

# **GENERAL BIOLOGICAL RESOURCES ASSESSMENT**

**APPLE VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA**

**(Township 4 North, Range 3 West, Section 5)  
(APN 0434-042-15)**

*Prepared for:*

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**Project: #2023-75**

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1905 Business Center Drive  
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**Location:** Apple Valley, California

**Assessor's Parcel Number:** 0434-042-15

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# Table of Contents

1.0	INTRODUCTION AND SUMMARY .....	1
2.0	EXISTING CONDITIONS.....	2
3.0	METHODOLOGIES .....	4
4.0	LITERATURE SEARCH .....	5
5.0	RESULTS .....	7
5.1	General Biological Resources .....	7
5.2	Federal and State Listed Species.....	8
5.3	Wildlife Species of Special Concern.....	8
5.4	Jurisdictional Waters and Riparian Habitat.....	9
5.5	Protected Plants .....	9
6.0	IMPACTS AND MITIGATION MEASURES .....	10
6.1	General Biological Resources .....	10
6.2	Federal and State Listed and Species of Special Concern .....	10
7.0	CONCLUSIONS AND RECOMMENDATIONS .....	11
8.0	BIBLIOGRAPHY .....	12
	CERTIFICATION .....	14
	REGULATORY CONTEXT .....	18

Appendix A – Tables and Figures

REGULATORY CONTEXT

## **1.0 INTRODUCTION AND SUMMARY**

Biological surveys were conducted on a 4.4-Acre (approximate) parcel located southwest of the intersection of Bear Valley Rd. and Itoya Vista in the City of Apple Valley, California (Township 4 North, Range 3 West, Section 5, USGS Apple Valley South, California Quadrangle, 1956) (Figures 1, 2, and 3).

As part of the environmental process, California Department of Fish and Wildlife (CDFW) and U.S. Fish and Wildlife Service (USFWS) data sources were reviewed. Following the data review, surveys were performed on the site on June 13, 2023, during which the biological resources on the site and in the surrounding areas were documented by biologists from RCA Associates, Inc. As part of the surveys, the property and adjoining areas were evaluated for the presence of native habitats which may support populations of sensitive wildlife species. The property was also evaluated for the presence of sensitive habitats including wetlands, vernal pools, riparian habitats, and jurisdictional areas.

Focused surveys were conducted for the desert tortoise and burrowing owl along with a habitat assessment for the Mohave ground squirrel. Based on data from USFWS, CDFW, and a search of the California Natural Diversity Database (CNDDDB, 2023). Scientific nomenclature for this report is based on the following references: Hickman (1993), Munz (1974), Stebbins (2003), Sibley (2000) and Whitaker (1980).

## 2.0 EXISTING CONDITIONS

The property is 4.4-acres (approximately) located southwest of the intersection of Bear Valley Rd. and Itoya Vista Rd. in the City of Apple Valley, California (Township 4 North, Range 3 West, Section 5, USGS Apple Valley South, California Quadrangle, 1956). The property is bordered by vacant land in the north and residential properties in all other directions.

The site is approximately 916 meters above sea level with no slope and supports a disturbed desert scrub plant community common in the region. The vegetation community on site is creosote bush scrub habitat encompassing mainly native plants and some non-native grasses. The site is dominated by creosote bush (*Larrea tridentata*), kelch grass (*Schismus barbatus*), Nevada jointfir (*Ephedra nevadensis*), red-stem storksbill (*Erodium cicutarium*), rubber rabbitbrush (*Ericameria nauseosa*), Joshua Tree (*Yucca brevifolia*) and white bursage (*Ambrosia dumosa*). Section 5.0 provides a more detailed discussion of the various plant species observed during the surveys.

The site supports a minimal amount of wildlife, with majority of them being birds. One mammal, the California ground squirrel (*Otospermophilus beecheyi*), was observed on site. Other mammals that are expected to occur include desert cottontails (*Sylvilagus audubonii*), antelope ground squirrel (*Ammospermophilus leucurus*), and black-tailed jackrabbit (*Lepus californicus*). Coyotes (*Canis latrans*) may also occasionally occur on site during hunting activities.

Birds observed included ravens (*Corvus corax*), anna's hummingbird (*Calypte anna*) and house finch (*Haemorhous mexicanus*). Section 5.0 provides a more detailed discussion of the various species observed during the surveys.

