



Hernandez

Environmental
Services

**GENERAL BIOLOGICAL ASSESSMENT
FOR
ASSESSOR'S PARCEL NUMBERS
0278-191-12, -17, -25, & -28**

**CITY OF SAN BERNARDINO
SAN BERNARDINO COUNTY, CALIFORNIA**

Prepared for:

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TABLE OF CONTENTS

1.0	Introduction.....	1
1.1	Project Location.....	1
1.2	Project Description	1
2.0	Methodology.....	1
2.1	Literature Review	1
2.2	Field Survey.....	2
3.0	Results	2
3.1	Environmental Setting	2
3.2	Soils	2
3.3	Habitat Communities.....	2
3.4	Sensitive Biological Resources.....	3
3.4.1	Sensitive Plant Resources.....	3
3.4.2	Sensitive Animal Resources.....	6
3.5	Critical Habitat	9
3.6	Migratory Nesting Birds.....	9
3.7	Wildlife Movement Corridors	9
3.8	Other City, County, Regional, State, or Federal Conservation Plans.....	10
3.9	Jurisdictional Waters	10
4.0	Project Impacts	10
4.1	Impacts to Habitat Types.....	10
4.2	Impacts to Sensitive Species.....	10
4.3	Impacts to Critical Habitat.....	10
4.4	Impacts to Migratory Nesting Birds.....	11
4.5	Impacts to Wildlife Movement Corridors	11
4.6	Conflict with Local Policies or Ordinances Protecting Biological Resources	11
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	11
4.8	State and Federal Drainages	11
5.0	Recommendations	11
6.0	Certification	13
7.0	References	14

FIGURES

- Figure 1 – Location Map
- Figure 2 – Vicinity Map
- Figure 3 – Project Plans
- Figure 4 – Habitat Map

APPENDICES

- Appendix A – Species Observed List
- Appendix B – Species Potential List
- Appendix C – Site Photographs
- Appendix D – Soils Map

1.0 Introduction

Hernandez Environmental Services (HES) was retained by EPD Solutions, Inc. to perform a General Biological Assessment (GBA) on an approximately 14.3-acre site comprised of Assessor's Parcel Numbers (APNs) 0278-191-12, -17, -25, and -28 in the City of San Bernardino, San Bernardino County, California. The purpose of the GBA is to document the presence/absence of sensitive resources that may be present on the site, to document existing habitats, and generally address biological questions that may be needed for project approval. This GBA will present the results obtained from the field survey and will provide recommendations that may be needed to mitigate potential biological impacts from project activities.

1.1 Project Location

The project site is located on the southwest corner of the intersection of 9th Street and Tippecanoe Avenue in the City of San Bernardino, San Bernardino County, California (Figures 1 and 2). Specifically, the project site is located within the San Bernardino land grant of the *San Bernardino South* United States Geological Survey (USGS) 7.5-minute topographic quadrangle. The project site center point latitude and longitude are 34°06'51.4945" North and 117°15'44.4615" West.

1.2 Project Description

The project proposes the development of an approximately 331,200 square foot industrial development including a warehouse and office building and truck trailer parking stalls. In addition, the proposed project includes associated site access improvements, parking facilities, landscaping, and related infrastructure and utilities. Refer to Figure 3. The proposed development is expected to impact the entire 14.3 acres.

2.0 Methodology

2.1 Literature Review

HES conducted a literature review and reviewed aerial photographs and topographic maps of the project location and surrounding areas. The following USGS quads were used to query the California Natural Diversity Database (CNDDDB): *San Bernardino South, Fontana, Devore, San Bernardino North, Harrison Mtn, Redlands, Sunnymead, Riverside East, and Riverside West*. The United States Fish and Wildlife Service (USFWS) County Endangered Species Lists and CNPS Rare Plant Inventory were reviewed to obtain species information for the project area.

2.2 Field Survey

On December 7th, 2021, HES conducted a field survey of the approximate 14.3-acre project site. Ambient temperature at 10:25 A.M. was 56° Fahrenheit, 100% cloud cover, with calm winds. The purpose of the field survey was to document the existing habitat conditions, obtain plant and animal species information, view the surrounding uses, assess the potential for state and federal waters, assess the potential for wildlife movement corridors, and assess for the presence of critical habitat constituent elements.

The entire 14.3-acre project site was surveyed. Linear transects approximately 50 feet apart were walked for 100 percent coverage. All species observed were recorded and Global Positioning System (GPS) way points were taken to delineate specific habitat types, species locations, state or federal waters, or 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 Results

3.1 Environmental Setting

The project site consists of disturbed land with sparse non-native vegetation and signs of frequent disking. The site is overlain with gravel intermixed with the soil throughout. A swale is located on the northeastern portion of the project site that collects stormwater sheet flow from a culvert that runs beneath Tippecanoe Avenue. Surrounding land uses include commercial development to the south and west and residential development to the north and east. The site is flat with elevations ranging from 1,062 feet above mean sea level (AMSL) to 1,066 feet AMSL.

3.2 Soils

According to the USDA Web Soil Survey, soils at the project site are classified as Grangeville fine sandy loam (Gs) saline-alkali (Appendix D).

3.3 Habitat Communities

The project site is dominated by disturbed areas (Figure 4). These areas are characterized by sparse vegetation throughout. Species found include flatspine burr ragweed (*Ambrosia acanthicarpa*), jimsonweed (*Datura stramonium*), prairie sunflower (*Helianthus petiolaris*), tumbleweed (*Amaranthus albus*), and puncture vine (*Tribulus terrestris*).

3.4 Sensitive Biological Resources

According to the CNDDDB, a total of 55 sensitive species of plants and 65 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 U. S. Fish and Wildlife Service (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. 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.

3.4.1 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. No special-status plant species were detected on the site during the reconnaissance surveys and no special-status plant species are expected to occur on the site due to lack of suitable habitat. Based on current site conditions and continual anthropogenic disturbances, it was determined that the project site does not provide suitable habitat, and the 13 plant species are presumed absent. Below are descriptions of these species:

San Diego ambrosia

San Diego ambrosia (*Ambrosia pumila*) is a federally Endangered Species and ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes wetlands in chaparral, coastal sage scrub, and valley and foothill grassland. It is commonly found in sandy loam or clay soil and sometimes in alkaline soils. This species persists where disturbance has been superficial. It is also sometimes found on margins or near vernal pools. No habitat for this species is present on the project site.

This species is not present.

