Appendix C

### Biological Resources Assessment &

Coachella Valley Multiple Species Habitat Conservation Plan Compliance Report

for the

Thermal Ranch Development Project

prepared by

WSP USA Environment & Infrastructure, Inc., September 22, 2022.



### DRAFT THERMAL RANCH DEVELOPMENT PROJECT Assessor's Parcel Numbers 751-020-002, 751-020-003, 751-020-006, and 751-020-007

Biological Resources Assessment & Coachella Valley Multiple Species Habitat Conservation Plan Compliance Report

#### THERMAL, RIVERSIDE COUNTY, CALIFORNIA



Prepared for: Terra Nova Planning and Research, Inc. 42635 Melanie Place, Suite 101 Palm Desert, CA 92211 Tel: (760) 341-4800 FAX: (760) 341-4455 Contact: Nicole Criste E-mail: ncriste@terranovaplanning.com

Prepared by: WSP USA Environment & Infrastructure, Inc. 1845 Chicago Avenue, Suite D Riverside, CA 92507 (951) 369-8060 WSP #322520134

> Principal Field Investigator: Nathan Moorhatch

> > Report Author: Nathan Moorhatch

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### 1.0 INTRODUCTION

At the request of Terra Nova Planning & Research (Terra Nova), this biological resource assessment report (BRAR) was prepared by WSP USA Environment & Infrastructure Inc. (WSP) for the proposed Thermal Ranch Development Project (project site/project), located in the unincorporated area of Thermal, Riverside County, California. Information contained herein is intended to be used for compliance with the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP), California Environmental Quality Act (CEQA), as well as federal and California Endangered Species Acts.

### 2.0 PROJECT LOCATION / DESCRIPTION

MSA Consulting is preparing the Specific Plan for a proposed residential development on an approximately 622-acre project site located between 62<sup>nd</sup> Avenue to the north, 64<sup>th</sup> Avenue to the south, Harrison Street to the west, and Tyler Street to the east in Thermal, California. It lies between approximately one and two miles south-southwest of the Jacqueline Cochrane Regional Airport (Appendix A – Figure 1). The project proposal includes low, medium, and high-density residential housing. It also proposes inclusion of horse stables, grazing, and training areas, a golf course, and a small lake to be used for recreational purposes. The proposed project site is located on agricultural land that has been plowed and is under partial irrigation, but no crops were present during the September 2022 site survey. Much of the acreage appears to be fallow and consists of areas of sparse herbaceous weedy plant growth, other areas appeared to be completely barren. Five large, open-sided buildings were present near the center of the property, presumably for the storage and transport of hay or other crops when present, but otherwise no permanent infrastructure was present on the site. The project site is surrounded by agricultural lands (including date palm groves) to the north; additional agricultural lands, low density residential development, and equestrian paddocks to the east; and fallow land to the south and west. The currently undeveloped lands to the south and west show evidence of former agricultural use. Specifically, the project site is located within Section 5; Township 7 South; Range 8 East as shown on the United States Geological Survey (USGS) Valerie, California, 7.5-minute topographic quadrangle (Appendix A – Figure 2). The geographic coordinates near the approximate center of the project area are 33°35'27.84" north latitude and 116°10'21.49" west longitude. The elevation of the project site ranges from approximately -132 to -157 feet below mean sea level.

### 3.0 REGULATORY FRAMEWORK

#### 3.1 Federal

*Endangered Species Act* (ESA) – The United States Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service are the designated federal agencies accountable for administering the ESA. The ESA defines species as "endangered" or "threatened" and provides regulatory protection at the federal level.

- Section 9 of the ESA prohibits the "take" of listed (i.e., endangered or threatened) species. The ESA's definition of take is "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct." Recognizing that take cannot always be avoided, Section 10(a) includes provisions for take that is incidental to, but not the purpose of, otherwise lawful activities. Specifically, Section 10(a) (1) (A) permits (authorized take permits) are issued for scientific purposes. Section 10(a) (1) (B) permits (incidental take permits) are issued for the incidental take of listed species that does not jeopardize the species.
- Section 7 (a) (2) requires federal agencies to evaluate the proposed project with respect to listed or proposed listed, species and their respective critical habitat (if applicable). Federal

agencies must employ programs for the conservation of listed species and are prohibited from authorizing, funding, or carrying out any action that would jeopardize a listed species or destroy or modify its "critical habitat."

As defined by the ESA, "individuals, organizations, states, local governments, and other nonfederal entities are affected by the designation of critical habitat only if their actions occur on federal lands, require a federal permit, license, or other authorization, or involve federal funding.

Section 10(a) of the ESA authorizes the issuance of incidental take permits and establishes standards for the content of habitat conservation plans (see Section 3.3 below).

*Migratory Bird Treaty Act* (MBTA) – Treaties signed by the U.S., Great Britain, Mexico, Japan, and the countries of the former Soviet Union make it unlawful to pursue, capture, kill, and/or possess, or attempt to engage in any such conduct to any migratory bird, nest, egg or parts thereof listed in the document. As with the ESA, the MBTA also allows the Secretary of the Interior to grant permits for the incidental take of these protected migratory bird species.

National Environmental Policy Act (NEPA) – If portions of a proposed project could fall under the jurisdiction of a federal agency (i.e., U.S. Bureau of Reclamation, U.S. Army Corps of Engineers) they are subject to environmental review pursuant to NEPA. NEPA establishes certain criteria that must be adhered to for any project that is "financed, assisted, conducted or approved" by a federal agency. The federal lead agency is required to "determine whether the proposed action will significantly affect the quality of the human environment."

Section 404 of the Clean Water Act – This section of the Clean Water Act, administered by the U.S. Army Corps of Engineers (USACE), regulates the discharge of dredged and fill material into "waters of the United States." The USACE has created a series of nationwide permits that authorize certain activities within waters of the U.S. provided that the proposed activity does not exceed the impact threshold of 0.5 acre for nationwide permits, takes steps to avoid impacts to wetlands and other designated U.S. waters where practicable, minimizes potential impacts to wetlands, and provides compensation for any remaining, unavoidable impacts through activities to restore or create wetlands. For projects that exceed the threshold for nationwide permits, individual permits under Section 404 can be issued. An inspection of the project site to determine presence or absence of potential jurisdictional wetlands and waters was conducted during the assessment for this project, none were found.

### 3.2 State

*California Endangered Species Act* (CESA) – This legislation is similar to the federal ESA, but it is administered by the California Department of Fish and Wildlife (CDFW – formerly Department of Fish and Game). The CDFW is authorized to enter into "memoranda of understanding" with individuals, public agencies, and other institutions to import, export, take, or possess state-listed species for scientific, educational, or management purposes. CESA prohibits the take of state-listed species except as otherwise provided in state law. Unlike the federal ESA, the CESA applies the take prohibitions to species currently petitioned for state-listing status (candidate species). State lead agencies are required to consult with CDFW to ensure that actions are not likely to jeopardize the continued existence of any state-listed species or result in the destruction or degradation of occupied habitat.

*California Environmental Quality Act* (CEQA) – The basic goal of CEQA is to maintain a highquality environment now and in the future. The specific goals are for California's public agencies to:

- 1) identify the significant environmental effects of their actions; and, either
- 2) avoid those significant environmental effects, where feasible; or

3) mitigate those significant environmental effects, where feasible.

CEQA applies to "projects" proposed to be undertaken or requiring approval by state and local government agencies. Projects are activities that have the potential to have a physical impact on the environment and may include the enactment of zoning ordinances, the issuance of conditional use permits and the approval of tentative subdivision maps. Where a project requires approvals from more than one public agency, CEQA requires one of these public agencies to serve as the "lead agency."

A "lead agency" must complete the environmental review process required by CEQA. The most basic steps of the environmental review process are to:

- 4) Determine if the activity is a "project" subject to CEQA.
- 5) Determine if the "project" is exempt from CEQA.
- 6) Perform an Initial Study to identify the environmental impacts of the project and determine whether the identified impacts are "significant". Based on its findings of "significance", the lead agency prepares one of the following environmental review documents:
  - a) Negative Declaration if it finds no "significant" impacts.
  - b) Mitigated Negative Declaration if it finds "significant" impacts but revises the project to avoid or mitigate those significant impacts.
  - c) Environmental Impact Report (EIR) if it finds "significant" impacts.

While there is no ironclad definition of "significance", Article 5 of the State CEQA Guidelines (California Natural Resources Agency 2014) provides criteria to lead agencies in determining whether a project may have significant effects.

The Native Plant Protection Act (NPPA) – The NPPA includes measures to preserve, protect, and enhance rare and endangered native plant species. Definitions for "rare and endangered" are different from those contained in CESA. However, the list of species afforded protection in accordance with the NPPA includes those listed as rare and endangered under CESA. NPPA provides limitations on take as follows: "no person will import into this state, or take, possess, or sell within this state" any rare or endangered native plants, except in accordance with the provisions outlined in the act. If a landowner is notified by CDFW, pursuant to section 1903.5 that a rare or endangered plant is growing on their property, the landowner shall notify CDFW at least 10 days prior to the changing of land uses to allow CDFW to salvage the plants.