No reptiles were observed during the survey. Reptiles that may occur on the site include the desert spiny lizard (*Sceloporus magister*), zebra-tailed lizard (*Callisaurus draconoides*), the western whiptail lizard (*Cnemidophorus tigris*), the long nose leopard lizard (*Gambelia wislizenii*), and the common side-blotched lizard (*Uta stansburiana*). Table 2 provides a compendium of wildlife species.

In addition, no sensitive habitats (e.g., sensitive species critical habitats, etc.) have been documented in the immediate area according to the CNDDDB (2023) and none were observed during the field investigations.

### 3.0 METHODOLOGIES

General biological surveys were conducted on June 13, 2023, during which biologists from RCA Associates, Inc. initially walked meandering transects throughout the property. During the surveys, data was collected on the plant and animal species present on the site. All plants and animals detected during the surveys were recorded and are provided in Tables 1 & 2 (Appendix A). The property was also evaluated for the presence of habitats which might support sensitive species. Scientific nomenclature for this report is based on the following references: Hickman (1993), Munz (1974), Stebbins (2003), Sibley (2000) and Whitaker (1980). Following completion of the initial reconnaissance survey, habitat assessments were conducted for the desert tortoise, burrowing owl, and Mohave ground squirrel. Weather conditions consisted of wind speeds of 0 to 5 mph, temperatures in the low to mid 0's (°F) (PM) with 0% cloud cover. The applicable methodologies are summarized below.

**General Plant and Animal Surveys:** Meandering transects were walked on the site and in surrounding areas (i.e., the zone of influence) where accessible at a pace that allowed for careful documentation of the plant and animal species present on the site. All plants observed were identified in the field and wildlife was identified through visual observations and/or by vocalizations. Habitat assessments were conducted for the desert tortoise, burrowing owl, and Mohave ground squirrel. Tables 1 and 2 (Appendix A) provides a comprehensive compendium of the various plant and animal; species observed during the field investigations.

#### 4.0 LITERATURE SEARCH

As part of the environmental process, a search of the California Natural Diversity Database (CNDDDB) search was performed. Based on this review, it was determined that ten special status species have been documented within the Apple Valley South quadrangle of the property, seven wildlife species and three plant species. The following tables provide data on each special status species which has been documented in the area.

**Table 4-1: Federal and State Listed Species and State Species of Special Concern.**

E = Endangered; T = Threatened; SSC = Species of special concern; CNPS = California Native Plant Society; CNDDDB = California Natural Diversity Data Base

NAME	STATUS	HABITAT REQUIREMENTS	PRESENCE/ ABSENCE ON PROPERTY
<b>PLANTS</b>			
<b>Within Apple Valley South Quadrangle</b>			
Pinyon rockcress ( <i>Boecheera dispar</i> )	Federal: Threatened State: Threatened CNPS: 2B.3	Joshua tree woodland, pinyon-juniper woodland	The site does not support suitable habitat for the species; none were observed during field surveys.
San Bernardino Mountains dudleya ( <i>Dudleya abramsii ssp. affinis</i> )	Federal: None State: None CNPS: 1B.2	Pinyon-juniper woodland, upper montane coniferous, pebble plain	Site does not support suitable habitat for the species; and no species were observed during the field survey.
Booth's evening-primrose ( <i>Eremothera boothii ssp. boothii</i> )	Federal: None State: Threatened CNPS: 2B.3	Joshua tree woodland, pinyon and juniper woodland	The site does not support suitable habitat for the species, and none were observed during field surveys.

**Notes:**

**Status abbreviations:**

- CNPS List 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
- CNPS List 1B: Plants rare, threatened, or endangered in California and elsewhere
- CNPS List 2A: Plants presumed extirpated in California, but more common somewhere else
- CNPS List 2B: Plants rare, threatened, or endangered in California, but more common somewhere else
- CNPS List 3: Plants about which more information is needed - a review list
- CNPS List 4: Plants of limited distribution - a watch list
  - .1 Seriously threatened in California (over 80% of occurrences threatened/ high degree and immediacy of threat)
  - .2 Moderately threatened in California (20-80% occurrences threatened/ moderate degree and immediacy of threat)
  - .3 No very threatened in California (<20% of occurrences threatened/ low degree and immediacy of threat or no current threats known)



**Table 4-2: Special status wildlife and insects documented in the region (Source: CNDDDB, 2023) or likely to occur in the region**