Marsh sandwort

Marsh sandwort (*Arenaria paludicola*) is a federally and state listed Endangered Species and 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 (*Astragalus hornii* var. *hornii*) is ranked 1B.1 in the CNPS Rare Plant Inventory. It is typically found in alkali playa, meadow, seep, and wetland habitats. 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 listed 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

Thread-leaved brodiaea (*Brodiaea filifolia*) is a federally Threatened and state Endangered Species and is ranked 1B.1 in the CNPS Rare Plant Inventory. This species is usually associated with annual grassland and vernal pools and is often surrounded by shrubland habitats. Its habitats include 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. Its habitat includes alkali playa, chenopod scrub, meadows and seeps, riparian woodlands, wetlands, and valley and foothill grasslands. It is commonly found in alkali meadow, alkali scrub, and disturbed habitat. 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. 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.**

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. This species is typically found near flood deposited terraces and washes. Its habitat includes chaparral, cismontane woodland, and coastal scrub (alluvial fan sage scrub). No habitat for this species is present 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.**

Coulter's goldfields

Coulter's goldfields (*Lasthenia glabrata ssp. coulteri*) is ranked 1B.1 in the CNPS Rare Plant Inventory. Its habitat includes alkali playas, marsh, swamp, salt marsh, vernal pool, and wetland. It is usually found on alkaline soils in playas, sinks, and grasslands. 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 a 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. Its habitat includes coastal dunes and coastal scrub. No habitat for this species is present on the

project site. **This species is not present.**

3.4.2 Sensitive Animal Resources

A total of eighteen wildlife species are listed as state and/or federally Threatened, Endangered, Candidate, or Rare Species, as determined within Appendix B. Sensitive species which have a potential to occur will also be discussed in this section. All sensitive species within the *San Bernardino South 7.5'* USGS topographic quadrangle and eight surrounding quadrangles 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 a state listed Threatened Species and listed by the CDFW as a Species of Special Concern. Its habitat includes freshwater marsh, marsh and swamp, swamp, and wetland. This species is largely endemic to California and is most numerous in and around Central Valley. This species requires open accessible water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony. There is no habitat for this species on the project 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. No habitat for this species is present on the project site. **This species is not present.**

Santa Ana sucker

Santa Ana sucker (*Catostomus santaanae*) is a federally listed Threatened species. Its habitat includes aquatic and south coast flowing waters. This species prefers sand-rubble-boulder bottoms, cool and clear water, and algae. It is endemic to Los Angeles Basin south coastal streams. No habitat for this species is present on the project site. **This species is not present.**

Southern rubber boa

Southern rubber boa (*Charina umbratica*) is a state Threatened Species. It is known to inhabit a variety of forest habitats from the San Bernardino and San Jacinto Mountains. This species resides near streams or wet meadows and requires loose, moist soil for burrowing. 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 a federally listed Threatened and state listed Endangered Species. This species typically nests in riparian jungles of willows, often mixed with cottonwoods, with a 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, a state Candidate 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. No habitat for this species is present on the project site. **This species is not present.**

Stephens' kangaroo rat

Stephens' kangaroo rat (*Dipodomys stephensi*) is a federally listed Endangered Species 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 a federally and state listed Endangered Species. It is found in riparian woodland habitat 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 purpurescens*. The project site does not have suitable habitat for this species. **This species is not present.**

Bald eagle

Bald eagle (*Haliaeetus leucocephalus*) is a state listed Endangered Species and CDFW Fully Protected Species. This species is found in lower montane coniferous forest and old-growth. They nest in large old-growth or tress 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. No habitat for this species is present on the project site. **This species is not present.**

Steelhead – southern California DPS

Steelhead-southern California DPS (*Oncorhynchus mykiss irideus pop. 10*) is a federally listed Endangered Species. 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. No habitat for this species is present on the project site. **This species is not present.**

Coastal California gnatcatcher

Coastal California gnatcatcher (*Polioptila 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 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 federally and state listed Endangered Species and a CDFW Watch List 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 contain suitable habitat for this species. **This species is not present.**

Riverside fairy shrimp

Riverside fairy shrimp (*Streptocephalus woottoni*) is a federally listed Endangered Species. This species is found in coastal scrub, valley and foothill grassland, vernal pool, and wetland habitat. This species typically inhabits seasonally astatic pools filled by winter/spring rains. It is endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales, or earth slump basins in grassland and coastal sage scrub habitat. The project site does not contain suitable habitat for this species. **This species is not present.**

Least Bell's vireo

Least Bell's vireo (*Vireo bellii pusillus*) is a federally 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. The project site does not contain suitable habitat for this species. **This species is not present.**

3.5 Critical Habitat

The proposed project site is not located within any designated federal critical habitat. The closest federal critical habitat is San Bernardino kangaroo rat critical habitat located approximately 1.5 miles south of the project site adjacent to the Santa Ana River.

3.6 Migratory 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 trees and shrubs that can be utilized by nesting birds and raptors during the nesting bird season of February 1 through September 15.

3.7 Wildlife Movement Corridors

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 area was evaluated for its function as a wildlife corridor that species use to move between wildlife habitat zones. The project site consists of flat, developed, and disturbed land. Further, the project site is surrounded by urban development such as residential and industrial uses and busy roads. No wildlife movement corridors were found to be present on the project site.

3.8 Other City, County, Regional, State, or Federal Conservation Plans

The proposed project would not be anticipated to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

3.9 Jurisdictional Waters

The project site does not contain any drainage, riparian, or riverine features. 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.

4.0 Project Impacts

4.1 Impacts to Habitat Types

The proposed project consists of the construction a new industrial development. Implementation of the proposed project will impact the entire 14.30-acre site consisting of disturbed land.

4.2 Impacts to Sensitive Species

The project site is disturbed with sparse non-native vegetation. No habitat for sensitive species occurs within project boundaries. No sensitive species have the potential to occur on the project site. No impacts to sensitive species are expected.

4.3 Impacts to Critical Habitat

The project site is not located within designated federal critical habitat. The closest federal

critical habitat is San Bernardino kangaroo rat critical habitat located approximately 1.5 miles south of the project site. No impact to critical habitat would occur.

4.4 Impacts to Migratory 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.

4.5 Impacts to 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 City of San Bernardino's Municipal Code Chapter 15.34, Removal or Destruction of Trees. According to City Ordinance MC-1027, 9-09-98; and Ordinance MC-682, 11-09-89, it is unlawful to remove and/or destroy more than five (5) trees within thirty-six (36) months from a development site or parcel of property without a permit issued from the Development Services Department of the City of San Bernardino.

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 would not be anticipated to conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, 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

- If ground-disturbing and vegetation-clearing activities cannot be avoided during the nesting bird season (February 15 through September 15), a qualified biologist should conduct a pre-construction nesting bird survey within all areas of breeding/nesting habitat within and adjacent to the project site prior to initiation of project activities that would remove vegetation or otherwise disturb nesting activity (for instance, mobilization of heavy equipment). Surveys should be conducted not more than 3 days prior to initiation of activities.
- If nesting birds are encountered, a qualified biologist will establish an avoidance buffer zone around the nest (buffer zones vary according to species involved and shall be determined by a qualified biologist). No activities that would adversely affect the nest shall occur within the buffer zone until a qualified biologist has determined the nest is no longer active and the young are no longer dependent on the nest.