*Natural Community Conservation Planning (NCCP) Program* – A NCCP, which is managed by the CDFW, is intended to conserve multiple species and their associated habitats, while also providing for compatible use of private lands. Through local planning, the NCCP planning process is designed to provide protection for wildlife and natural habitats before the environment becomes so fragmented or degraded by development that species listing are required under CESA. Instead of conserving small, often isolated "islands" of habitat for just one listed species, agencies, local jurisdictions, and/or other interested parties have an opportunity through the NCCP to work cooperatively to develop plans that consider broad areas of land for conservation that would provide habitat for many species. Partners enroll in the programs, and by mutual consent, areas considered to have high conservation priorities or values are set aside and protected from development. Partners may also agree to study, monitor, and develop management plans for these high value "reserve" areas. The NCCP provides an avenue for fostering economic growth by allowing approved development in areas with lower conservation value. The project site is in a combined Habitat Conservation Plan (HCP) / NCCP, see Section 3.3.

Sections 1600-1603 of the State Fish and Game Code – The California Fish and Game (Wildlife) Code, pursuant to Sections 1600 through 1603, regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or

wildlife resources. Under state code, CDFW jurisdiction is assessed in the field based on one, or a combination, of the following criteria:

- 7) At minimum, intermittent and seasonal flow through a bed or channel with banks and that also supports fish or other aquatic life.
- 8) A watercourse having a surface or subsurface flow regime that supports or that has supported riparian vegetation.
- 9) Hydrogeomorphically distinct top-of-embankment to top-of-embankment limits.
- 10) Outer ground cover and canopy extents of, typically, riparian associated vegetation species that would be sustained by surface and/or subsurface waters of the watercourse.

The CDFW requires that public and private interests apply for a "Streambed Alteration Agreement" for any project that may impact a streambed or wetland. The CDFW has maintained a "no net loss" policy regarding impacts to streams and waterways and requires replacement of lost habitats on at least a 1:1 ratio.

Section 2081 of the State Fish and Game Code – Under Section 2081 of the California Fish and Game Code, the CDFW authorizes individuals or public agencies to import, export, take, or possess state endangered, threatened, or candidate species in California through permits or memoranda of understanding. These acts, which are otherwise prohibited, may be authorized through permits or "memoranda of understanding" if (1) the take is incidental to otherwise lawful activities, (2) impacts of the take are minimized and fully mitigated, (3) the permit is consistent with regulations adopted in accordance with any recovery plan for the species in question, and (4) the applicant ensures suitable funding to implement the measures required by the CDFW. The CDFW shall make this determination based on the best scientific information reasonably available and shall include consideration of the species' capability to survive and reproduce.

Section 3505.5 of the State Fish and Game Code – This section makes it unlawful to take, possess, or destroy any birds in the order Falconiformes or Strigiformes (birds-of-prey, e.g.: owls, hawks, eagles, etc.) or to take, possess, or destroy the nest or eggs of any bird-of-prey.

*Clean Water Act* – The Regional Water Quality Control Board (RWQCB) regulates activities pursuant to Section 401(a)(1) of the Clean Water Act (CWA). Section 401 of the CWA specifies that certification from the State is required for any applicant requesting a federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities that may result in any discharge into navigable waters. Through the Porter Cologne Water Quality Control Act, the RWQCB asserts jurisdiction over Waters of the State of California (WSC) which is generally the same as WUS but may also include isolated waterbodies. The Porter Cologne Act defines WSC as "surface water or ground water, including saline waters, within the boundaries of the state".

#### 3.3 Coachella Valley Multiple Species Habitat Conservation Plan

Finalized in October 2008, and amended in 2016, the CVMSHCP is a comprehensive regional plan that addresses the conservation needs of 27 species of native flora and fauna and 24 natural vegetation communities occurring throughout the Coachella Valley region of western Riverside County, California. Permits for the CVMSHCP were issued by the CDFW on September 9, 2008 and by the United States Fish and Wildlife Service (USFWS) on October 1, 2008 (TE104604-0). Managed by the Coachella Valley Conservation Commission (CVCC), CVMSHCP participants include Riverside County, the Cities of Cathedral City, Coachella, Desert Hot Springs, Indian Wells, Indio, La Quinta, Palm Desert, Palm Springs, Rancho Mirage, as well as the Coachella Valley Association of Governments (CVAG), Coachella Valley Water District, Imperial Irrigation

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District, Mission Springs Water District and the California Department of Transportation (CVAG 2008, 2016).

The CVMSHCP serves two primary purposes: Balancing environmental protection and economic development objectives in the CVMSHCP planning area and simplifying compliance with endangered species related laws. The CVMSHCP accomplishes this by conserving unfragmented habitat to permanently protect and secure viable populations of the covered 27 species within the planning area. The covered species include those plants and animals that are either currently listed as threatened or endangered, are proposed for listing, or are believed by an appointed Scientific Advisory Committee, USFWS and CDFW, to have a high probability of being proposed for listing in the future if not conserved by the CVMSHCP. The goal of the CVMSHCP is to meet the requirements of the ESA and CESA, while at the same time allowing for the economic growth (land development) within the plan area without significant delay or hidden costs. Under the CVMSHCP, land development/mitigation fees are collected from all new development projects occurring in the plan area. The purpose of this fee is to support the assembly of a preserve system for the covered species and natural vegetation communities within areas identified as having high conservation value (CVAG 2008).

#### 4.0 METHODS

#### 4.1 Literature Review

In preparation for the field surveys, a literature search was conducted to identify special status biological resources known from the vicinity of the project site. In the context of this report, and for the purpose of this assessment, vicinity is defined as areas within a 5-mile radius of the project site.

The literature search included a review of the following documents:

- California Natural Diversity Data Base (CNDDB) RareFind 5 (CDFW 2022a)
- Special Animals List (CDFW 2022)
- California Native Plant Society's (CNPS) Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2022a)
- CVMSHCP (CVAG 2008)
- United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2019. Web Soil Survey
- USGS 7.5' Indio, Martinez Mtn., Rabbit Peak, Valerie, and Mecca, Calif. quadrangles (USGS 1972 2015)
- USFWS ECOS-IPaC website: "List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project".

Scientific nomenclature for this document follows standard reference sources: For plant communities, CVMSHCP (CVAG 2008), Sawyer et. al (2009), and/or Holland (1986); for flora, Jepson eFlora (2022) and the USDA NRCS PLANTS Database (2022); for amphibians, reptiles, and mammals, CDFW (2016); and for birds, California Bird Records Committee (2022).

#### 4.2 Field Assessment

The field assessment was conducted on 12 September 2022 between 10:40 and 13:21 by WSP Senior Wildlife Biologist Nathan Moorhatch. The sky was cloudy (~98% clouds), with low wind (0 - 3 mph), and warm to hot temperatures (85°F to 91°F). On-site suitable habitat (or lack thereof) was assessed based on the presence of constituent habitat elements (e.g., soils, vegetation and topography) characteristic of the potentially occurring special status biological resources determined by the literature review. The site was assessed on foot and by vehicle to record

pertinent field data and current site conditions. Covering the entire site on foot was not appropriate since the majority of the site consists of plowed, barren agricultural land (see Appendix C: Site Photographs). Adjacent undeveloped areas within an approximate 150-meter (~500-foot) buffer zone that were unfenced and unsigned (i.e., not posted with "No Trespassing" and/or "Private Property") were also assessed for burrowing owl (Athene cunicularia). This area was limited to vacant land located south and west of the project site. The site is surrounded by low density residential development, agricultural land, and equestrian paddocks to the east; active date palm groves and agricultural lands to the north; and fallow, former agricultural lands to the west and south that appear to have lain fallow for quite some time and have revegetated with Saltbush Scrub communities to varying degrees. Inaccessible areas were scanned for burrowing owl habitat and sign (i.e., burrows & perches with whitewash) with binoculars. All on-site flora and fauna observed or otherwise detected (e.g., vocalizations, presence of scat, tracks, and/or bones) during the assessment were recorded in field notes and are included in Appendix B. General weather and site conditions were also recorded at the beginning and end of the survey. Temperatures and wind speeds were recorded with a handheld Kestrel 2000 anemometer. Percent cloud cover was visually estimated. The project site is also surrounded by paved roads on three sides: 62<sup>nd</sup> Avenue on the north, Tyler Street on the east, and Harrison Street on the west. The south side is bordered by a dirt access road that is an unpaved extension of 64<sup>th</sup> Avenue.

### 5.0 RESULTS

The proposed project site is surrounded by development, primarily active and former agricultural development to the north, south, east, and west. South and west of the project site are fallow agricultural lands that are transitioning to Saltbush Scrub communities, but still show signs of former disturbance and agricultural use. The entire project site appears to have been routinely disturbed and is mostly barren, disturbed land with a sparse growth of weedy plants scattered among some portions of the site that currently appear to be fallow (not used for active agriculture). No drainage features occur within the project site. Representative site photos are included in Appendix C.

### 5.1 Coachella Valley Multiple Species Habitat Conservation Plan

The entire project is located within the CVMSHCP fee area but is not within a conservation area. The southwestern corner of the project site is located approximately 2.21 miles northeast of the Santa Rosa and San Jacinto Mountains Conservation Area (Figure 6, Appendix A). The development of the project site will have no effect on the Santa Rosa and San Jacinto Mountains Conservation Area.

### 5.2 Weather Conditions

Weather conditions during the field assessment were cloudy and warm. Skies were cloudy (~98% cloud cover). Temperatures ranged from 85 to 91 degrees Fahrenheit. Winds were calm with wind speeds measured between 0 to 3 miles per hour.