NAME	STATUS	HABITAT REQUIREMENTS	PRESENCE/ ABSENCE ON PROPERTY
<b>Wildlife Species</b>			
<b>Within Apple Valley South Quadrangle</b>			
Townsend’s big-eared bat ( <i>Corynorhinus townsendii</i> )	Federal: None State: None	Pine forests and arid desert scrub habitats near caves or roosting areas.	The site does not support suitable habitat and no species were observed.
Burrowing owl ( <i>Athene cunicularia</i> )	Federal: None State: None	Grasslands and desert habitats	The site does not support minimal suitable habitat for the species; however, no owls or owl sign was observed during field surveys.
Mohave ground squirrel ( <i>Xerospermophilus mohavensis</i> )	Federal: None State: Threatened	Desert scrub	The site does not support suitable habitat for the species. Species has not been identified in the area; therefore, species are not likely to inhabit the site.
Pallid San Diego pocket mouse ( <i>Chaetodipus fallax pallidus</i> )	Federal: None State: None	Low growing vegetation and rocky outcroppings.	The site does not support suitable habitat, no species were observed and are not likely to occur.
Le Conte’s thrasher ( <i>Toxostoma lecontei</i> )	Federal: None State: None	Desert scrub	Site does not support suitable habitat for the species; but no thrashers were observed during the field survey.
Coast Horned Lizard ( <i>Phrynosoma blainvillii</i> )	Federal: None State: None	Desert scrub Sandy washes	The site does not support suitable habitat for the species; no coast horned lizard was observed during field surveys.
Mohave tui chub ( <i>Siphateles bicolor mohavensis</i> )	Federal: Endangered State: Endangered	Three populations exist at Soda Springs, China Lake Naval Weapons Station, and Camp Cady Wildlife Area	No suitable habitat on site, and will not occur on site.

## 5.0 RESULTS

### 5.1 General Biological Resources

The site supports a sparse desert scrub plant community which covers the property (Figure 3). Species present on the site included kelch grass (*Schismus barbatus*), creosote bush (*Larrea tridentata*), Asian mustard (*Brassica tournefortii*), Joshua tree (*Yucca brevifolia*), tree of heaven (*Ailanthus altissima*), Siberian elm (*Ulmus pumila*), cheatgrass (*Bromus tectorum*), and silver cholla (*Cylindropuntia echinocarpa*). Table 1 provides a compendium of all plants occurring on the site and/or in the immediate surrounding area.

Birds observed included ravens (*Corvus corax*), anna's hummingbird (*Calypte anna*) and house finch (*Haemorhous mexicanus*). No reptiles were observed during the survey. Some reptiles that may occur on the site include desert spiny lizard (*Sceloporus magister*), zebra-tailed lizard (*Callisaurus draconoides*), western whiptail lizard (*Cnemidophorus tigris*), long nose leopard lizard (*Gambelia wislizenii*), and the common side-blotched lizard (*Uta stansburiana*). One mammal was observed on site, the California ground squirrel (*Otospermophilus beecheyi*). The black-tailed jackrabbit (*Lepus californicus*), desert cottontails (*Sylvilagus audubonii*), coyote (*Canis latrans*), and Merriam's kangaroo rats (*Dipodomys merriami*) may also occur on the site given their wide-spread distribution in the region. Tables 1 and 2 (Appendix A) provides a compendium of the various plant and animal species identified during the field investigations and those common to the area. No distinct wildlife corridors were identified on the site or in the immediate area.

No sensitive habitats (e.g., wetlands, vernal pools, critical habitats for sensitive species, etc.) were observed on the site during the field investigations.

The following are the listed and special status species that have the ability to occur on the project site. It is not a comprehensive list of all the species in the Apple Valley South quadrangle. This information has been taken from the California Natural Diversity Database and is using the most current version.

## 5.2 Federal and State Listed Species

**Desert Tortoise:** The site is located within the documented tortoise habitat according to CNDDDB (2023) and supports minimal habitat for the desert tortoise based on the field investigations. No tortoises were observed anywhere within the property boundaries or within the zone of influence during the June 13, 2023 surveys. The species is not expected to move onto the site in the near future based on the absence of any sign, absence of suitable burrows, absence of any recent observations in the immediate area, and the presence of busy roadways in the immediate area which may act as barriers to migration of the tortoises. The protocol survey results are valid for one year as per CDFW and USFWS requirements.

**Mohave Ground Squirrel:** The site does occur within the known distribution of the Mohave Ground Squirrel, but no recent observations of Mohave ground squirrels have occurred in the area. It is the opinion of RCA Associates, Inc. that the habitat is not prime Mohave ground squirrel habitat and is very unlikely to support populations of the species based on the following criteria:

1. No recent documented observations in the general region.
2. No connectivity with habitat which may support the species.

