lower montane coniferous forest	Chaparral, cismontane woodland, lower montane coniferous forest.	In gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2000 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	SB_CalB G/RSAB G- California /Rancho Santa Ana Botanic Garden   SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank	Chaparral   Cismontane woodland   Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	There is suitable habitat on site. This species has the potential to be present.
Sidalcea neomexicana	salt spring checkerbloom	Dicots	None	None	2B.2	USFS_S- Sensitive	Alkali playa   Chaparral   Coastal scrub   Lower montane coniferous forest   Mojavean desert scrub   Wetland	Playas, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 3- 2380 m.	There is no suitable habitat on site. This species does not have the potential to be present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None			Riparian forest			Not present.
Southern Riparian Forest	Southern Riparian Forest	Riparian	None	None			Riparian forest			Not present.
Southern Riparian Scrub	Southern Riparian Scrub	Riparian	None	None			Riparian scrub			Not present.
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	None	None			Riparian woodland			Not present.
Sphenopholis obtusata	prairie wedge grass	Monocots	None	None	2B.2		Cismontane woodland   Meadow & seep   Wetland	Cismontane woodland, meadows and seeps.	Open moist sites, along rivers and springs, alkaline desert seeps. 15-2625 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	None	None	4.3	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Chaparral   Lower montane coniferous forest   Upper montane coniferous forest	Chaparral, lower montane coniferous forest.	Clay or decomposed granite soils; sometimes in disturbed areas such as streamsides or roadcuts. 1440-2500 m.	There is no suitable habitat on site. This species does not have the potential to be present.
Streptanthus campestris	southern jewelflower	Dicots	None	None	1B.3	BLM_S-Sensitive   SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank   USFS_S-	Chaparral   Lower montane coniferous forest   Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Open, rocky areas. 605-2590 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Symphyotrichum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden   SB_CRE S-San Diego Zoo CRES Native Gene Seed Bank   USFS_S-Sensitive	Cismontane woodland   Coastal scrub   Lower montane coniferous forest   Marsh & swamp   Meadow & seep   Valley & foothill grassland	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland.	Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 3-2045 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Symphyotrichum greatae</i>	Greata's aster	Dicots	None	None	1B.3	SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Broadleaved upland forest   Chaparral   Cismontane woodland   Lower montane coniferous forest   Riparian woodland	Chaparral, cismontane woodland, broadleaved upland forest, lower montane coniferous forest, riparian woodland.	Mesic canyons. 335-2015 m.	There is no suitable habitat on site. This species does not have the potential to be present.
<i>Viola pinetorum</i> ssp. <i>grisea</i>	grey-leaved violet	Dicots	None	None	1B.2	BLM_S-Sensitive   SB_CalB G/RSAB G-California /Rancho Santa Ana Botanic Garden	Meadow & seep   Subalpine coniferous forest   Upper montane coniferous forest	Subalpine coniferous forest, upper montane coniferous forest, meadows and seeps.	Dry mountain peaks and slopes. 1580-3700 m.	There is no suitable habitat on site. This species does not have the potential to be present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered   USFWS_BCC-Birds of Conservation Concern	Freshwater marsh   Marsh & swamp   Swamp   Wetland	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	There is no suitable habitat on site. This species is not present.
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral   Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass and forb patches.	There is no suitable habitat on site. This species is not present.
Anaxyrus californicus	arroyo toad	Amphibians	Endangered	None	CDFW_SSC-Species of Special Concern   IUCN_EN-Endangered	Desert wash   Riparian scrub   Riparian woodland   South coast flowing waters   South coast standing waters	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Anniella stebbinsi	Southern California legless lizard	Reptiles	None	None	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Broadleaved upland forest   Chaparral   Coastal dunes   Coastal scrub	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	There is no suitable habitat on site. This species is not present.
Arizona elegans occidentalis	California glossy snake	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Artemisiospiza belli belli	Bell's sparrow	Birds	None	None	CDFW_WL-Watch List	Chaparral   Coastal scrub	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	There is no suitable habitat on site. This species is not present.
Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Cismontane woodland   Great Basin scrub   Riparian forest   Riparian woodland   Upper montane coniferous forest	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	There is no suitable habitat on site. This species is not present.
Aspidoscelis hyperythra	orange-throated whiptail	Reptiles	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern   USFS_S-Sensitive	Chaparral   Cismontane woodland   Coastal scrub	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	None	None	CDFW_SSC-Species of Special Concern		Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland and riparian areas.	Ground may be firm soil, sandy, or rocky.	There is no suitable habitat on site. This species is not present.
Athene cunicularia	burrowing owl	Birds	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFWS_BCC-Birds of Conservation Concern	Coastal prairie   Coastal scrub   Great Basin grassland   Great Basin scrub   Mojavean desert scrub   Sonoran desert scrub   Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	There is no suitable habitat on site. This species is not present.
Batrachoseps gabrieli	San Gabriel slender salamander	Amphibians	None	None	IUCN_DD-Data Deficient   USFS_S-Sensitive	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	There is no suitable habitat on site. This species is not present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