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 12-22-2021 Signed

PROJECT MANAGER

Fieldwork Performed By:

Sarah Vasquez

ASSOCIATE BIOLOGIST

Elizabeth Gonzalez

ASSOCIATE BIOLOGIST

Sarah Gulyas

ASSOCIATE BIOLOGIST

7.0 References

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FIGURES

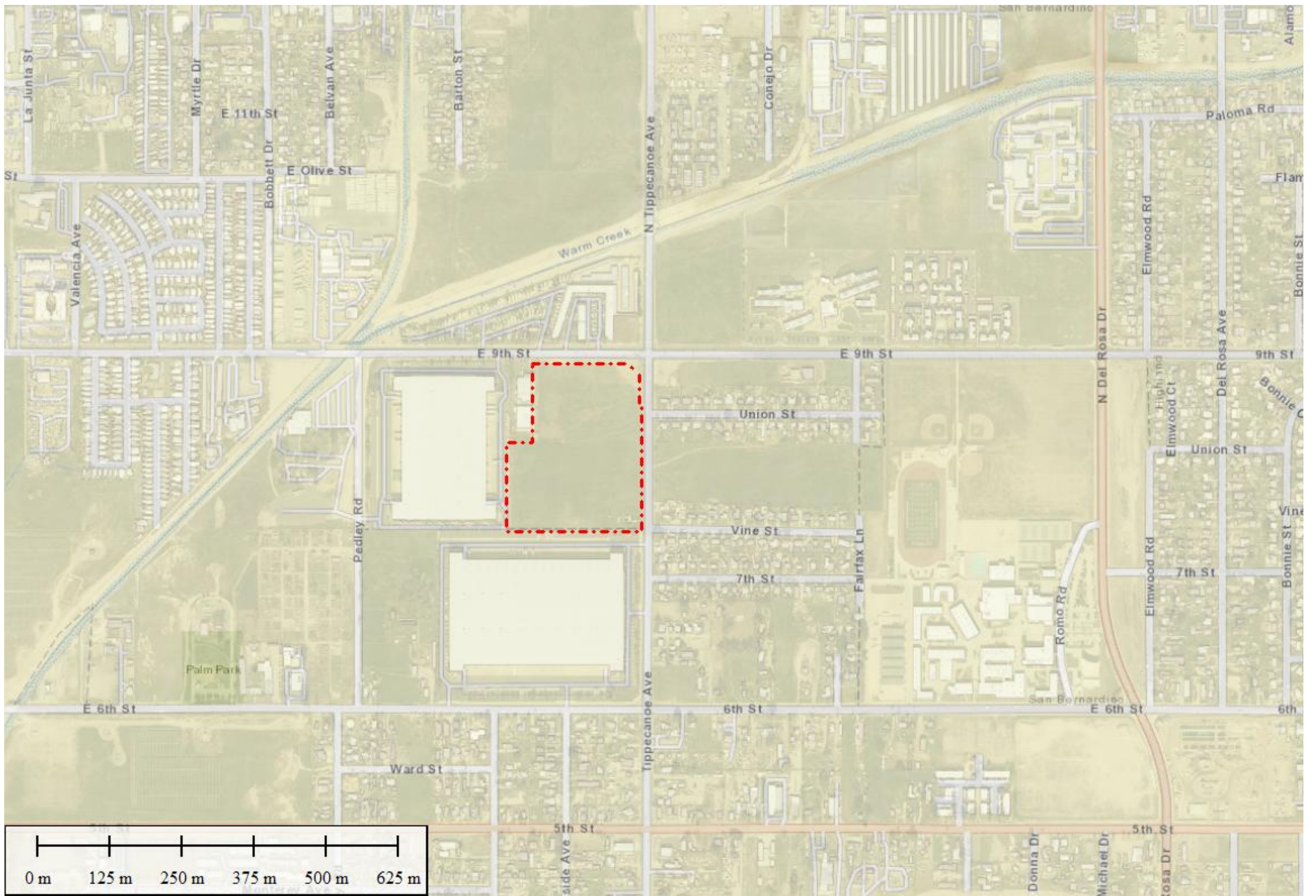


Figure 1

Location Map

APNs 0278-191-12, -17, -25, & -28

City of San Bernardino, San Bernardino County, California

Legend


 Project Site Boundary






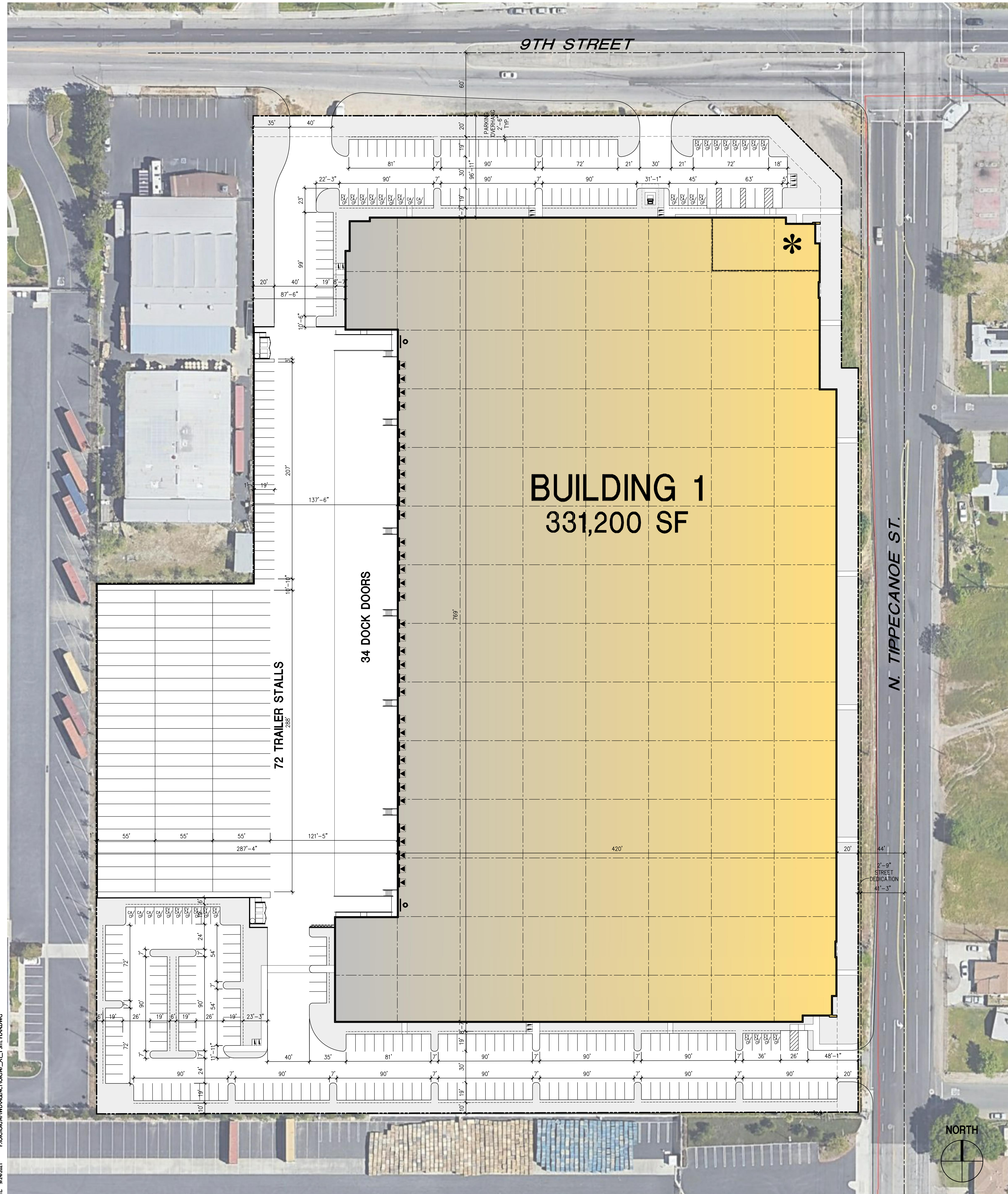
Figure 2

Vicinity Map
 APNs 0278-191-12, -17, -25, & -28
 City of San Bernardino, San Bernardino County, California