## 5.3 Wildlife Species of Special Concern

**Burrowing Owl:** The site is located within documented burrowing owl habitat according to CNDDDB (2023) and does support minimal suitable habitat for the species. No suitable burrows were located during the June 2023 field investigations, but no owls or owl sign (e.g., white wash, castings etc.) was observed at the mouth of the burrows or on the property during the survey. A pre-construction survey may need to be done within 30 days of ground breaking activities.

#### **5.4 Jurisdictional Waters and Riparian Habitat**

No riparian vegetation (e.g., cottonwoods, willows, etc.) exist on the site or in the adjacent habitats. It is the opinion of RCA Associates Inc. that the no further surveys will be necessary at this point.

#### **5.5 Protected Plants**

**As of September 22, 2020, the California Department of Fish and Wildlife temporarily listed the western Joshua tree (*Yucca brevifolia*) as an endangered species until a final decision is made in 2023. Joshua trees were observed on site during the June 13, 2023 field investigations. Any attempt to remove dead or alive Joshua trees from the property will require an Incidental Take Permit.**

## **6.0 IMPACTS AND MITIGATION MEASURES**

### **6.1 General Biological Resources**

Future development of the site will have minimal impact on the general biological resources present on the site, and most, if not all, of the vegetation will likely be removed during future construction activities. Wildlife will also be impacted by development activities and those species with limited mobility (i.e., small mammals and reptiles) will experience increases in mortality during the construction phase. However, more mobile species (i.e., birds, large mammals) will be displaced into adjacent areas and will likely experience minimal impacts. Therefore, loss of about 4.4-acres of desert vegetation is not expected to have a significant cumulative impact on the overall biological resources in the region given the presence of similar habitat throughout the surrounding desert region. No sensitive habitats (e.g., wetlands, vernal pools, critical habitats for sensitive species, etc.) were observed on the site during the field investigations.

### **6.2 Federal and State Listed and Species of Special Concern**

No federal or State-listed wildlife species were observed on the site during the field investigations including the Mohave ground squirrel and desert tortoise. In addition, there are no documented observations of these species either on the site or in the immediate area. The site is not expected to support populations of the desert tortoise based on the absence of sign and minimal suitable habitat.

The Western Joshua tree (*Yucca brevifolia*), a candidate threatened species under the California Endangered Species Act (CESA), was observed on site. Refer to section 5.5 for more information on the status and requirements on this species.

As per CDFW protocol, the burrowing owl survey results are valid for only 30 days; therefore, CDFW may require a 30-day pre-construction survey be performed prior to any clearing/grading activities to determine if owls have moved on to the site since the June 13, 2023 surveys.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

Future development activities are expected to grade the property and remove the remaining vegetation from the 4.4-acre parcel; however, cumulative impacts to the general biological resources (plants and animals) in the surrounding area are expected to be negligible. This assumption is based on the habitat containing scarce vegetation of non-native species. In addition, future development activities are not expected to have any impact on any State or Federal listed or State special status plant or animal species. As discussed above, the site does not support any desert tortoises. In addition, burrowing owls do not inhabit the site and are not expected to be impacted given the absence of any suitable burrows. The following mitigation measures should be considered:

1. Pre-construction surveys for burrowing owls, desert tortoise, and nesting birds protected under the Migratory Bird Treaty Act and Section 3503 of the California Fish and Wildlife Code shall be conducted prior to the commencement of Project-related ground disturbance.
  - a. Appropriate survey methods and timeframes shall be established, to ensure that chances of detecting the target species are maximized. In the event that listed species, such as the desert tortoise, are encountered, authorization from the USFWS and CDFW must be obtained. If nesting birds are detected, avoidance measures shall be implemented to ensure that nests are not disturbed until after young have fledged.

If any sensitive species are observed on the property during future activities, CDFW and USFWS (as applicable) should be contacted to discuss specific mitigation measures which may be required for the individual species. CDFW and USFWS are the only agencies which can grant authorization for the “take” of any sensitive species and can approve the implementation of any applicable mitigation measures

## 8.0 BIBLIOGRAPHY

Baldwin, Bruce G, et. al.

2002. The Jepson Desert Manual. Vascular Plants of Southeastern California. University of California Press, Berkeley, CA.

Bureau of Land Management

January 2005. Final Environmental Impact Report and Statement for the West Mojave Plan. Vol. 1A.