<i>Bombus crotchii</i>	Crotch bumble bee	Insects	None	Candidate Endangered	IUCN_EN-Endangered		Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	There is no suitable habitat on site. This species is not present.
<i>Buteo swainsoni</i>	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive   IUCN_LC-Least Concern	Great Basin grassland   Riparian forest   Riparian woodland   Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	There is no suitable habitat on site. This species is not present.
<i>Catostomus santaanae</i>	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened   IUCN_EN-Endangered	Aquatic   South coast flowing waters	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	There is no suitable habitat on site. This species is not present.
<i>Chaetodipus fallax fallax</i>	northwestern San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. in western San Diego County.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Desert wash   Pinon & juniper woodlands   Sonoran desert scrub	Desert border areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	There is no suitable habitat on site. This species is not present.
Charina umbratica	southern rubber boa	Reptiles	None	Threatened	IUCN_VU-Vulnerable   USFS_S-Sensitive	Meadow & seep   Riparian forest   Riparian woodland   Upper montane coniferous forest   Wetland	Found in a variety of montane forest habitats. Previously considered morphologically intermediate, recent (2022) genomic analysis clarifies individuals from Mt Pinos, Tehachapi Mts, and southern Sierra Nevada are southern rubber boa.	Found in vicinity of streams or wet meadows; requires loose, moist soil for burrowing; seeks cover in rotting logs, rock outcrops, and under surface litter.	There is no suitable habitat on site. This species is not present.
Cicindela tranquebarica viridissima	greenest tiger beetle	Insects	None	None		Riparian woodland	Inhabits the woodlands adjacent to the Santa Ana River basin.	Usually found in open spots between trees.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive   USFS_S-Sensitive	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	There is no suitable habitat on site. This species is not present.
Coleonyx variegatus abbotti	San Diego banded gecko	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Chaparral   Coastal scrub	Coastal and cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	There is no suitable habitat on site. This species is not present.
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive	Chaparral   Mojavean desert scrub   Sonoran desert scrub	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Diadophis punctatus modestus	San Bernardino ringneck snake	Reptiles	None	None	USFS_S-Sensitive		Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	There is no suitable habitat on site. This species is not present.
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	Endangered	Candidate Endangered	CDFW_SSC-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	There is no suitable habitat on site. This species is not present.
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Threatened	Threatened	IUCN_VU-Vulnerable	Coastal scrub   Valley & foothill grassland	Primarily annual and perennial grasslands, but also occurs in coastal scrub and sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass and filaree. Will burrow into firm soil.	There is no suitable habitat on site. This species is not present.
Empidonax traillii extimus	Southwestern willow flycatcher	Birds	Endangered	Endangered		Riparian woodland	Riparian woodlands in Southern California.		There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Emys marmorata	western pond turtle	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_VU-Vulnerable   USFS_S-Sensitive	Aquatic   Artificial flowing waters   Klamath/North coast flowing waters   Klamath/North coast standing waters   Marsh & swamp   Sacramento/San Joaquin flowing waters   Sacramento/San Joaquin standing waters   South coast flowing waters   South coast standing waters   Wetland	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Eremophila alpestris actia	California horned lark	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Marine intertidal & splash zone communities   Meadow & seep	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	There is no suitable habitat on site. This species is not present.
Euchloe hyantis andrewsi	Andrew's marble butterfly	Insects	None	None		Lower montane coniferous forest	Inhabits yellow pine forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5000-6000 ft.	Hostplants are Streptanthus bernardinus and Arabis holboellii var pinetorum; larval foodplant is Descurainia richardsonii.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Eugnosta busckana	Busck's gallmoth	Insects	None	None		Coastal dunes   Coastal scrub	Coastal southern California.	Tiny micro-moth (1 cm) with larva forming galls on host plant Encelia californica (California brittlebush). Adult flight period is during winter, generally from November to February, and have been reported at UV lights and porch lights.	There is no suitable habitat on site. This species is not present.
Eumops perotis californicus	western mastiff bat	Mammals	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern	Chaparral   Cismontane woodland   Coastal scrub   Valley & foothill grassland	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	Roosts in crevices in cliff faces, high buildings, trees and tunnels.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Euphydryas editha quino	quino checkerspot butterfly	Insects	Endangered	None		Chaparral   Coastal scrub	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties.	Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Orthocarpus purpureus.	There is no suitable habitat on site. This species is not present.
Falco columbarius	merlin	Birds	None	None	CDFW_WL-Watch List   IUCN_LC-Least Concern	Estuary   Great Basin grassland   Valley & foothill grassland	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms and ranches.	Clumps of trees or windbreaks are required for roosting in open country.	There is no suitable habitat on site. This species is not present.
Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU-Vulnerable   CDFW_SSC-Species of Special Concern   IUCN_VU-Vulnerable   USFS_S-Sensitive	Aquatic   South coast flowing waters	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave and San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	There is no suitable habitat on site. This species is not present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