Legend

 Project Site Boundary





SITE INFORMATION

APN:
0278-191-17, 25, 28, 12

TENTATIVE PARCEL MAP:
TENTATIVE PARCEL MAP NO. XXX

LEGAL DESCRIPTION:
REF. TO CIVIL

LAND USE / ZONING:
EXISTING/PROPOSED GENERAL PLAN: XXX
EXISTING/PROPOSED ZONING: I/L LIGHT INDUSTRIAL
EXISTING LAND USE: VACANT

UTILITIES:
WATER: MUNICIPAL UTILITIES COMPANY
SEWER: MUNICIPAL UTILITIES COMPANY
GAS: SOUTHERN CALIFORNIA GAS COMPANY
ELECTRIC: SOUTHERN CALIFORNIA Edison
PHONE: VERIZON, AT&T
T.V.: TIME WARNER CABLE, VERIZON

SCHOOL DISTRICT:

XXX

CODE ANALYSIS:
2013 CBC CODE
BUILDING OCCUPANCY: B, S
CONSTRUCTION TYPE: III-B
FIRE SPRINKLERS (AUTOMATIC): YES
STORIES: 1

ZONING ANALYSIS:

MAX COVERAGE/FAR: 75%
REG. LANDSCAPING: 15%
MAX. BLDG HEIGHT: 50'

PARKING/LOADING:

STANDARD STALL: 9'x19'
COMPACT STALL: NOT ALLOWED
MIN. AISLE: 24', 30' FIRE DEPARTMENT ACCESS LANES

SITE PLAN & CITY NOTES

- NOTES:**
- THE PROPERTY IS NOT WITHIN A SPECIFIC PLAN.
 - THIS AREA IS NOT SUBJECT TO LIQUEFACTION OR OTHER GEOLOGIC HAZARDS WITHIN A SPECIAL STUDIES ZONE.
 - THIS PROPERTY IS NOT SUBJECT TO OVERFLOW, INUNDATION, OR FLOOD HAZARD.
 - SUBSURFACE SEPTIC SEWAGE IS NOT INTENDED FOR THIS SITE.
 - THE PROPERTY DOES NOT CONTAIN ANY FLAMMABLE/COMBUSTIBLE MATERIALS OR WASTE.
 - THE PROPERTY'S WATER QUALITY FEATURES ARE SHOWN AS PART OF THE CIVIL PACKAGE.
 - LOADING SPACES WILL BE PAVED WITH CONCRETE.
 - SERVICE GATES WILL BE MANUALLY OPERATED W/ KNOX PAD LOCK.
 - SIGN PROGRAM WILL BE UNDER SEPARATED PERMIT.
 - NO ABOVE/GRADE TANKS ARE PROVIDED.
 - SITE PLAN SHALL MEET ALL ENGINEERING & NPDES REQUIREMENTS.

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT ACCESS SHALL COMPLY WITH FIRE DEPARTMENT FIRE PROTECTION STANDARDS.

CALGREEN NOTES:

- PROJECT SITE IS LARGER THAN ONE ACRE - A STORM WATER POLLUTION PLAN IS REQUIRED (CG 5.106.1).
- VISITOR BICYCLE PARKING RACKS SHALL BE PROVIDED WITHIN 200 FEET OF BUILDING ENTRANCES, FOR A MINIMUM OF 5% NEW VISITOR VEHICULAR PARKING (CG 5.106.4.1).
- IN BUILDINGS WITH OVER 10 TENANT-OCCUPANTS, SECURE, LONG-TERM BICYCLE ENCLOSURES OR LOCKERS SHALL BE PROVIDED ON-SITE, FOR A MINIMUM OF 5% NEW TENANT VEHICULAR PARKING (CG 5.106.5.1). COMPLIANCE WITH THIS SECTION WILL BE PROVIDED IN EACH PERMIT FOR TENANT IMPROVEMENT IN AMOUNTS PROPORTIONAL TO THE PARKING REQUIRED FOR EACH TENANT IMPROVEMENT.
- CLEAN AIR PARKING SPACES SHALL BE PROVIDED ON SITE FOR CARPOOLS & FUEL-EFFICIENT VEHICLES, FOR A MINIMUM NUMBER OF SPACES PROPORTIONAL TO REQUIRED VEHICLE PARKING PER CALGREEN TABLE (CGS.106.5.2).
- LIGHTING DESIGN SHALL LIMIT GLARE AND UPLIGHT AND COMPLY WITH LOCAL CODES AND CALGREEN (CG 5.106.6).
- THIS PROJECT'S PLUMBING FIXTURES SHALL BE 20% WATER-CONSERVING (CG 5.303.2). BEING A SHELL BUILDING, COMPLIANCE WITH THIS SECTION WILL BE PROVIDED IN EACH PERMIT FOR TENANT IMPROVEMENT.
- FOR PROJECTS WITH OVER 1,000 SF OF LANDSCAPING, SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR OUTDOOR POTABLE WATER USE, AND IRRIGATION SYSTEM SHALL HAVE WEATHER- OR SOIL MOISTURE-BASED AUTOMATIC CONTROLLERS (CG 5.304.2&3).
- A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE DEVELOPED, DEMONSTRATING A MINIMUM OF 50% RECYCLING AND/OR SALVAGING OF NON-HAZARDOUS CONSTRUCTION WASTE AND COMPLYING WITH CALGREEN REQUIREMENTS (CG 5.408.1).
- 100% OF LAND-CLEARED SOILS AND VEGETATION SHALL BE REUSED OR RECYCLED (CG 5.408.3).
- PER SECTION 5.410.2, EXCEPTIONS 1 & 2, COMMISSIONING IS NOT REQUIRED FOR DRY STORAGE WAREHOUSES OR AREAS USED FOR OFFICES LESS THAN 10,000 SF IN DRY STORAGE WAREHOUSES. (CG 5.410.2).
- ALL CONSTRUCTION MATERIALS TO COMPLY WITH THE VOC AND TOXIN LIMITS LISTED (CG 5.504).
- SMOKING SHALL BE PROHIBITED WITHIN 25 FEET OF BUILDING ENTRIES, AIR INTAKES, AND OPERABLE WINDOWS (CG 5.504.7).