California Burrowing Owl Consortium

1993. Burrowing Owl Survey Protocol and Mitigation Guidelines.

California Department of Fish and Game

1990. California Wildlife: Volume 1 (Amphibians and Reptiles), Volume II (Birds), and Volume III (Mammals).

California Department of Fish and Game

2003. Mohave Ground Squirrel Survey Guidelines.

California Department of Fish and Game

2014. Rarefind 3 Natural Diversity Database. Habitat and Data Analysis Branch. Sacramento, CA.

California Department of Fish and Game

March 7, 2013. Staff Report on Burrowing Owl Mitigation. 34 pp.

California Native Plant Society

2001. Inventory of Rare and Endangered Plants of California (sixth edition). Rare Plant Scientific Advisory Committee, David P. Tibor, Convening Editor. California Native Plant Society. Sacramento, CA x + 388 pp.

Ehrlich, P., Dobkin., Wheye, D.

Birder's Handbook. A Field Guide to the Natural History of North American Birds. Simon & Schuster Building Rockefeller Center 1230 Avenue of the Americas. New York, New York 10020.

Hickman, James C.

The Jepson Manual Higher Plants of California. University of California Press. Berkeley, CA. 3<sup>rd</sup> Edition. 1996.

Jaeger, Edmund C.

1969. Desert Wild Flowers. Stanford University Press, Stanford, California. 321 pp.

Kays, R. W. & Wilson, D. E.

Mammals of North America. Princeton University Press, Princeton, New Jersey. 2002.

- Munz, Philip A.  
1974. A Flora of Southern California. University of California Press, Berkeley, California. 1086 pp.
- Tugel, Arlene J., Woodruff, George A.  
Soil Conservation Service, 1978. Soil Survey of San Bernardino County California, Mojave River Area.
- Sibley, David Allen.  
National Audubon Society. The Sibley guide to Birds. Alfred A Knopf, Inc. 2000.
- Stebbins, Robert C.  
A Field Guide to Western Reptiles and Amphibians. Houghton Mifflin Company. 2003.
- U.S. Fish and Wildlife Service  
2010 Desert Tortoise Survey Protocol.
- Whitaker, John O.  
The Audubon Society Field Guide to North American Mammals. Alfred A Knopf, Inc. 1980.



## CERTIFICATION

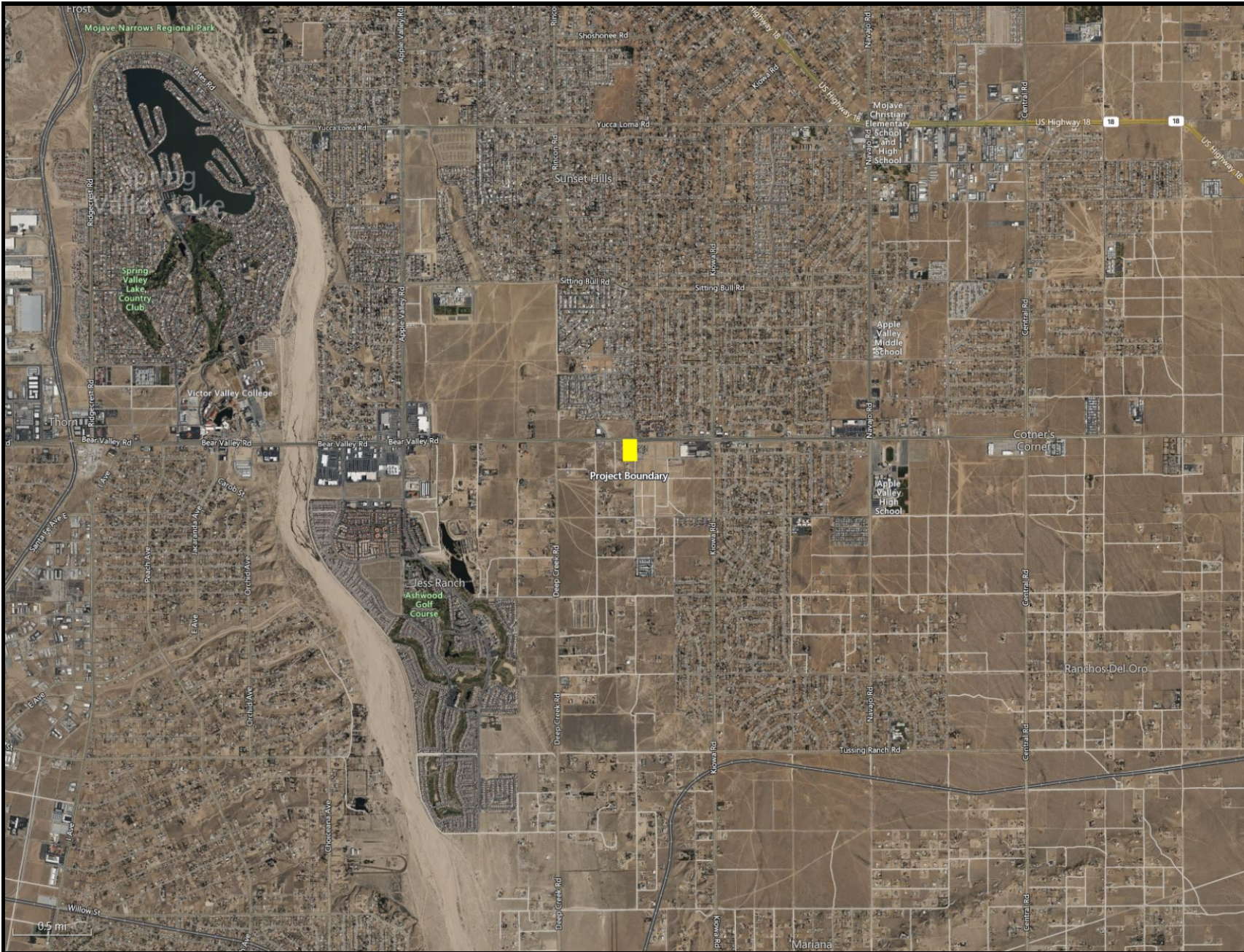
I hereby certify that the statements furnished above and in the attached exhibits, presents the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief. Fieldwork conducted for this assessment was performed by Ryan Hunter and Brian Bunyi. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project applicant or applicant's representative and that I have no financial interest in the project.