### 5.3 Topography and Soils

The proposed project alignment is relatively flat. Five soil types occur on the project site: 1) Gilman fine sandy loam, wet, 0 to 2 percent slopes (GcA); 2) Indio very fine sandy loam, wet (It); 3) Indio fine sandy loam, wet (Ir); 4) Salton silty clay loam (Sb); and 5) Gilman silt loam, wet, 0 to 2 percent slopes (GfA), (USDA, NRCS. 2019) (Appendix A - Figure 4).

Gilman series consists of very deep, well drained soils that formed in stratified stream alluvium that typically occur on flood plains and alluvial fans. Gilman soils are on flood plains and alluvial

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fans. Gilman soils were historically, and still are used for irrigated cropland and livestock grazing (USDA, NRCS. 2019).

Indio soil series consist of "very deep, well or moderately well drained soils formed in young calcareous, silty mixed alluvium derived from mixed rock sources. They are intermittently moist soils typically found on alluvial fans, lacustrine basins and flood plains that were historically, and still are used for irrigated cropland and livestock grazing (USDA, NRCS. 2019).

Salton soil series are "somewhat poorly drained soils formed in alluvium". Slopes are 0 to 2 percent. Elevations range from 50 feet above to 230 feet below sea level. Native vegetation on these soils often include creosote, mesquite, arrowweed, iodinebush, and saltbush. These soils are used for cotton, alfalfa hay, irrigated pasture, truck crops, dates, and recreation.

The field assessment confirmed that on-site soils and substrates are typical of this area and consistent with the soil survey. Much of the area on and adjacent to the project site has been heavily altered for agricultural development, road right-of-way maintenance, and limited residential and livestock use.

Despite the "wet" designation of the Gilman soil, the site does not contain springs, seeps, or other natural wet areas. It also lacks active sand dunes, drifts, rock outcrops, significant rocky areas, and clay lenses.

#### 5.4 Vegetation

The entire project site is disturbed. Google Earth imagery shows the site under active agricultural use back to at least 1985 and continuing to the present. Vegetation present immediately offsite to the south and west of the site consists of species representative of *Atriplex lentiformis* and *Suaeda moquinii* Shrubland Alliances. There is no native (or even nonnative) plant community present on the Thermal Ranch project site. Although much of the project site is barren, plowed substrate, there are patches of low-growing weedy herbaceous plants scattered sparsely through some of the fallow agricultural field subdivisions. This growth does not represent a fully developed vegetation community. No trees are present on the site.

A total of sixteen (16) plant species were identified growing on the project site during the site survey (Appendix B). These included a mixture of native and nonnative and/or weedy species. Of the 16 species observed, seven were nonnative species (44%). Some of the plant species identified within the project site included big saltbush (*Atriplex lentiformis*), western sea-purslane (*Sesuvium verrucosum*), white pigweed (*Amaranthus albus*), puncture vine (*Tribulus terrestris*), saltcedar [seedlings] (*Tamarix ramosissima*), yellow nutsedge (*Cyperus esculentus*), and Bermuda grass (*Cynodon dactylon*).

#### 5.5 Wildlife

Vertebrate wildlife directly observed and/or detected otherwise (e.g., scat, bones, tracks, feathers, burrows, etc.) during the assessment was not diverse or abundant, limited to just five species (two of which are nonnative introduced species), all of which are common to the region (Appendix B). This very low number of species observed may be attributable to the general lack of habitat and highly disturbed nature of the project site. Wildlife observed included four birds and one amphibian: Rio Grande leopard frog (*Lithobates berlandieri*), Eurasian collared-dove (*Steptopelia decaocto*), common raven (*Corvus corax*), song sparrow (*Melospiza melodia*), and great blue heron [just offsite] (*Ardea herodias*). The number of species detected does not represent the total number of species that may occur on the project site. Brief, one visit assessments are limited by the seasonal timing and short duration of the survey period as well as the nocturnal, fossorial and/or migratory habits of many animals. The highly disturbed condition of the project site reduces the potential for use by most special status species, as many of these require higher quality and/or

more extensive areas of natural habitats. Some are habitat specialists requiring aeolian deposits, which are not currently present on the project site. No actively nesting birds were detected on or adjacent to the site during the assessment. No old, inactive bird nests were observed on or adjacent to the site.

#### 5.6 Special Status Biological Resources

Some plant and/or animal taxa are designated as having special status due to declining populations, limited geographic distributions and/or vulnerability to climate change, habitat loss and/or fragmentation. Some have been listed as threatened or endangered by the USFWS or by the CDFW and are protected by the federal and state ESAs. Others have been identified, and are managed as sensitive by the USFWS, CDFW, or by private conservation organizations, including the CNPS, but have not been formally listed as threatened or endangered. Impacts to such species can still be considered significant under the CEQA, if not avoided, minimized and/or mitigated by specific project design and implementation.

The literature review and field visit resulted in a list of 62 special status biological resources which potentially occur on the project site and greater project vicinity (4 to 5-mile radius). Tables 1-3 provide a summary of these resources, their current conservation status, habitat associations and potential to occur on the project site. No special status species were observed on-site during the assessment (Appendix B), but a great blue heron (rookery sites considered sensitive), was observed just to the south of the site.

Species	Protective Status	Habitat	Flowering Period	Occurrence Probability
<i>Abronia villosa var. aurita</i> Chaparral sand-verbena	F: ND C: ND CNPS List: 1B.1 State Rank: S2 CVMSHCP: No	Chaparral, coastal scrub, desert dunes; found in sandy areas. 225 to 4,800 feet.	(January) March - September	Absent Habitat lacking, site below known elevational range of species
<i>Ambrosia monogyra</i> singlewhorl burrobush	F: ND C: ND CNPS List: 2B.2 State Rank: S2 CVMSHCP: No	Usually on sandy soils in desert washes, floodplains, arroyos, etc., below 1, 640 feet in California.	August - November	Absent Habitat not present, nearest CNDDB record is from 1922.
<i>Astragalus lentiginosus var. coachellae</i> Coachella Valley milk- vetch	F: END C: ND CNPS List: 1B.2 State Rank: S1 CVMSHCP: Yes	Annual/Perennial herb found in sandy flats, washes, alluvial fans, sand field, dunes and dune edges, at 130 to 2,150 feet, a CA endemic.	February - May	Absent Habitat lacking, site below known elevational range of species.
<i>Astragalus preussii var.laxiflorus</i> Lancaster milk-vetch	F: ND C: ND CNPS List: 1B.1 State Rank: S1 CVMSHCP: No	Alkaline clay flats, gravelly/sandy washes, Chenopod scrub. 2,295 feet elevation	March - May	Absent Habitat not present, site is well below known elevational range of species.
<i>Astragalus sabulonum</i> gravel milk-vetch	F: ND C: ND CNPS List: 2B.2 State Rank: S2 CVMSHCP: No	Sandy or gravelly flats, washes, and roadsides in desert dunes, Mojavean/Sonoran desert scrub between 195 – 3,050 feet in elevation.	February - June	Absent Habitat not present, site is below known elevational range of species.
<i>Astragalus tricarinatus</i> triple-ribbed milk-vetch	F: END C: ND CNPS List: 1B.2 State Rank: S2 CVMSHCP: Yes	Rocky slopes in canyons and boulder washes, often with creosote bush and brittlebush, between 1,475 – 3,905 feet in elevation.	February - May	Absent Habitat not present, site is below known elevational range of species.
<i>Ayenia compacta</i> California ayenia	F: ND C: ND CNPS List: 2B.3 State Rank: S3 CVMSHCP: No	Found on rocky slopes, in canyons, and gravelly/sandy washes between 490 and 3,595 feet in elevation.	March - April	Absent No habitat on-site, site below elevation range of species.
<i>Bursera microphylla</i> Little-leaf elephant tree	F: ND C: ND CNPS List: 2B.3 State Rank: S2 CVMSHCP: No	Very localized in southern California (known from around 20 occurrences) on arid, rocky slopes, washes, and canyon sides. Between 655 – 2,295 feet in elevation. In greater project area known from the western edge of the Sonoran desert (foothills of Santa Rosa Mtns. and other ranges).	June - July	Absent No habitat on-site, site is both below elevation range and species not known from the "valley floor". No trees on site.