SITE AREA	SF	ACRES
Gross	622,692	14.30
Street Dedication	0	0.00
NET SITE AREA	622,692	14.30
BUILDING AREA		
Ground Floor Office	5,000	
Warehouse	326,200	
Total Building Footprint	331,200	
Mezzanine	0	
TOTAL BUILDING AREA	331,200	
COVERAGE (75% max)	53.2%	
FAR	53.2%	
PARKING REQUIRED		
Office		
0 - 2,999 sf	1/200	0
2,001 - 7,500 sf	1/250	20
Industrial / Warehousing		
0 - 3,000 sf	1/250	0
3,001 - 5,000 sf	1/500	0
5,001 - 10,000 sf	1/750	0
10,001 - 50,000 sf	1/1000	0
50,001 sf +	1/1250	261
TOTAL PARKING REQUIRED		281
PARKING PROVIDED		288
PARKING RATIO	0.87/1000	
Long Term Bicycle Stalls	5%	15
Short Term Bicycle Stalls	5%	15
Clean Air / Carpool Stalls	12%	35
Electric Vehicle Charging Station	10%	29
Dock Doors		34
Grade Level Doors		2
Trailer Stalls		72
LANDSCAPE	%	Area (S.F.)
Paved Surface Area		219,479
Required (15% of paved surface)	15.0%	32,922
Provided	30.0%	65,888

KEYNOTES

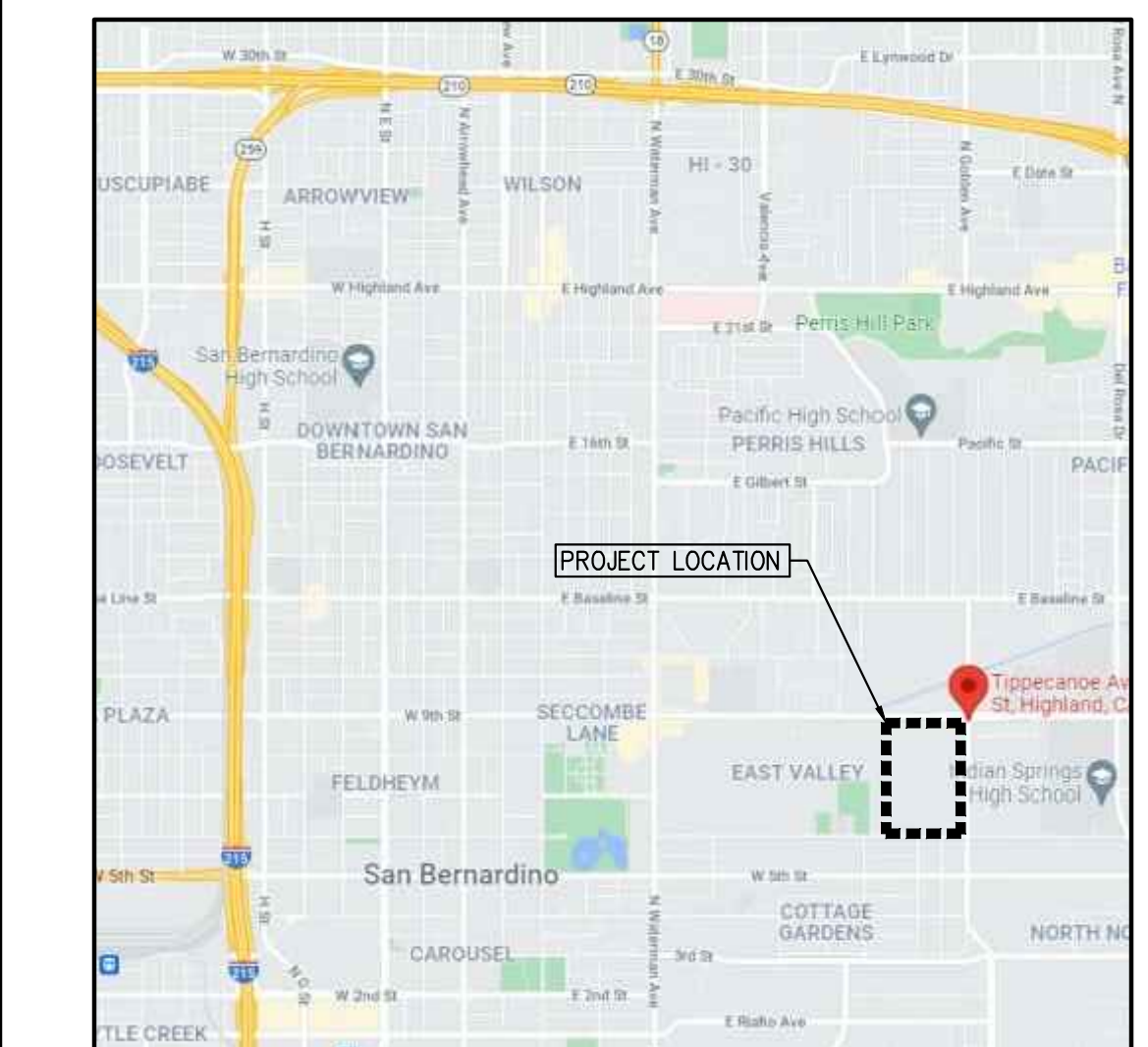
- 1.0 GENERAL
- PROPERTY LINE/ R.O.W. - REFER TO CIVIL DRAWINGS
 - CASEMENT - REFER TO CIVIL DRAWINGS
 - STANDARD PARKING STALL(S) - TYP.
 - ADA-ACCESSIBLE PARKING STALL(S)
 - CLEAN AIR/ VAN POOL/ EV PARKING STALL(S) PER CALGREEN 5.106.5.2
 - COMPACT PARKING STALL(S)
 - 2-WAY DRIVE AISLE: 24'W MIN.
 - FIRE DEPT. ACCESS DRIVE: 30'W MIN.
- 3.0 CONCRETE
- TILT-UP CONCRETE BUILDING WALL
 - CONCRETE STAIR W/ HANDRAIL & 42" GUARDRAIL
 - CONCRETE STAIR W/ HANDRAIL
 - TILT-UP CONCRETE SCREEN WALL, PTD.
 - TILT-UP CONCRETE TRASH ENCLOSURE, 6' TALL TYP.
 - TILT-UP CONCRETE GUARDRAIL T.O.W. 42" ABOVE HIGH SIDE
 - CONCRETE RETAINING WALL - SEE CIVIL
- 5.0 METAL FABRICATIONS
- STEEL PIPE BOLLARD, REFER TO 1/A0.2
- 12.0 FURNISHINGS
- BICYCLE RACK PER CAL GREEN; LONG-TERM 5% OF EMPLOYEE PARKING - REFER TO TABULATIONS
 - BICYCLE RACK PER CAL GREEN; SHORT-TERM 5% OF VISITOR PARKING - REFER TO TABULATIONS
- 21.0 FIRE SUPPRESSION - REFER TO FIRE PROTECTION DRAWINGS
- FUTURE FIRE PUMP HOUSE.
- 32.0 EXTERIOR IMPROVEMENT - REFER TO CIVIL AND LANDSCAPE U.N.O.
- LANDSCAPE PLANTING AREA
 - CONCRETE WALKWAY
 - CONCRETE CURB, TYP.
 - PRECAST CONCRETE WHEEL STOP
 - VEHICULAR PAVING
 - CONCRETE COMMERCIAL DRIVEWAY
 - CONCRETE TRUCK DOCK APRON
 - WROUGHT IRON GATE W/ MOTOR & KNOX PADLOCK - 8' TALL
- 33.0 UTILITIES - REFER TO CIVIL AND ELECTRICAL
- BIO-SWALE
 - ELECTRICAL TRANSFORMER
 - (C) POWER POLE
 - (E) FIRE HYDRANT

GENERAL NOTES

- GUARDS SHALL BE LOCATED ALONG OPEN SIDE OF WALKING SURFACES, STAIRS, RAMPS AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. GUARDS ARE NOT REQUIRED ON THE LOADING SIDE OF LOADING DOCKS (CBC 101.3.2).
- THE RUNNING SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2.083%).
- THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM.
- THE WASTE STORAGE AREA SHALL BE GRADED SO THAT STORAGE CONTAINERS REMAIN AT REST WITHOUT AUXILIARY RESTRAINING DEVICES.