Date: 6/20/2023 Signed: *Ryan Hunter*  
*Brian Bunyi*

Field Work Performed By: Ryan Hunter  
Senior Environmental Scientist/Biologist

Field Work Performed By: Brian Bunyi  
Wildlife Biologist

**Appendix A**  
**Tables and Figures**



**Legend**  
 Project Boundary



**Figure 1: Regional Exhibit**


Produced By: RCA Associates Inc.

**SW of the Intersection of Bear Valley Rd. and Itoya Vista Rd. in the City of Apple Valley, CA**

Source:	Uinta Software
Acreage:	4.4-Acre (Approximately)
Project #:	2023-75





**Legend**  
 Project Boundary



**Figure 2: Vicinity Exhibit**

Produced By: RCA Associates Inc.

**SW of the Intersection of Bear Valley Rd. and Itoya Vista Rd. in the City of Apple Valley, CA**

Source:	Uinta Software
Acreage:	4.4-Acre (Approximately)
Project #:	2023-75



CENTER OF SITE LOOKING NORTH



CENTER OF SITE LOOKING EAST



FIGURE 3: PHOTOGRAPHS OF SITE

CENTER OF SITE LOOKING SOUTH



CENTER OF SITE LOOKING WEST



FIGURE 3, cont: PHOTOGRAPHS OF SITE

**Table 1 - Plants observed on the site and known to occur in the immediate surrounding area.**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Location</b>
Asian mustard	<i>Brassica tournefortii</i>	On Site
Cheatgrass	<i>Bromus tectorum</i>	“
Silver cholla	<i>Cylindropuntia echinocarpa</i>	“
Creosote bush	<i>Larrea tridentata</i>	“
Fiddleneck	<i>Ansickia tessellata</i>	“
Kelch grass	<i>Schismus barbatus</i>	“
Nevada jointfir	<i>Ephedra nevadensis</i>	“
Western tansymustard	<i>Descurainia pinnata</i>	“
Rubber rabbitbrush	<i>Ericameria nauseosa</i>	“
Desert globe mallow	<i>Sphaeralcea ambigua</i>	“
Red stem storksbill	<i>Erodium cicutarium</i>	“
Tree of heaven	<i>Ailanthus altissima</i>	“
Water jacket	<i>Lycium andersonii</i>	“
Siberian elm	<i>Ulmus pumila</i>	“

Note: The above list is not intended to be a comprehensive list of every plant which may occur on the site or in the zone of influence.

**Table 2 - Wildlife observed on the site during the field investigations.**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Location</b>
Common raven	<i>Corvus corax</i>	On-site and in the surrounding area.
House finch	<i>Carpodacus mexicanus</i>	“
Anna’s hummingbird	<i>Calypte anna</i>	“
Rock pigeon	<i>Columba livia</i>	“
California Ground Squirrel	<i>Otospermophilus beecheyi</i>	“

Note: The above Table is not a comprehensive list of every animal species which may occur in the area, but is a list of those common species which were identified on the site or which have been observed in the region by biologists from RCA Associates, Inc.