# Table 1. Special Status Plants

Species	Protective Status	Habitat	Flowering Period	Occurrence Probability
<i>Ditaxis claryana</i> Glandular ditaxis	F: ND C: ND CNPS List: 2B.2 State Rank: S2 CVMSHCP: No	Mojavean Desert scrub, Sonoran Desert scrub; found in sandy areas. 0 to 1,395 feet.	October - March	Absent Site is highly disturbed, no Ditaxis present and site is slightly below known elevational range of species.
<i>Eriastrum harwoodii</i> Harwood's eriastrum	F: ND C: ND CNPS List: 1B.2 State Rank: S2 CVMSHCP: No	Associated with desert dunes (sandy soils) between 410 – 3,000 feet in elevation.	March-June	Absent Site is highly disturbed, no dunes on site, no <i>Eriastrum</i> present and site is below known elevational range of species
<i>Funastrum crispum</i> wavyleaf twinvine	F: ND C: ND CNPS List: 2B.2 State Rank: S1 CVMSHCP: No	Grows in chaparral and pinyon-juniper woodland habitats between 3,820 – 6,035 feet elevation.	May - August	Absent Habitat not present, site is below elevation range of species
<i>Jaffueliobryum raui</i> Rau's jaffueliobryum moss	F: ND C: ND CNPS List: 2B.3 State Rank: S2 CVMSHCP: No	Dry openings, rock crevices, dry limestone or sandstone substrates in alpine dwarf scrub, chaparral, and Mojavean/Sonoran desert scrubs between 1,400 and 6,600 feet elevation.	N/A (mosses are non- flowering plants)	Absent No habitat on-site, site also far below elevational range of species.
<i>Leptosiphon floribundus</i> ssp. hallii Santa Rosa Mtns. leptosiphon	F: ND C: ND CNPS List: 1B.3 State Rank: S1S2 CVMSHCP: No	Desert canyons in Sonoran desert scrub between 3,280 – 6,560 feet in elevation.	May-July(Nov)	Absent No habitat on-site, site also far below elevational range of species.
<i>Nemacaulis denudata</i> var. <i>gracilis</i> slender cottonheads	F: ND C: ND CNPS List: 2B.2 State Rank: S2 CVMSHCP: No	Sandy areas in coastal and desert areas, saltbush scrub, creosote bush scrub, and coastal grasslands between 165 and 1,310 feet elevation	(March) - May	Absent No habitat on-site, site also below elevational range of species.
<i>Petalonyx linearis</i> narrow-leaf sandpaper- plaInt	F: ND C: ND CNPS List: 2B.3 State Rank: S3? CVMSHCP: No	Mojavean/Sonoran desert scrub in sandy or rocky canyons between -80 – 3,660 feet.	Mainly March – May, but can bloom year-round	Absent No habitat on-site.
Phaseolus filiformis slender-stem bean	F: ND C: ND CNPS List: 2B.1 State Rank: S1 CVMSHCP: No	Gravelly washes bordered by rocky slopes vegetated with creosote bush scrub at around 400 feet elevation.	April	Absent No habitat on-site, site also below elevational range of species
<i>Senna covesii</i> Cove's cassia	F: ND C: ND CNPS List: 2B.2 State Rank: S3 CVMSHCP: No	Sandy desert washes and adjacent slopes in Sonoran desert scrub habitats, between 740 and 4,250 feet	Mar-Jun(Aug)	Absent No habitat on-site, site also below elevational range of species.

Species	Protective Status	Habitat	Flowering Period	Occurrence Probability
<i>Xylorhiza cognata</i> Mecca-aster	F: ND, BLM sensitive C: ND CNPS List: 1B.2 State Rank: S2 CVMSHCP: Yes	Grows on sandstone and clay substrates on steep canyon slopes between 65 and 1,000 feet elevation.	Jan - June	Absent No habitat on-site, site also below elevational range of species. Outside species' range.

## Table 2. Special Status Vegetation Communities

Community	Protective Status (F=Federal, C=California)	Occurrence Probability
Desert Fan Palm Oasis Woodland	F: ND C: ND State rank: S3.2 CVMSHCP: No	Absent No native palms on-site.

## Table 3. Special Status Wildlife

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
Invertebrates	-		
<i>Danaus plexippus</i> Monarch Butterfly	F: C C: CSC State Rank: S2S3 CVMSHCP: No	Can be found in a variety of areas where milkweed and flowering plants are present; milkweeds are necessary for breeding	Absent No milkweed present on-site. Insufficient nectar sources on-site.
<i>Euparagia unidentata</i> Algodones euparagia	F: ND C: ND State Rank: S1S2 CVMSHCP: No	Most records of this small wasp are from blow sand- associated habitats. Individuals have been collected from various small flowering annuals.	Absent Habitat not present on or adjacent to site. Closest known CNDDB record is from almost 8 miles NE of the project site.
<i>Juniperella mirabilis</i> juniper metallic wood- boring beetle	F: ND C: ND State Rank: S1 CVMSHCP: No	Larvae develop in juniper in the Santa Rosa Mtns. (and other ranges) in Southern California (specifically Pinyon Flats as the closest known record to the project site).	<b>Absent</b> Site is not located within range of species. Habitat not present on- site.

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability	
<i>Macrobaenetes valgum</i> Coachella giant sand treader cricket	F: ND C: ND State Rank: S1S2 CVMSHCP: Yes	Found in the sandy areas of the specialized sand dune ecosystem of Coachella Valley (aka "blow sand" habitat)	Absent Habitat lacking, site isolated from sand dune areas, site also likely not in range of species.	
<i>Oliarces clara</i> cheeseweed owlfly	F: ND C: ND State Rank: S2 CVMSHCP: No	Occur on or near bajadas, attracted to elevated topographic features when mating	<b>Absent</b> Habitat lacking	
<i>Trichinorhipis knulli</i> Knull's metallic wood- boring beetle	F: ND C: ND State Rank: S1 CVMSHCP: No	Restricted to southern California and has been encountered most often in the vicinity of Mountain Springs in Imperial County (just north of the Mexican border), where it breeds in dead branches of jojoba. Very few individuals have actually been observed in the field – most existing specimens have been reared from caged, infested branches	<b>Absent</b> Habitat lacking, no jojoba on or adjacent to site.	
Fish				
<i>Cyprinodon macularius</i> desert pupfish	F: END C: END State Rank: S1 CVMSHCP: Yes	Historically occurred in several springs, slow-moving streams, and seeps in the Salton Sink Basin as well as Colorado River backwaters and sloughs.	<b>Absent</b> No habitat present	
<i>Xyrauchen texanus</i> razorback sucker	F: END C: END State Rank: S1S2 CVMSHCP: No	Inhabits the Colorado River bordering Calfornia, adapted for fast currents but also needs quiet waters with sand/gravel/rocks for spawning.	<b>Absent</b> No habitat present, site not in species range.	
Amphibians				
<i>Batrachoseps major aridus</i> desert slender salamander	F: END C: END State Rank: S1 CVMSHCP: No	This subspecies is only known from Hidden Palm Cyn. and Guadalupe Creek in palm oasis, desert scrub and wash habitats. Site is not in species range and no habitat is present to support this salamander.	<b>Absent</b> No habitat on or adjacent to site, site not in species range (historically or currently)	
<i>Scaphiopus couchii</i> Couch's spadefoot	F: ND C: ND State Rank: S2 CVMSHCP: No	In California this species can be found in the vicinity of agricultural fields and rural residential, but usually remains underground for most of the year. Needs rain pools that last at least 7-8 days for reproduction. Tadpoles develop faster than any other North American anuran.	<b>Low</b> There is a 2007 CNDDB record from Mecca approx. 5 miles east/southeast of the project site.	
Reptiles				

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
<i>Gopherus agassizii</i> Desert tortoise	F: THR C: THR State Rank: S2S3 CVMSHCP: Yes	Found in desert environments with high plant diversity, digs burrows in the substate. Not found in areas of high human modification and development.	<b>Absent</b> Habitat lacking, site isolated from any adjacent habitat
<i>Phrynosoma mcallii</i> Flat-tailed horned lizard	F: ND C: CSC State rank: S2 CVMSHCP: Yes	Fine sand in desert washes and flats with vegetative cover and ants, generally below 600 feet elevation in Riverside, San Diego, and Imperial Counties.	<b>Absent</b> Habitat lacking, site isolated from sand sources.
<i>Uma inornata</i> Coachella Valley fringe- toed lizard	F: THR C: END State rank: S1 CVMSHCP: Yes	Sandy areas of the Coachella Valley (dunes and sand field habitats).	<b>Absent</b> Habitat not present, site isolated from sand sources
Birds (*birds covered by th	e CVMSHCP still car	nnot be directly impacted while ne	esting or in burrows)
<i>Buteo regalis</i> ferruginous hawk	F: MBTA C: WL State: S3S4 CVMSHCP: No	Golden eagles occupy the mountains and coastal areas of southern California and often nest in chaparral and oak woodland/savanna habitats and grassland amongst low rolling hill typified by diverse vegetation. Not common in true desert areas.	Nesting: Absent Does not nest in our area, winter visitors and migrants. Foraging: Low Favors open, fallow fields during its winter residency in southern California, exceptionally barren areas may not support enough prey base for this raptor.
<i>Ardea alba</i> great egret	F: MBTA C: ND State rank: S4 CVMSHCP: No	Applies to nesting colonies only. Nests can be up to 100 feet above ground (often over water) in or near the top of a large tree or shrub. Rarely nests on the ground or artificial platforms.	Nesting: Absent (suitable habitat not present, CNDDB records from greater project vicinity are from the former shore line of the Salton sea.) Foraging: Low (mainly adjacent to site)
<i>Ardea herodias</i> great blue heron	F: MBTA C: ND State: S4 CVMSHCP: No	Colonial nester in tall trees, sheltered marshy areas, and cliffsides. Rookery sites near various aquatic habitats.	Nesting: Absent Nesting habitat not present (cliffs, tall trees, etc. – also no nests observed adjacent to site) Foraging: Present Individual observed in marshy area adjacent to southeast corner of the site.
<i>Egretta thula</i> snowy egret	F: MBTA C: ND State rank: S4 CVMSHCP: No	Applies to nesting colonies only. Nest colonially in thick vegetation in isolated places including barrier islands, dredge-spoil islands, swamps, marshes.	Nesting: Absent (suitable habitat not present, CNDDB records from greater project vicinity are from the former shore line of the Salton sea.) Foraging: Low (mainly adjacent to site)