SITE PLAN - LEGEND

- ACCESSIBLE PATH OF TRAVEL - 4' WIDE MINIMUM - 1:20 MAX RUNNING SLOPE (U.N.O.), AND 1:48 MAX CROSS SLOPE
- ACCESSIBLE PARKING STALL(S), TYP.
- PARKING STALL MARKING PER CALGREEN CLEAN AIR/VANPOOL/EV, TYP.
- COMPACT PARKING STALL(S), TYP.
- LANDSCAPE AREA, REFER TO LANDSCAPE DRAWINGS
- FIRE LANE - PER FIRE DEPARTMENT REQUIREMENTS



NO.	DESCRIPTION	DATE
1	PRE-APPLICATION REVIEW SUBMITTAL	9/28/21

SITE PLAN PROJECT TABULATIONS

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT.
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JOB NO.	OC0147.01	SHEET NO.
DATE:	9/28/21	A11
DRAWN:	GAA	
FILE NAME:	XXX001_11	



Figure 4
Habitat Map
APNs 0278-191-12, -17, -25, & -28
City of San Bernardino, San Bernardino County, California

Legend



Project Site Boundary



Disturbed Habitat (14.3 Acres)



APPENDIX A

Observed Species List

Plant List

Scientific Name	Common Name
<i>Amaranthus albus</i>	Tumbleweed
<i>Ambrosia acanthicarpa</i>	Flatspine bur ragweed
<i>Amsinckia menziesii</i>	Menzies' fiddleneck
<i>Avena barbata</i>	Slender wild oat
<i>Brassica tournefortii</i>	Asian mustard
<i>Bromus diandrus</i>	Great brome
<i>Callistemon citrinus</i>	Crimson bottlebrush
<i>Chamaesyce hyssopifolia</i>	Hyssopleaf sandmat
<i>Chenopodium album</i>	White goosefoot
<i>Cynodon dactylon</i>	Bermuda grass
<i>Datura stramonium</i>	Jimsonweed
<i>Erodium cicutarium</i>	Common stork's-bill
<i>Helianthus pauciflorus</i>	Prairie sunflower
<i>Malva parviflora</i>	Cheeseweed
<i>Olea europaea</i>	Olive tree
<i>Pyracantha coccinea</i>	Scarlet firethorn
<i>Robinia pseudoacacia</i>	Black locust
<i>Sisymbrium irio</i>	London rocket
<i>Tribulus terrestris</i>	Puncturevine
<i>Washingtonia robusta</i>	Mexican fan palm
<i>Yucca gigantea</i>	Spineless yucca