## **REGULATORY CONTEXT**

The following provides a summary of federal and state regulatory jurisdiction over biological and wetland resources. Although most of these regulations do not directly apply to the site, given the general lack of sensitive resources, they provide important background information.

### **Federal Endangered Species Act**

The USFWS has jurisdiction over federally listed threatened and endangered plant and animal species. The federal Endangered Species Act (ESA) and its implementing regulations prohibit the take of any fish or wildlife species that is federally listed as threatened or endangered without prior approval pursuant to either Section 7 or Section 10 of the ESA. ESA defines “take” as “harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.” Federal regulation 50CFR17.3 defines the term “harass” as an intentional or negligent act that creates the likelihood of injuring wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns such as breeding, feeding, or sheltering (50CFR17.3). Furthermore, federal regulation 50CFR17.3 defines “harm” as an act that either kills or injures a listed species. By definition, “harm” includes habitat modification or degradation that actually kills or injures a listed species by significantly impairing essential behavior patterns such as breeding, spawning, rearing, migrating, feeding, or sheltering (50CFR217.12).

Section 10(a) of the ESA establishes a process for obtaining an incidental take permit that authorizes non federal entities to incidentally take federally listed wildlife or fish. Incidental take is defined by ESA as take that is “incidental to, and not the purpose of, the carrying out of another wise lawful activity.” Preparation of a habitat conservation plan, generally referred to as an HCP, is required for all Section 10(a) permit applications. The USFWS and National Oceanic and Atmospheric Administration’s National Marine Fisheries Service (NOAA Fisheries Service) have joint authority under the ESA for administering the incidental take program. NOAA Fisheries Service has jurisdiction over anadromous fish species and USFWS has jurisdiction over all other fish and wildlife species.

Section 7 of the ESA requires all federal agencies to ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of any species listed under the ESA, or result in the destruction or adverse modification of its habitat. Federal agencies are also required

to minimize impacts to all listed species resulting from their actions, including issuance or permits or funding. Section 7 requires consideration of the indirect effects of a project, effects on federally listed plants, and effects on critical habitat (ESA requires that the USFWS identify critical habitat to the maximum extent that it is prudent and determinable when a species is listed as threatened or endangered). This consultation results in a Biological Opinion prepared by the USFWS stating whether implementation of the HCP will result in jeopardy to any HCP Covered Species or will adversely modify critical habitat and the measures necessary to avoid or minimize effects to listed species.

Although federally listed animals are legally protected from harm no matter where they occur, Section 9 of the ESA provides protection for endangered plants by prohibiting the malicious destruction on federal land and other “take” that violates State law. Protection for plants not living on federal lands is provided by the California Endangered Species Act.

### **California Endangered Species Act**

CDFW has jurisdiction over species listed as threatened or endangered under Section 2080 of the California Fish and Wildlife Code. Section 2080 prohibits the take of a species listed by CDFW as threatened or endangered. The state definition of take is similar to the federal definition, except that Section 2080 does not prohibit indirect harm to listed species by way of habitat modification. To qualify as take under the state ESA, an action must have direct, demonstrable detrimental effect on individuals of the species. Impacts on habitat that may ultimately result in effects on individuals are not considered take under the state ESA but can be considered take under the federal ESA.

Proponents of a project affecting a state-listed species must consult with CDFW and enter into a management agreement and take permit under Section 2081. The state ESA consultation process is similar to the federal process. California ESA does not require preparation of a state biological assessment; the federal biological assessment and the CEQA analysis or any other relevant information can provide the basis for consultation. California ESA requires that CDFW coordinate consultation for joint federally listed and state-listed species to the extent possible; generally, the state opinion for the listed species is brief and references provisions under the federal opinion.

### **Clean Water Act, Section 404**

The COE and the U.S. Environmental Protection Agency regulate the placement of dredged or fill material into “Waters of the United States” under Section 404 of the Clean Water Act. Waters of the United States include lakes, rivers, streams, and their tributaries, and wetlands. Wetlands are defined for regulatory purposes as “areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions” (33 Code of Federal Regulations [CFR] 328.3, 40 CFR 230.3).

The COE may issue either individual permits on a case-by-case basis or general permits on a program level. General permits are pre-authorized and are issued to cover similar activities that are expected to cause only minimal adverse environmental effects. Nationwide permits (NWP’s) are general permits issued to cover particular fill activities. All NWP’s have general conditions that must be met for the permits to apply to a particular project, as well as specific conditions that apply to each NWP.