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
Nycticorax nycticorax black-crowned night heron	F: MBTA C: ND State rank: S4 CVMSHCP: No	Applies only to nesting colony of this species. A colony can have dozens of nests in a single tree. Usually in an area that is relatively safe from predators: island, swamp, or over water. Nesting colonies can persist for over 50 years.	<b>Nesting: Absent</b> (suitable habitat not present, CNDDB records from greater project vicinity are from the former shore line of the Salton sea.) <b>Foraging: Low</b> (mainly adjacent to site)
Plegadis chihi White-faced ibis	F: MBTA C: WL State rank: S3S4 CVMSHCP: No	Frequent shallow freshwater marshes, occasionally flooded agricultural fields. Need dense tule thickets for nesting with adjacent open shallow water.	Nesting: Absent (suitable habitat not present on site, CNDDB records from greater project vicinity are from the former shore line of the Salton sea. Potential breeding habitat adjacent to south edge of site.) Foraging: Low (mainly adjacent to site)
<i>Athene cunicularia</i> Burrowing Owl	F: MBTA, BCC C: SSC State: S3 CVMSHCP: Yes	Occupies open, dry grasslands, scrub habitats, agricultural, railroad rights-of- way, and margins of highways, golf courses, and airports. Utilizes ground squirrel burrows and man-made structures, such as earthen berms, cement culverts, cement, asphalt, and debris piles for nesting and shelter.	Nesting: Low/Absent No suitable burrows or burrow surrogates observed during site survey. Foraging habitat present, but no burrowing owl sign seen on site, however dispersing birds could utilize the site in the future. Closest CNDDB record is ~3.25 miles NE of the site, but is from 1927 and has been converted to residential development.
<i>Empidonax traillii extimus</i> Southwestern willow flycatcher	F: END C: END State: S1 CVMSHCP: Yes	Nests in large areas of riparian forests and woodlands	Nesting: Absent No suitable nesting habitat Foraging: Absent No suitable foraging habitat on-site.
<i>Falco mexicanus</i> Prairie falcon	F: MBTA C: WL State: S4 CVMSHCP: No	Another raptor that favors dry, open terrain for foraging, although smaller open areas adjacent to human development are not as commonly used. Usually nests on cliff ledges.	Nesting: Absent No suitable nesting habitat Foraging: Low Low quality foraging habitat on-site, not likely to occur except if moving through the area (rare).
<i>Polioptila melanura</i> Black-tailed gnatcatcher	F: MBTA C: WL State rank: S3S4 CVMSHCP: No	Nests in wooded desert wash habitat containing mesquite, palo verde, ironwood, and acacia. May also occur in areas with salt cedar, especially when adjacent to native wooded desert wash habitat. Also occurs in desert scrub habitat in winter.	<b>Nesting: Absent</b> No suitable habitat present <b>Foraging: Absent</b> Site is highly disturbed and barren.

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
<i>Pyrocephalus rubinus</i> Vermilion flycatcher	F: MBTA C: SSC State Rank: S2S3 CVMSHCP: No	Usually found near water in habitats including arid scrub, farmlands, golf courses, desert or savanna, and riparian woodlands	Nesting: AbsentSuitable habitat not present on site(potential south of site)Foraging: Absentsite is essentially treeless, notenough vegetation present tosupport foraging habitat for thisspecies. (Again, could forageadjacent to site).
<i>Rallus obsoletus yumanensis</i> Yuma Ridgway's (clapper) rail	F: END C: THR, FP State rank: S1S2 CVMSHCP: Yes	Well-developed marsh habitats of cattails and California bulrush. Also requires water depths varying from 6.5 cm to 20 cm.	Nesting: Absent No suitable nesting habitat onsite. Potential breeding habitat adjacent to southern edge of site. Foraging: Absent No suitable foraging habitat on-site, but potential habitat just offsite to south.
<i>Gelochelidon nilotica</i> gull-billed tern	F: MBTA C: SSC State rank: S1 CVMSHCP: No	Applies to nesting colony only. CNDDB record in general area is from 1993-1994 at the end of Johnson Street ~ 7.7 miles southeast of the project site. Birds were nesting on bare, dirt levee remnants with scattered bush seepweed.	Nesting: Absent (No nesting habitat present) Foraging: Absent (no habitat present on site, potential to forage in habitat adjacent to southern edge of site.)
<i>Rynchops niger</i> black skimmer	F: MBTA, BCC C: SSC State rank: S2 CVMSHCP: No	1994 CNDDB record is from the north end of the Salton Sea. Nests on gravel bars, low islets, and sandy beaches (usually unvegetated).	Nesting: Absent (No nesting habitat present) Foraging: Absent (no habitat present on site, usually requires more open water than is present in habitat adjacent to southern edge of site.)
<i>Toxostoma crissale</i> Crissal thrasher	F: MBTA, BLM S C: SSC State rank: S3 CVMSHCP: Yes*	Dense thickets of shrubs or low trees in desert riparian and desert wash habitats. Southeastern California to Texas and northern Mexico.	<b>Nesting: Absent</b> No nesting habitat present <b>Foraging: Absent</b> Same as above, site is largely barren
<i>Toxostoma lecontei</i> LeConte's thrasher	F: MBTA, BCC C: SSC State rank: S3 CVMSHCP: Yes	Resident of open desert wash, scrub, alkali scrub, succulent scrub habitats, nests in dense spiny shrubs and cacti in washes, usually within 2-8 feet of the ground.	Nesting: Absent No habitat present onsite. Foraging: Absent Same as above, site is almost devoid of vegetation.
<i>Icteria virens</i> Yellow-breasted chat	F: MBTA C: SSC State rank: S3 CVMSHCP: Yes	Riparian vegetation communities. The species nests in early successional riparian habitats with a well- developed shrub layer and an open canopy. Nesting habitat usually restricted to the narrow border of streams, creeks, sloughs and rivers (Shuford & Gardali 2008)	Nesting: Absent (No potentially suitable nesting habitat) Foraging: Absent (Same as above, possible in dense shrubs in adjacent habitat to south of site, but not likely to utilize the site due complete lack of onsite habitat.)

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
<i>Vireo bellii pusillus</i> Least Bell's vireo	F: END C: END State rank: S2 CVMSHCP: Yes*	Riparian woodland habitats along the riverine systems of Southern California	Nesting: Absent No suitable nesting habitat Foraging: Absent No suitable foraging habitat.
Mammals			
<i>Chaeotodipus fallax pallidus</i> pallid San Diego pocket mouse	F: ND C: SSC State rank: S3S4 CVMSHCP: No	Usually in desert border areas in desert wash, scrub, and pinyon-juniper communities. Often in sandy areas with associated rocks or coarse gravel.	<b>Absent</b> No suitable habitat on project site, site has been under intensive agricultural use.
<i>Antrozous pallidus</i> pallid bat	F: ND, BLM S C: SSC State rank: S3 CVMSHCP: No WBWG: H	Most common in open, dry habitats w/ rocky areas for roosting in: deserts, grasslands, shrub- and woodlands, etc.	Absent (roosting) No suitable habitat on project site for roosting, low possibility to forage over the site.
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	F: ND, BLM S C: SSC State rank: S2 CVMSHCP: No WBWG: H	Found throughout the State in a variety of habitats, but most common in mesic areas. Roosts in the open on the ceilings of caves or abandoned structures.	<b>Absent (roosting)</b> No suitable habitat on project site for roosting, low possibility to forage over the site.
<i>Euderma maculatum</i> spotted bat	F: ND C: SSC State rank: S3 CVMSHCP: No WBWG: H	Occupies a wide variety of habitats (arid grasslands and deserts to coniferous forest): Feeds over water and along washes (almost entirely on moths), needs rock crevices in cliffs or caves for roosting.	<b>Absent (roosting)</b> No suitable habitat on project site for roosting, very low chance of foraging over water south of site.
<i>Eumops perotis californicus</i> Western mastiff bat	F: ND, BLM S C: SSC State rank: S3S4 CVMSHCP: No WBWG: H	Many open, semi-arid to arid areas including conifer and deciduous forests, grasslands, chaparral, and coastal scrubs. Roosts in crevices in cliff faces, buildings, trees and tunnels.	<b>Absent (roosting)</b> Suitable roosting habitat lacking and low probability to forage due to poor quality of on-site habitat.
<i>Lasiurus xanthinus</i> western yellow bat	F: ND C: SSC State rank: S3 CVMSHCP: Yes WBWG: H	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis. Roosts in trees, particularly palms. Forages over water and among trees.	Absent (roosting) No suitable habitat on project site, but site is surrounded by areas of date palms, so could possibly forage over or near the site.
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	F: ND C: SSC State rank: S3S4 CVMSHCP: No	Prefers habitats with moderate to dense canopy cover, especially with rock outcrops, rocky cliffs, and slopes. Usually in coastal sage scrub.	<b>Absent</b> No suitable habitat on project site.