<i>Glaucomys oregonensis californicus</i>	San Bernardino flying squirrel	Mammals	None	None	CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Broadleaved upland forest   Lower montane coniferous forest	Known from black oak or white fir dominated woodlands between 5200 - 8500 ft in the San Bernardino and San Jacinto ranges. May be extirpated from San Jacinto range.	Needs cavities in trees/snags for nests and cover. Needs nearby water.	There is no suitable habitat on site. This species is not present.
<i>Haliaeetus leucocephalus</i>	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive   CDF_S-Sensitive   CDFW_FP-Fully Protected   IUCN_LC-Least Concern   USFS_S-Sensitive	Lower montane coniferous forest   Oldgrowth	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water.	Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	There is no suitable habitat on site. This species is not present.
<i>Helminthoglypta taylori</i>	westfork shoulderband	Mollusks	None	None		Riparian woodland	Vicinity of the Mojave River.	Under logs and leaves.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Icaricia saepiolus aureolus	San Gabriel Mountains blue butterfly	Insects	None	None	USFS_S-Sensitive	Lower montane coniferous forest	Type locality is a wet meadow seep in yellow pine forest.	Foodplant is Trifolium wormskioldii.	There is no suitable habitat on site. This species is not present.
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	There is no suitable habitat on site. This species is not present.
Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S-Sensitive   CDFW_FP-Fully Protected   IUCN_EN-Endangered	Brackish marsh   Freshwater marsh   Marsh & swamp   Salt marsh   Wetland	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	There is no suitable habitat on site. This species is not present.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	None	None		Coastal scrub	Intermediate canopy stages of shrub habitats and open shrub / herbaceous and tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Neolarra alba	white cuckoo bee	Insects	None	None			Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	There is no suitable habitat on site. This species is not present.
Neotamias speciosus speciosus	lodgepole chipmunk	Mammals	None	None		Chaparral   Upper montane coniferous forest	Summits of isolated Piute, San Bernardino, and San Jacinto mountains. Usually found in open-canopy forests.	Habitat is usually lodgepole pine forests in the San Bernardino Mts and chinquapin slopes in the San Jacinto Mts.	There is no suitable habitat on site. This species is not present.
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	There is no suitable habitat on site. This species is not present.
Nyctinomops femorosaccus	pocketed free-tailed bat	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Joshua tree woodland   Pinon & juniper woodlands   Riparian scrub   Sonoran desert scrub	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	Endangered	Candidate Endangered	AFS_EN-Endangered	Aquatic   South coast flowing waters	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County).	Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	There is no suitable habitat on site. This species is not present.
Onychomys torridus ramona	southern grasshopper mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Chenopod scrub	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.	Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Ovis canadensis nelsoni	desert bighorn sheep	Mammals	None	None	BLM_S-Sensitive   CDFW_FP-Fully Protected   USFS_S-Sensitive	Alpine   Alpine dwarf scrub   Chaparral   Chenopod scrub   Great Basin scrub   Mojavean desert scrub   Montane dwarf scrub   Pinon & juniper woodlands   Riparian woodland   Sonoran desert scrub	Widely distributed from the White Mtns in Mono Co. to the Chocolate Mts in Imperial Co.	Open, rocky, steep areas with available water and herbaceous forage.	There is no suitable habitat on site. This species is not present.
Palaeoxenus dohrni	Dohrn's elegant eucnemid beetle	Insects	None	None					There is no suitable habitat on site. This species is not present.
Pandion haliaetus	osprey	Birds	None	None	CDF_S-Sensitive   CDFW_WL-Watch List   IUCN_LC-Least Concern	Riparian forest	Ocean shore, bays, freshwater lakes, and larger streams.	Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	There is no suitable habitat on site. This species is not present.
<i>Phrynosoma blainvillii</i>	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Chaparral   Cismontane woodland   Coastal bluff scrub   Coastal scrub   Desert wash   Pinon & juniper woodlands   Riparian scrub   Riparian woodland   Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	There is no suitable habitat on site. This species is not present.
<i>Polioptila californica californica</i>	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC-Species of Special Concern	Coastal bluff scrub   Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Rana draytonii	California red-legged frog	Amphibians	Threatened	None	CDFW_SSC-Species of Special Concern   IUCN_VU-Vulnerable	Aquatic   Artificial flowing waters   Artificial standing waters   Freshwater marsh   Marsh & swamp   Riparian forest   Riparian scrub   Riparian woodland   Sacramento/San Joaquin flowing waters   Sacramento/San Joaquin standing waters   South coast flowing waters   South coast standing waters   Wetland	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Rana muscosa	southern mountain yellow-legged frog	Amphibians	Endangered	Endangered	CDFW_WL-Watch List   IUCN_EN-Endangered   USFS_S-Sensitive	Aquatic	Disjunct populations known from southern Sierras (northern DPS) and San Gabriel, San Bernardino, and San Jacinto Mtns (southern DPS). Found at 1,000 to 12,000 ft in lakes and creeks that stem from springs and snowmelt. May overwinter under frozen lakes.	Often encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	There is no suitable habitat on site. This species is not present.
Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	Insects	Endangered	None		Interior dunes	Found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. Oviposition req. shade.	There is no suitable habitat on site. This species is not present.



Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Rhinichthys osculus ssp. 8	Santa Ana speckled dace	Fish	None	None	AFS_TH-Threatened   CDFW_SSC-Species of Special Concern   USFS_S-Sensitive	Aquatic   South coast flowing waters	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system.	Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	There is no suitable habitat on site. This species is not present.
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Riparian forest   Riparian scrub   Riparian woodland	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	There is no suitable habitat on site. This species is not present.
Siphateles bicolor mohavensis	Mohave tui chub	Fish	Endangered	Endangered	AFS_EN-Endangered   CDFW_FP-Fully Protected	Aquatic   Artificial flowing waters   Artificial standing waters	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/ Absence
Spea hammondi	western spadefoot	Amphibians	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_NT-Near Threatened	Cismontane woodland   Coastal scrub   Valley & foothill grassland   Vernal pool   Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern	Alkali marsh   Alkali playa   Alpine   Alpine dwarf scrub   Bog & fen   Brackish marsh   Broadleaved upland forest   Chaparral   Chenopod scrub   Cismontane woodland   Closed-cone coniferous forest   Coastal bluff scrub   Coastal dunes   Coastal prairie   Coastal scrub   Desert dunes   Desert wash   Freshwater marsh   Great Basin grassland   Great Basin scrub   Interior dunes   lone formation   Joshua tree	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	There is no suitable habitat on site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Hab	Micro Habitat	Presence/Absence
Thamnophis hammondi	two-striped gartersnake	Reptiles	None	None	BLM_S-Sensitive   CDFW_SSC-Species of Special Concern   IUCN_LC-Least Concern   USFS_S-Sensitive	Marsh & swamp   Riparian scrub   Riparian woodland   Wetland	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	There is no suitable habitat on site. This species is not present.
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered		Riparian forest   Riparian scrub   Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	There is no suitable habitat on site. This species is not present.

## **APPENDIX C**



View of ornamental vegetation from main residential house. View looking north.



View of developed habitat. View looking east.



View of ruderal vegetation on site from the main residential house. View looking west.



View of developed habitat. View looking south.



View of ruderal vegetation. View looking west.



View of ruderal vegetation on site. View looking north.

## **APPENDIX D**



Soil Map—San Bernardino County Southwestern Part, California  
(M&V property line)



Soil Map—San Bernardino County Southwestern Part, California  
(M&V property line)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Bernardino County Southwestern Part, California

Survey Area Data: Version 14, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 17, 2022—Jun 12, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TvC	Tujunga gravelly loamy sand, 0 to 9 percent slopes	16.0	100.0%
<b>Totals for Area of Interest</b>		<b>16.0</b>	<b>100.0%</b>