### **Clean Water Act, Section 401**

Section 401 of the Clean Water Act requires water quality certification and authorization of placement of dredge or fill material in wetlands and Other Waters of the United States. In accordance with Section 401 of the Clean Water Act, criteria for allowable discharges into surface waters have been developed by the State Water Resources Control Board, Division of Water Quality. As such, proponents of any new project which may impair water quality as a result of the project are required to create a post construction stormwater management plan to insure offsite water quality is not degraded. The resulting requirements are used as criteria in granting National Pollution Discharge Elimination System (NPDES) permits or waivers, which are obtained through the Central Valley Regional Water Quality Control Board (RWQCB). Any activity or facility that will discharge waste (such as soils from construction) into surface waters, or from which waste may be discharged, must obtain an NPDES permit or waiver from the RWQCB. The RWQCB evaluates an NPDES permit application to determine whether the proposed discharge is consistent with the adopted water quality objectives of the basin plan.

### **California Fish and Wildlife Code, Sections 1600-1616**

Under the California Fish and Wildlife Code, Sections 1600-1616 CDFW regulates projects that divert, obstruct, or change the natural flow or bed, channel, or bank of any river, stream, or lake. Proponents of such projects must notify CDFW and enter into a streambed alteration agreement with them.

Section 1602 of the California Fish and Wildlife Code requires a state or local government agency, public utility, or private entity to notify CDFW before it begins a construction project that will: (1) divert, obstruct, or change the natural flow or the bed, bank, channel, or bank of any river, stream, or lake; (2) use materials from a streambed; or (3) result in the disposal or deposition of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into any river, stream, or lake. Once the notification is filed and determined to be complete, CDFW issues a streambed alteration agreement that contains conditions for construction and operations of the proposed project.

### **California Fish and Wildlife Code, Section 3503.5**

Under the California Fish and Wildlife Code, Section 3503.5, it is unlawful to take, possess, or destroy any birds in the orders Falconiformes (hawks, eagles, and falcons) or Strigiformes (owls). Take would include the disturbance of an active nest resulting in the abandonment or loss of young.

### **Migratory Bird Treaty Act**

The federal Migratory Bird Treaty Act (MBTA) prohibits the taking, hunting, killing, selling, purchasing, etc. of migratory birds, parts of migratory birds, or their eggs and nests. As used in the MBTA, the term “take” is defined as “to pursue, hunt, shoot, capture, collect, kill, or attempt to pursue, hunt, shoot, capture, collect, or kill, unless the context otherwise requires.” Most bird species native to North America are covered by this act.

### **Sensitive Natural Communities**

The California Office of Planning and Research and the Office of Permit Assistance (1986) define project effects that substantially diminish habitat for fish, wildlife, or plants, or that disrupt or divide the physical arrangement of an established community as significant impacts under CEQA.

This definition applies to certain natural communities because of their scarcity and ecological values and because the remaining occurrences are vulnerable to elimination. For this study, the term “sensitive natural community” includes those communities that, if eliminated or substantially degraded, would sustain a significant adverse impact as defined under CEQA. Sensitive natural communities are important ecologically because their degradation and destruction could threaten populations of dependent plant and wildlife species and significantly reduce the regional distribution and viability of the community. If the number and extent of sensitive natural communities continue to diminish, the status of rare, threatened, or endangered species could become more precarious, and populations of common species (i.e., not special status species) could become less viable. Loss of sensitive natural communities also can eliminate or reduce important ecosystem functions, such as water filtration by wetlands and bank stabilization by riparian woodlands for example.

### **Protected Plants**

The California Desert Native Plant Act was passed in 1981 to protect non-listed California desert native plants from unlawful harvesting on both public and privately-owned lands. Harvest, transport, sale, or possession of specific native desert plants is prohibited unless a person has a valid permit. The following plants are under the protection of the California Desert Native Plants Act:

- Dalea spinosa (smoketree)
- All species of the genus Prosopis (mesquites)
- All species of the family Agavaceae (century plants, nolinias, yuccas)
- All species of Cactus
- Creosote Rings, ten feet in diameter or greater
- All Joshua Trees

The project would be required to comply with the County of San Bernardino Desert Native Plant Protection Ordinance. The removal of any trees listed under Section 88.01.060 would be required to comply with Section 88.01.050, which requires the project applicant to apply for a Tree or Plant Removal Permit prior to removal from the project site.