Species	Protective Status (F=Federal, C=California)	Habitat	Occurrence Probability
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	F: ND C: SSC State rank: S3 CVMSHCP: No WBWG: M	Colonial and roosts primarily in crevices of rugged cliffs, high rocky outcrops and slopes. It has been found in a variety of plant associations, including desert shrub and pine-oak forests. The species may also roost in buildings, caves, and (rarely) under roof tiles.	<b>Absent (roosting)</b> No suitable habitat on project site.
<i>Taxidea taxus</i> American badger	F: ND C: SSC State rank: S3 CVMSHCP: No	Favors dry open areas within shrubby, forested, and herbaceous habitats with friable soils for digging.	Absent Site has been intensively farmed for agriculture, not likely to support prey for this species.
<i>Ovis canadensis nelson</i> pop.2 Peninsular bighorn sheep DPS	F: END C: THR, Fully Protected State Rank: S2 CVMSHCP: Yes	Eastern slopes of the Peninsular Ranges below 4,600 ft. Steep-walled canyons and ridges divided by rocky or sandy washes with access to water.	Absent No suitable habitat on project site, site is on the valley floor. Surrounded by agricultural lands.
<i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse	F: BLM Sensitive C: SSC State Rank: S1 CVMSHCP: Yes	Sonoran Desert habitats with level to gently sloping topography, sparse to moderate vegetative cover, and loosely packed or sandy soils.	<b>Absent</b> Habitat marginal and degraded, project site has been under intensive agriculture.
Xerospermophilus tereticaudus chlorus Coachella Valley (Palm Springs) round-tailed ground squirrel	F: ND C: SSC State Rank: S2 CVMSHCP: Yes	Prefers open, flat, grassy areas in fine-textured, sandy soil in desert succulent scrub, desert wash, desert scrub, alkali scrub, & levees.	Absent Suitable habitat lacking and project site has been completely cleared (repeatedly) for agricultural use.

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#### Definitions of occurrence probability:

Occurs: Observed on the site by WSP personnel or recorded on-site by other qualified biologists.

- High: Observed in similar habitat in region by qualified biologists, or habitat on the site is a type often utilized by the species and the site is within the known range of the species.
- Moderate: Reported sightings in surrounding region, or site is within the known range of the species and habitat on the site is a type occasionally used by the species.
- Low: Site is within the known range of the species but habitat on the site is rarely used by the species.
- Absent: A focused study failed to detect the species, or no suitable habitat is present.

#### Definitions of status designations and occurrence probabilities.

Federal designations: (federal Endangered Species Act, US Fish and Wildlife Service):

- END: Federally listed, Endangered.
- THR: Federally listed, Threatened.
- BCC: Bird of Conservation Concern
- C: Candidate for Federal listing
- ND: Not designated.

State designations: (California Endangered Species Act, California Dept. of Fish and Game)

END: State listed, Endangered.

- THR: State listed, Threatened.
  - RARE: State listed as Rare (Listed "Rare" animals have been re-designated as Threatened, but Rare plants have retained the Rare designation.)
- CSC: California Special Concern Species.
- WL: Watch List Species.
- ND: Not designated.

#### **CDFW CNDDB rankings: Animals**

**S1** = Extremely endangered: <6 viable occurrences or <1,000 individuals, or < 2,000 acres of occupied habitat **S2** = Endangered: about 6-20 viable occurrences or 1,000 - 3,000 individuals, or 2,000 to 10,000 acres of occupied habitat

**S3** = Restricted range, rare: about 21-100 viable occurrences, or 3,000 – 10,000 individuals, or 10,000 – 50,000 acres of occupied habitat

**S4** = Apparently secure; some factors exist to cause some concern such as narrow habitat or continuing threats

**S5** = Demonstrably secure; commonly found throughout its historic range

**SH** = all sites are historical, this species may be extinct, further field work is needed

#### **CDFW CNDDB rankings: Plants and Vegetation Communities**

S1 = Less than 6 viable occurrences OR less than 1,000 individuals OR less than 2,000 acres

- S1.1 = very threatened
- S1.2 = threatened
- S1.3 = no current threats known
- **S2** = 6-20 viable occurrences OR 1,000-3,000 individuals OR 2,000-10,000 acres
- S2.1 = very threatened
- S2.2 = threatened
- S2.3 = no current threats known
- S3 = 21-80 viable occurrences or 3,000-10,000 individuals OR 10,000-50,000 acres
- S3.1 = very threatened
- S3.2 = threatened
- S3.3 = no current threats known

**S4** = Apparently secure within California; this rank is clearly lower than S3, but factors exist to cause some concern.

- i.e., there is some threat, or somewhat narrow habitat.
- **S5** = Demonstrably secure to ineradicable in California.

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#### California Native Plant Society (CNPS) designations:

California Rare Plant Ranks (CRPR) Note: According to the CNPS

(<u>http://www.cnps.org/programs/Rare\_Plant/inventory/names.htm</u>), ALL plants on Lists 1A, 1B, 2A, and 2B meet definitions for state listing as threatened or endangered under Secs. 2062 and 2067 (California Endangered Species Act) of the California Department of Fish and Game Code. Certain plants on Lists 3 and 4 do as well.

The CDFW (<u>http://www.dfg.ca.gov/hcpb/species/t e spp/nat plnt consv.shtml</u>) states that plants on Lists 1A, 1B, 2A, and 2B of the CNPS Inventory consist of plants that <u>may</u> qualify for listing, and recommends they be addressed in CEQA projects (CEQA Guidelines Section 15380). However, a plant need not be in the Inventory to be considered a rare, threatened, or endangered species under CEQA. In addition, CDFW recommends, and local governments may require, protection of plants which are regionally significant, such as locally rare species, disjunct populations of more common plants, or plants on the CNPS Lists 3 and 4.

List 1A: Plants presumed extinct in California.

List 1B: Plants rare and endangered in California and throughout their range.

List 2A: Plants presumed extirpated in California, but more common elsewhere.

List 2B: Plants rare, threatened, or endangered in California, but more common elsewhere.

List 3: Plants for which more information is needed.

List 4: Plants of limited distribution; a "watch list."

CA Endemic: Taxa that occur only in California

**CNPS** Threat Code:

.1 - Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat) .2 – Fairly endangered in California (20-80% occurrences threatened)

.3 – Not very endangered in California (<20% of occurrences threatened, or no current threats known)

**Note:** All List 1A (presumed extinct in California) and some List 3 (need more information- a review list) plants lacking any threat information receive no threat code extension. Also, these Threat Code guidelines represent a starting point in the assessment of threat level. Other factors, such as habitat vulnerability and specificity, distribution, and condition of occurrences, are also considered in setting the Threat Code.

#### Western Bat Working Group (WBWG) designations:

The Western Bat Working Group is comprised of agencies, organizations and individuals interested in bat research, management and conservation from the 13 western states and provinces. Its goals are (1) to facilitate communication among interested parties and reduce risks of species decline or extinction; (2) to provide a mechanism by which current information on bat ecology, distribution and research techniques can be readily accessed; and (3) to develop a forum to discuss conservation strategies, provide technical assistance and encourage education programs.

H: High: Species which are imperiled or are at high risk of imperilment based on available information on distribution, status, ecology and known threats.

**M**: Medium: Species which warrant a medium level of concern and need closer evaluation, more research, and conservation actions of both the species and possible threats. A lack of meaningful information is a major obstacle in adequately assessing these species' status and should be considered a threat.

L: Low: Species for which most of the existing data support stable populations, and for which the potential for major changes in status in the near future is considered unlikely. There may be localized concerns, but the overall status of the species is believed to be secure. Conservation actions would still apply for these bats, but limited resources are best used on High and Medium status species.

**P**: Periphery: This designation indicates a species on the edge of its range, for which no other designation has been determined.

#### **CVMSHCP** designations

Yes: Conserved by the CVMSHCP

No: Not Specifically Conserved by the CVMSHCP C: Considered, but not included in the CVMSHCP

#### 5.7 Discussion of the Special-status Species Tables

None of the 18 sensitive plant species known from the greater project vicinity (based on CNDDB records within a five-mile radius of the project site) are expected to occur on the site. Many of these plants are known from the mountain ranges that flank the southern and western edges of the Coachella Valley and occur in completely different habitats and elevations that do not exist on the valley floor. The remaining species are not expected on the site due to a lack of habitat. The site consists of mainly barren ground (having a long history of use for agriculture) and does not support a native plant community. Only sixteen plant species were observed on the site, and almost half of these are nonnative, introduced species. Although components of both the *Atriplex lentiformis* Shrubland Alliance and *Suaeda moquinii* Shrubland Alliance are present adjacent to the southern and western portions of the site, neither of these Alliances are present on this site. Please refer to Table 1 for details regarding potential presence/absence of sensitive plant species on the site. Similarly, the single sensitive habitat known from the general project vicinity (Desert Fan Palm Oasis Woodland) is not present on the site.