Wildlife List

Scientific Name

Common Name

Anthus rubescens

American pipit

Ardea alba

Great egret

Columbia livia

Rock pigeon

Corvus corax

Common raven

Mimus polyglottos

Mockingbird

APPENDIX B

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Allium howellii var. clokeyi	Mt. Pinos onion	Monocots	None	None	1B.3	Great Basin scrub Meadow & seep Pinon & juniper woodlands	Great Basin scrub, pinyon and juniper woodland, meadows and seeps (edges).	1385-1800 m.	No habitat for this species is present on the project site. This species is not present.
Ambrosia monogyra	singlewhorl burrobrush	Dicots	None	None	2B.2	Chaparral Sonoran desert scrub	Chaparral, Sonoran desert scrub.	Sandy soils. 5-475 m.	No habitat for this species is present on the project site. This species is not present.
Ambrosia pumila	San Diego ambrosia	Dicots	Endangered	None	1B.1	Chaparral Coastal scrub Valley & foothill grassland	Chaparral, coastal scrub, valley and foothill grassland.	Sandy loam or clay soil; sometimes alkaline. In valleys; persists where disturbance has been superficial. Sometimes on margins or near vernal pools. 3-580 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Arenaria paludicola	marsh sandwort	Dicots	Endangered	Endangered	1B.1	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.	No habitat for this species is present on the project site. This species is not present.
Astragalus hornii var. hornii	Horn's milk-vetch	Dicots	None	None	1B.1	Alkali playa Meadow & seep Wetland	Meadows and seeps, playas.	Lake margins, alkaline sites. 75-350 m.	No habitat for this species is present on the project site. This species is not present.
Berberis nevinii	Nevin's barberry	Dicots	Endangered	Endangered	1B.1	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Brodiaea filifolia	thread-leaved brodiaea	Monocots	Threatened	Endangered	1B.1	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.	No habitat for this species is present on the project site. This species is not present.
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	Monocots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.
Calochortus plummerae	Plummer's mariposa-lily	Monocots	None	None	4.2	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Carex comosa	bristly sedge	Monocots	None	None	2B.1	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. -51010 m.	No habitat for this species is present on the project site. This species is not present.
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	Dicots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Centromadia pungens ssp. laevis	smooth tarplant	Dicots	None	None	1B.1	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.	No habitat for this species is present on the project site. This species is not present.
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	Dicots	Endangered	Endangered	1B.2	Coastal dunes Marsh & swamp Salt marsh Wetland	Marshes and swamps, coastal dunes.	Limited to the higher zones of salt marsh habitat. 0-10 m.	No habitat for this species is present on the project site. This species is not present.
Chorizanthe parryi var. parryi	Parry's spineflower	Dicots	None	None	1B.1	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Chorizanthe xanti var. leucotheca	white-bracted spineflower	Dicots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Dicots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps (freshwater).	Freshwater marsh. 15-280 m.	No habitat for this species is present on the project site. This species is not present.
Dodecahema leptoceras	slender-horned spineflower	Dicots	Endangered	Endangered	1B.1	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	Santa Ana River woollystar	Dicots	Endangered	Endangered	1B.1	Chaparral Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180-705 m.	No habitat for this species is present on the project site. This species is not present.
<i>Fimbristylis thermalis</i>	hot springs fimbristylis	Monocots	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps (alkaline).	Near hot springs. 115-1585 m.	No habitat for this species is present on the project site. This species is not present.
<i>Galium californicum</i> ssp. <i>primum</i>	Alvin Meadow bedstraw	Dicots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Helianthus nuttallii</i> ssp. <i>parishii</i>	Los Angeles sunflower	Dicots	None	None	1A	Freshwater marsh Marsh & swamp Salt marsh Wetland	Marshes and swamps (coastal salt and freshwater).	35-1525 m.	No habitat for this species is present on the project site. This species is not present.
<i>Heuchera parishii</i>	Parish's alumroot	Dicots	None	None	1B.3	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.	No habitat for this species is present on the project site. This species is not present.
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	Dicots	None	None	1B.1	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Imperata brevifolia</i>	California satintail	Monocots	None	None	2B.1	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.	No habitat for this species is present on the project site. This species is not present.
<i>Ivesia argyrocoma</i> var. <i>argyrocoma</i>	silver-haired ivesia	Dicots	None	None	1B.2	Meadow & seep Pavement plain Upper montane coniferous forest	Meadows and seeps, pebble plains, upper montane coniferous forest.	In pebble plains and meadows with other rare plants. 1490-2960 m.	No habitat for this species is present on the project site. This species is not present.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	Dicots	None	None	1B.1	Alkali playa Marsh & swamp Salt marsh Vernal pool Wetland	Coastal salt marshes, playas, vernal pools.	Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m.	No habitat for this species is present on the project site. This species is not present.
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	Dicots	None	None	4.3	Chaparral Coastal scrub	Chaparral, coastal scrub.	Dry soils, shrubland. 4-1435 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Lilium parryi	lemon lily	Monocots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.
Lycium parishii	Parish's desert-thorn	Dicots	None	None	2B.3	Coastal scrub Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	No habitat for this species is present on the project site. This species is not present.
Malacothamnus parishii	Parish's bush-mallow	Dicots	None	None	1A	Chaparral Coastal scrub	Chaparral, coastal sage scrub.	In a wash. 305-455 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Monardella macrantha ssp. hallii	Hall's monardella	Dicots	None	None	1B.3	Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Valley & foothill grassland	Broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley and foothill grassland.	Dry slopes and ridges in openings. 700-1800 m.	No habitat for this species is present on the project site. This species is not present.
Monardella pringlei	Pringle's monardella	Dicots	None	None	1A	Coastal scrub	Coastal scrub.	Sandy hills. 300-400 m.	No habitat for this species is present on the project site. This species is not present.
Nasturtium gambelii	Gambel's water cress	Dicots	Endangered	Threatened	1B.1	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Opuntia basilaris var. brachyclada	short-joint beavertail	Dicots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.
Perideridia parishii ssp. parishii	Parish's yampah	Dicots	None	None	2B.2	Lower montane coniferous forest Meadow & seep Upper montane coniferous forest	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest.	Damp meadows or along streambeds-prefers an open pine canopy. 1470-2530 m.	No habitat for this species is present on the project site. This species is not present.
Phacelia stellaris	Brand's star phacelia	Dicots	None	None	1B.1	Coastal dunes Coastal scrub	Coastal scrub, coastal dunes.	Open areas. 3-370 m.	No habitat for this species is present on the project site. This species is not present.
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	None	None	1A	Riparian woodland	Riparian woodland.	Salix swales in riparian habitats. 65-300 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	None	None		Coastal scrub			No habitat for this species is present on the project site. This species is not present.
Schoenus nigricans	black bog-rush	Monocots	None	None	2B.2	Marsh & swamp Wetland	Marshes and swamps.	Often in alkaline marshes. 120-1525 m.	No habitat for this species is present on the project site. This species is not present.
Senecio aphanactis	chaparral ragwort	Dicots	None	None	2B.2	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Drying alkaline flats. 20-1020 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Sidalcea malviflora</i> ssp. <i>dolosa</i>	Bear Valley checkerbloom	Dicots	None	None	1B.2	Lower montane coniferous forest Meadow & seep Riparian woodland Upper montane coniferous forest Wetland	Meadows and seeps, riparian woodland, lower montane coniferous forest, upper montane coniferous forest.	Known from wet areas within forested habitats. Affected by hydrological changes. 1575-2590 m.	No habitat for this species is present on the project site. This species is not present.
<i>Sidalcea neomexicana</i>	salt spring checkerbloom	Dicots	None	None	2B.2	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.	No habitat for this species is present on the project site. This species is not present.
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	Inland Waters	None	None					Not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	None	None		Riparian forest			Not present.
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	None	None		Riparian forest			Not present.
Southern Mixed Riparian Forest	Southern Mixed 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.
Southern Willow Scrub	Southern Willow Scrub	Riparian	None	None		Riparian scrub			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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	None	None	4.3	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 streamsid es or roadcuts. 1440-2500 m.	No habitat for this species is present on the project site. This species is not present.
Streptanthus campestris	southern jewelflower	Dicots	None	None	1B.3	Chaparral Lower montane coniferous forest Pinon & juniper woodlands	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.	Open, rocky areas. 605-2590 m.	No habitat for this species is present on the project site. This species is not present.
Symphyotrichum defoliatum	San Bernardino aster	Dicots	None	None	1B.2	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Rare Plant Rank	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Thelypteris puberula</i> var. <i>sonorensis</i>	Sonoran maiden fern	Ferns	None	None	2B.2	Meadow & seep Wetland	Meadows and seeps.	Along streams, seepage areas. 60-930 m.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Accipiter cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern	Cismontane woodland Riparian forest Riparian woodland Upper montane coniferous forest	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	No habitat for this species is present on the project site. This species is not present.
Agelaius tricolor	tricolored blackbird	Birds	None	Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List 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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Aimophila ruficeps canescens</i>	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.	No habitat for this species is present on the project site. This species is not present.
<i>Anniella stebbinsi</i>	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Antrozous pallidus	pallid bat	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive WBWG_H-High Priority	Chaparral Coastal scrub Desert wash Great Basin grassland Great Basin scrub Mojavean desert scrub Riparian woodland Sonoran desert scrub Upper montane coniferous forest Valley & foothill grassland	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
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.	No habitat for this species is present on the project site. This species is not present.
Artemisiospiza belli belli	Bell's sage sparrow	Birds	None	None	CDFW_WL- Watch List USFWS_BCC- Birds of Conservation Concern	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
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.	No habitat for this species is present on the project site. This species is not present.
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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
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.	No habitat for this species is present on the project 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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Bombus crotchii	Crotch bumble bee	Insects	None	None			Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	No habitat for this species is present on the project site. This species is not present.
Bombus morrisoni	Morrison bumble bee	Insects	None	None	IUCN_VU-Vulnerable		From the Sierra-Cascade ranges eastward across the intermountain west.	Food plant genera include Cirsium, Cleome, Helianthus, Lupinus, Chrysothamnus, and Melilotus.	No habitat for this species is present on the project site. This species is not present.
Buteo regalis	ferruginous hawk	Birds	None	None	CDFW_WL-Watch List IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Great Basin grassland Great Basin scrub Pinon & juniper woodlands Valley & foothill grassland	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats.	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Buteo swainsoni	Swainson's hawk	Birds	None	Threatened	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation 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.	No habitat for this species is present on the project site. This species is not present.
Catostomus santaanae	Santa Ana sucker	Fish	Threatened	None	AFS_TH-Threatened IUCN_VU-Vulnerable	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.	No habitat for this species is present on the project site. This species is not present.
Ceratochrysis longimala	Desert cuckoo wasp	Insects	None	None					No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Chaetodipus fallax fallax	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.	No habitat for this species is present on the project site. This species is not present.
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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Charina umbratica	southern rubber boa	Reptiles	None	Threatened	USFS_S-Sensitive	Meadow & seep Riparian forest Riparian woodland Upper montane coniferous forest Wetland	Known from the San Bernardino and San Jacinto mtns; found in a variety of montane forest habitats. Snakes resembling C. umbratica reported from Mt. Pinos and Tehachapi mtns group with C. bottae based on mtDNA. Further research needed.	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.	No habitat for this species is present on the project 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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	Threatened	Endangered	BLM_S-Sensitive NABCI_RWL-Red Watch List USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	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.	No habitat for this species is present on the project 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.	No habitat for this species is present on the project site. This species is not present.
Coturnicops noveboracensis	yellow rail	Birds	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_RWL-Red Watch List USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	Freshwater marsh Meadow & seep	Summer resident in eastern Sierra Nevada in Mono County.	Freshwater marshlands.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC-Species of Special 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.	No habitat for this species is present on the project site. This species is not present.
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.	No habitat for this species is present on the project 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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Dipodomys stephensi	Stephens' kangaroo rat	Mammals	Endangered	Threatened	IUCN_EN-Endangered	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.	No habitat for this species is present on the project site. This species is not present.
Empidonax traillii extimus	southwestern willow flycatcher	Birds	Endangered	Endangered	NABCI_RWL-Red Watch List	Riparian woodland	Riparian woodlands in Southern California.		No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Eremophila alpestris actia</i>	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.	No habitat for this species is present on the project site. This species is not present.
<i>Euchloe hyantis andrewsi</i>	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 <i>Streptanthus bernardinus</i> and <i>Arabis holboellii</i> var <i>pinetorum</i> ; larval foodplant is <i>Descurainia richardsonii</i> .	No habitat for this species is present on the project site. This species is not present.
<i>Eugnosta busckana</i>	Busck's gallmoth	Insects	None	None		Coastal dunes Coastal scrub			No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
<i>Eumops perotis californicus</i>	western mastiff bat	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern WBWG_H-High Priority	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.	No habitat for this species is present on the project site. This species is not present.
<i>Euphydryas editha quino</i>	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 <i>Plantago erecta</i> , <i>P. insularis</i> , and <i>Orthocarpus purpurescens</i> .	No habitat for this species is present on the project site. This species is not present.
<i>Falco columbarius</i>	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Gila orcuttii	arroyo chub	Fish	None	None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern 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.	No habitat for this species is present on the project site. This species is not present.
Glaucomys oregonensis californicus	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Haliaeetus leucocephalus	bald eagle	Birds	Delisted	Endangered	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	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.	No habitat for this species is present on the project site. This species is not present.
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Riparian forest Riparian scrub Riparian woodland	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Lanius ludovicianus	loggerhead shrike	Birds	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest Desert wash Joshua tree woodland Mojavean desert scrub Pinon & juniper woodlands Riparian woodland Sonoran desert scrub	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	No habitat for this species is present on the project site. This species is not present.
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern WBWG_H-High Priority	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Laterallus jamaicensis coturniculus	California black rail	Birds	None	Threatened	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_NT-Near Threatened NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	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.	No habitat for this species is present on the project site. This species is not present.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Intermediate canopy stages of shrub habitats and open shrub / herbaceous and tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	No habitat for this species is present on the project site. This species is not present.
Neolarra alba	white cuckoo bee	Insects	None	None			Known only from localities in Southern California.	Cleptoparasitic in the nests of perdita bees.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
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.	No habitat for this species is present on the project 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 WBWG_M-Medium Priority	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	Endangered	None	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.	No habitat for this species is present on the project 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.	No habitat for this species is present on the project site. This species is not present.
Perognathus alticola alticola	white-eared pocket mouse	Mammals	None	None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFS_S-Sensitive	Lower montane coniferous forest Mojavean desert scrub Pinon & juniper woodlands	Ponderosa and Jeffrey pine habitats; also in mixed chaparral and sagebrush habitats in the San Bernardino Mountains.	Burrows are constructed in loose soil.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Perognathus longimembris brevinasus	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.	No habitat for this species is present on the project site. This species is not present.
Phrynosoma blainvillii	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Polioptila californica californica	coastal California gnatcatcher	Birds	Threatened	None	CDFW_SSC-Species of Special Concern NABCI_YWL-Yellow Watch List	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
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.	No habitat for this species is present on the project site. This species is not present.
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.	No habitat for this species is present on the project site. This species is not present.
Salvadora hexalepis virgultea	coast patch-nosed snake	Reptiles	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation 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.	No habitat for this species is present on the project site. This species is not present.
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.	No habitat for this species is present on the project site. This species is not present.
Spinus lawrencei	Lawrence's goldfinch	Birds	None	None	IUCN_LC-Least Concern NABCI_YWL-Yellow Watch List USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest Chaparral Pinon & juniper woodlands Riparian woodland	Nests in open oak or other arid woodland and chaparral, near water. Nearby herbaceous habitats used for feeding.	Closely associated with oaks.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	Micro Habitat	Presence/Absence
Streptocephalus woottoni	Riverside fairy shrimp	Crustaceans	Endangered	None	IUCN_EN-Endangered	Coastal scrub Valley & foothill grassland Vernal pool Wetland	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	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	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.	No habitat for this species is present on the project site. This species is not present.