Of the 43 sensitive wildlife species listed in Table 3 as potentially occurring in the project vicinity only one species (great blue heron) was observed just off the southern edge of the site in an adjacent wet area; seven (7) other species are thought to have potential to forage over the project site or in the immediate area, and one additional species (Couch's spadefoot) is thought to have a low probability of occurring or directly adjacent to the project site. None of these species are listed as threatened or endangered by the State or Federal agencies. The seven species that could forage over the site are all birds and include: ferruginous hawk (Buteo regalis), prairie falcon (Falco mexicanus), great egret (Ardea alba), snowy egret (Egretta thula), black-crowned night heron (Nycticorax nycticorax), white-faced ibis (Plegadis chihi), and burrowing owl (Athene cunicularia). It should be noted that these species are expected to have a low to very low probability of foraging occasionally over or around the site, none are expected to nest on or adjacent to the project site due to a lack of suitable habitat. The five heron, egret, and ibis species are only considered sensitive when at their nesting rookeries, and there is no potential for these species to nest on the project site. Ferruginous hawks are only present as occasional wintering species in our area and are considered a "Watch List" species by the CDFW. The potential for this species to winter on the project site is likely very low, due to a lack of suitable prey items. Prairie falcons are also considered a "Watch List" species by the CDFW and are considered sensitive when nesting. No cliff-nesting habitat is present on or adjacent to the project site to support Prairie falcon nesting. No burrows or appropriate manmade structures capable of supporting burrowing owls were observed on the site. No burrowing owls or their sign were observed on the site. Couch's spadefoots (Scaphiopus couchii) are small, stout-bodied toads that are adapted to dry conditions and spend much of their life underground. There is a 2007 CNDDB record from approximately 5 miles east-southeast of the project site in Mecca, between Highway 111 and the railroad tracks, south of 4<sup>th</sup> Street. Although ongoing plowing and general disturbance of this site greatly reduces the likelihood of this species inhabiting the project site. there is a low probability that this species could inhabit the adjacent undeveloped lands immediately to the south and west of the site and could access the site from these areas. Couch's spadefoot is considered a "Species of Special Concern" by the CDFW. The only amphibian observed on the project site during the site survey were several young individuals of the nonnative Rio Grande leopard frog (Lithobates berlandieri). As discussed previously, the site has been extensively disturbed/altered and does not support the appropriate natural habitats required by the majority of the sensitive wildlife species presented in Table 3. Additionally, many of these species occur in habitats that are not present on or adjacent to site (for example no riparian habitat for least Bell's vireo or other riparian-obligate species). In short, this is a highly disturbed site that has little potential to support both common and sensitive wildlife and plant species. Please see

Thermal Ranch Project Biological Resources Assessment Thermal, CA September 2022

Appendix C Site Photographs for a representation of conditions present on the site at the time of this survey.

#### 5.7.1 CVMSHCP Covered Species

Nineteen (19) of the species presented in Tables 1 – 3 are conserved under the CVMSHCP: Coachella Valley milkvetch, triple-ribbed milkvetch, Mecca aster, Coachella Valley giant-sand-treader cricket, desert pupfish, desert tortoise, Coachella Valley fringe-toed lizard, flat-tailed lizard, burrowing owl, crissal thrasher, Le Contes' thrasher, yellow-breasted chat, least Bell's vireo, southwestern willow flycatcher, Yuma clapper rail, western yellow bat, Palm Springs round-tailed ground squirrel, Peninsular bighorn sheep (DPS), and Palm Springs pocket mouse. Participation in the CVMSHCP, payment of the CVMSHCP development/mitigation fee and participation in the plan will fully mitigate project related impacts (although none are anticipated due to lack of presence) to these species. It should be remembered that apart from burrowing owl, none of these species are expected to occur on or adjacent to the site. Burrowing owls have a very low potential to forage on or adjacent to the site but are not expected to permanently occupy the project site due to ongoing disturbance from active agricultural use.

Suitable nesting habitat for burrowing owl was not observed on the site, and no burrows or burrow surrogates suitable for burrowing owl use were observed within the survey area. For these reasons, burrowing owl is currently not considered to be present on the project site at this time.

#### 5.7.2 Potentially Occurring Species Covered in the USFWS IPAC Report

Seven special status species are presented in the USFWS IPAC report generated specifically for the project location. All seven species are included in and addressed in Tables 1-3 of this document. These include monarch butterfly, desert tortoise, Coachella Valley fringe-toed lizard, least Bell's vireo, southwestern willow flycatcher, Yuma Ridgway's rail, and Peninsular bighorn sheep.

None of these sensitive species are expected on the project site due to the lack of appropriate habitat (including food plant in the case of the Monarch butterfly) and the overall degraded/disturbed nature of the site.

Monarch butterfly are known to occur in the general area, but the project site did not have any of the larval host plants (milkweed species). This species is not listed as threatened or endangered by any of the resource agencies. It is, however, a recent Candidate Species under the Federal Endangered Species Act.

No riparian habitat is present on or adjacent to the project site to support least Bell's vireo or southwestern willow flycatcher. However, there is a ponded area with cattails adjacent to the southern edge of the site that has some potential to support Yuma Ridgway's (clapper) rail. This area is offsite and is not expected to be impacted by development of this site. No habitat exists on site for either desert tortoise, Coachella Valley fringe-toed lizard, or Peninsular bighorn sheep. Should project-related disturbance be conducted during the native bird nesting season (1 February through 31 August), a nesting bird clearance survey is recommended to ensure that implementation of the proposed project does not impact nesting birds and complies with the MBTA.

#### 6.0 DISCUSSION

The proposed project includes the development of approximately 622-acres as a mixed residential, recreational, and equestrian community. The project site is mostly barren ground with

sparse areas of low-growing disturbance-tolerant plants scattered throughout those areas not under active agriculture. It is surrounded by active and former agricultural lands, as well as some low-density residential development and equestrian use to the east of the site. It provides no connectivity to any adjacent well-developed native habitat or conservation areas. The project site does not contain any United States Army Corps of Engineers, Regional Water Quality Control Board, or CDFW jurisdictional waters. The project site is not within and/or adjacent to any CVMSHCP Conservation Areas, so will not be subject to CVMSHCP land use adjacency guidelines. To prevent impacts to potentially nesting native birds protected by the MBTA and state fish and game code, the following measures should be taken:

#### 6.1 Protection of Nesting Birds

Special status bird species covered by the CVMSHCP as well as a variety of common bird species that are excluded from coverage under the plan are all still protected by the MBTA and the state Fish and Game Code. This includes virtually all native migratory and resident bird species. Avoidance of impacts to these birds is a requirement of the federal permit issued for the CVMSHCP. To avoid impacting nesting birds both within and outside conservation areas, either avoidance of project-related disturbance during the nesting season (1 February through 31 August) or nesting bird surveys conducted by a qualified ornithologist or biologist immediately prior to on-site disturbance during the nesting season would be required. If nesting birds are found, no work would be permitted near the nest until young have fledged. There is no established protocol for nest avoidance, however, when consulted the CDFW generally recommends avoidance buffers of about 500 feet for birds-of-prey and species listed as threatened or endangered, and 100–300 feet for unlisted songbirds.

#### 6.2 Burrowing Owl

As noted above, no burrowing owls or their sign were observed on the site. Burrowing owls often occupy barren, open sites similar to the project site. This species nests and roosts underground so is uniquely vulnerable to ground disturbing activities. No burrows or "burrow surrogates" such as small culverts or abandoned concrete pipe sections suitable for use by burrowing owls were found on the site during the survey. Since burrowing owls can disperse from nearby occupied areas, a preconstruction survey following CDFG (2012) guidelines must be conducted prior to initiating ground-disturbing activities. Unless avoidable, all burrowing owls present must be relocated prior to any ground disturbing activities. If burrowing owls remain on-site, a Burrowing Owl Relocation and Management Plan will be prepared to describe and outline how the burrowing owl will be actively or passively relocated per CDFW guidelines. Relocation will require prior permission from the CDFW, at a minimum. Since the burrowing owl is a covered species under the CVMSHCP, additional mitigation/conservation measures will not be required.

#### 7.0 CONCLUSION

With the implementation of the recommendations above, impacts to special status biological resources are anticipated to be avoided, minimized, and/or mitigated in accordance with the CVMSHCP and other resource agency requirements.

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- USGS 7.5' Valerie, Indio, Martinez Mtn., Rabbit Peak, and Mecca, Calif. 7.5-minute topographic quadrangles (USGS 1972 1 2015)

**APPENDIX A** 

FIGURES

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailà ind), NGC



**Project Location** Thermal Ranch Project Thermal, Riverside County, CA





USGS 7.5' Topo Quad: Valerie Thermal Ranch Project Thermal, Riverside County, CA







FIGURE 3

Site Vicinity Thermal Ranch Project Thermal, Riverside County, CA



wood.

Project Boundary



It - Indio very fine sandy loam, wet

Sb - Salton silty clay loam

Soils Thermal Ranch Project Thermal, Riverside County, CA

**FIGURE 4** 







FIGURE 5

Vegetation Thermal Ranch Project Thermal, Riverside County, CA









Project Boundary

CVMSHCP Boundary

CVMSHCP Thermal Ranch Project Thermal, Riverside County, CA

**FIGURE 6** 

APPENDIX B

PLANTS AND VERTEBRATE WILDLIFE OBSERVED

#### ANGIOSPERMAE DICOTYLEDONEAE

Aizoaceae Sesuvium verrucosum

Amaranthaceae \*Amaranthus albus Amaranthus fimbriatus

Chenopodiaceae Atriplex lentiformis

Convolvulaceae Cressa truxillensis

Heliotropiaceae Heliotropium curassavicum var. oculatum

Portulacaceae \*Portulaca oleracea

Tamaricaceae \*Tamarix ramosissima

Zygophyllaceae \*Tribulus terrestris

MONOCOT ANGIOSPERMS

Arecaceae Washingtonia sp. (seedlings)

**Cyperaceae** Bolboschoenus maritimus ssp. paludosus Cyperus esculentus

Poaceae \*Cynodon dactylon Leptochloa fusca \*Polypogon interruptus

**Typhaceae** *Typha domingensis* 

\* - denotes a non-native species

### **DICOT FLOWERING PLANTS**

Fig-Marigold or Iceplant Family western sea-purslane

Amaranth Family white pigweed fringed amaranth

Goosefoot Family big saltbush

Morning-glory Family alkali weed

Heliotrope Family alkali heliotrope

Purslane Family common purslane

Tamarisk Family saltcedar (seedlings)

Caltrop Family puncture vine

Palm Family unidentified fan palm

Sedge Family alkali bulrush yellow nutsedge

**Grass Family** Bermuda grass sprangletop ditch grass

Cattail Family southern cattail

#### Vertebrate Wildlife Observed or Detected Thermal Ranch Project Site, Thermal, Riverside County, California

## CHORDATES

## AMPHIBIANS

\*Rio Grande leopard frog

**BIRDS** 

# <u>AVES</u>

**CHORDATA** 

AMPHIBIA

Columbidae \*Eurasian collared-dove

Ardeidae great blue heron

Jays, Magpies, and Crows common raven

Passerellidae song sparrow **Pigeons and Doves** Streptopelia decaocto

Lithobates berlandieri

Herons, Bitterns, and Allies Ardea herodias

**Corvidae** *Corvus corax* 

New World Sparrows Melospiza melodia

\* - non-native species

\*\* - special status species

cf - compares favorably with

APPENDIX C

## SITE PHOTOS



**Photo 1**. Looking west from the northeast corner of the project site. Showing 62<sup>nd</sup> Avenue and date palm groves to the north of the site.