Scientific Name	Common Name	Taxon Group	Federal List	State List	Other Status	Habitats	General Habitat	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.	No habitat for this species is present on the project site. This species is not present.
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered	IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List	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.	No habitat for this species is present on the project site. This species is not present.

APPENDIX C



View of ruderal habitat on northern part of site, facing northeast.



View of ruderal habitat on southern part of site, facing east.



View of ruderal habitat on northern part of site, facing north.



View of ruderal habitat on southern part of site, facing south. Ornamental vegetation exists along the border of the project site.



View of ruderal habitat on southern part of site, facing north.



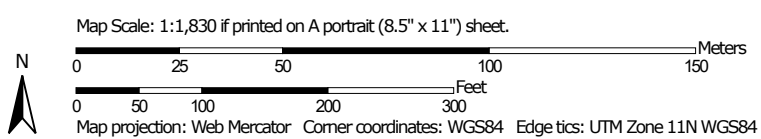
View of ruderal habitat on southern part of site, facing northwest. Ornamental vegetation and litter exists on the southeast corner of the project site.

APPENDIX D

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



Soil Map may not be valid at this scale.



Soil Map—San Bernardino County Southwestern Part, California
(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 13, Sep 13, 2021

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

Date(s) aerial images were photographed: Apr 1, 2018—Jun 30, 2018

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
Gs	Grangeville fine sandy loam, saline-alkali	15.2	100.0%
Totals for Area of Interest		15.2	100.0%