Photo 2. Looking south (along Tyler Street) from the northeast corner of the site.



**Photo 3**. Looking south from 62<sup>nd</sup> Avenue at northeast quarter of site under active agriculture.



**Photo 4**. Looking south from northcentral edge of the site. Showing extensive barren ground and hay/crop storage buildings near the center of the site.



Photo 5. Looking west along 62<sup>nd</sup> Avenue at northwest corner of site.



**Photo 6**. Looking south along Harrison Street from the northwest corner of the site.



Photo 7. View of the southwest area of the site as seen from Harrison Street.



**Photo 8**. View of the southwest corner of the site, with fallow agricultural lands in the background south of the site.



**Photo 9**. Looking east from the southwest corner of the site, showing barren condition of the site compared to adjacent saltbush scrub growing offsite.



**Photo 10**. View of the central portion of the site from the southern edge.



Photo 11. Water body adjacent to south edge of site (not on project site).



**Photo 12**. View of the southeastern area of project site showing barren ground with sparse weedy plant growth.



Photo 13. Looking east at the southeast corner of the site.



Photo 14. Looking north along Tyler Steet from southeast corner of site.



# APPENDIX D

CVMSHCP Table 4-112: Coachella Valley Native Plants Recommended for Landscaping

## Coachella Valley Native Plants Recommended for Landscaping

### **BOTANICAL NAME**

#### COMMON NAME

#### Trees

Washingtonia filifera	California fan palm
Cercidium floridum	blue palo verde
Chilopsis linearis	desert willow
Olneya tesota	ironwood tree
Prosopis glandulosa var. torreya	ana honey mesquite

#### Shrubs

Acacia greggii	cat's claw acacia	
Ambrosia dumosa	burro bush	
Atriplex canescens	four wing saltbush	
Atriplex lentiformis	quailbush	
Atriplex polycarpa	cattle spinach	
Baccharis sergiloides	squaw water-weed	
Bebia juncea	sweet bush	
Cassia (Senna) covesii	desert senna	
Condalia parryi	crucillo	
Crossosoma bigelovii	crossosoma	
Dalea emoryi	dye weed	
Dalea (Psorothamnus) schottii	indigo bush	
Datura meteloides	jimson weed	
Encelia farinosa	brittle bush	
Ephedra aspera	Mormon tea	
Eriogonum fasciculatum	California buckwheat	
Eriogonum wrightii membranace	eum Wright's buckwheat	
Fagonia laevis	no common name	
Gutierrezia sarothrae	matchweed	
Haplopappus acradenius	goldenbush	
Hibiscus denudatus	desert hibiscus	
Hoffmannseggia microphylla	rush pea	
Hymenoclea salsola	cheesebush	
Hyptis emoryi	desert lavender	
Isomeris arborea	bladder pod	
Juniperus californica	California juniper	
Krameria grayi	ratany	
Krameria parvifolia	little-leaved ratany	
Larrea tridentata	creosote bush	
Lotus rigidus	desert rock pea	
Lycium andersonii	box thorn	
Petalonyx linearis	long-leaved sandpaper plant	
Petalonyx thurberi	sandpaper plant	
Peucephyllum schottii	pygmy cedar	
Prunus fremontii	desert apricot	
Rhus ovata	sugar-bush	
Salazaria mexicana	paper-bag bush	
Salvia apiana	white sage	
Salvia eremostachya	Santa Rosa sage	

Salvia vaseyi Simmondsia chinensis Sphaeralcia ambigua Sphaeralcia ambigua rosacea Trixis californica Zauschneria californica

wand sage jojoba globemallow (desert mallow) apricot mallow trixis California fuchsia

wishbone bush (four o'clock) white four o'clock (thin-lobed)

#### Groundcovers

Mirabilis bigelovii Mirabilis tenuiloba

**Vines** Vitis girdiana

desert grape

Accent Muhlenbergia rigens

deer grass

#### Herbaceous Perennials

Adiantum capillus-veneris Carex alma Dalea parryi Eleocharis montevidensis Equisetum laevigatum Juncus bufonis Juncus effuses Juncus macrophyllus Juncus mexicanus Juncus xiphioides Notholaena parryi Pallaea mucronata

#### Cacti and Succulents

Agave deserti Asclepias albicans Asclepias subulata Dudleya arizonica Dudleya saxosa Echinocereus engelmannii Ferocactus acanthodes Fouquieria splendens Mamillaria dioica Mamillaria tetrancistra Nolina parryi Opuntia acanthocarpa Opuntia bigelovii Opuntia basilaris Opuntia echinocarpa Opuntia ramosissima Yucca schidigera Yucca whipplei

maiden-hair fern sedge Parry dalea spike rush horsetail toad rush juncus juncus Mexican rush juncus Parry cloak fern bird-foot fern

desert agave desert milkweed (buggy-whip) ajamete live-forever rock dudleya calico hedgehog cactus barrel cactus ocotillo nipple cactus corkseed cactus Parry nolina stag-horn or deer-horn cholla teddy bear or jumping cholla beavertail cactus silver or golden cholla pencil cholla, darning needle cholla Mojave yucca, Spanish dagger Our Lord's candle

# APPENDIX E

**Prohibited Invasive Ornamental Plants** 

#### **Prohibited Invasive Ornamental Plants**

### BOTANICAL NAME COMMON NAME

Acacia spp. (all species except A. greggii) (all species except native catclaw acacia)				
Arundo donax	giant reed or arundo grass			
Atriplex semibaccata	Australian saltbush			
Avena barbata	slender wild oat			
Avena fatua	wild oat			
Brassica tournefortii	African or Saharan mustard			
Bromus madritensis ssp. rubens red brome				
Bromus tectorum	cheat grass or downy brome			
Cortaderia jubata [syn.C. ata	camensis] jubata grass or Andean pampas grass			
Cortaderia dioica [syn. C. sel	lloana] pampas grass			
Descurainia sophia	tansy mustard			
Eichhornia crassipes	water hyacinth			
Elaegnus angustifolia	Russian olive			
Foeniculum vulgare	sweet fennel			
Hirschfeldia incana	Mediterranean or short-pod mustard			
Lepidium latifolium	perennial pepperweed			
Lolium multiflorum	Italian ryegrass			
Nerium oleander	oleander			
Nicotiana glauca	tree tobacco			
Oenothera berlandieri	Mexican evening primrose			
Olea europea	European olive tree			
Parkinsonia aculeata	Mexican palo verde			
Pennisetum clandestinum	Kikuyu grass			
Pennisetum setaceum	fountain grass			
Phoenix canariensis	Canary Island date palm			
Phoenix dactylifera	date palm			
Ricinus communis	castorbean			
Salsola tragus	Russian thistle			
Schinus mole	Peruvian pepper tree			
Schinus terebinthifolius	Brazilian pepper tree			
Schismus arabicus	Mediterranean grass			
Schismus barbatus	Saharan grass, Abu Mashi			
Stipa capensis	no common name			
Tamarix spp. (all species)	tamarisk or salt cedar			
<i>Laeniatherum caput-medusae</i> Medusa-head				
I ribuius terrestris	puncturevine			
vinca major Maabiaatania wakwata				
vvasningtonia robusta	iviexican tan palm			
rucca gioriosa	Spanish dagger			

Sources: California Exotic Pest Plant Council, United States Department of Agriculture-Division of Plant Health and Pest Prevention Services, California Native Plant Society, Fremontia Vol. 26 No. 4, October 1998, The Jepson Manual; Higher Plants of California, and County of San Diego Department of Agriculture. APPENDIX F

**USFWS IPAC Report** 



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 Phone: (760) 431-9440 Fax: (760) 431-5901



In Reply Refer To: Project Code: 2022-0085965 Project Name: Thermal Equestrian Center September 15, 2022

# Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A biological assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a biological assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a biological assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found at the Fish and Wildlife Service's Endangered Species Consultation website at:

#### https://www.fws.gov/endangered/what-we-do/faq.html

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/ executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

# Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

#### **Carlsbad Fish And Wildlife Office**

2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 (760) 431-9440

# **Project Summary**

Project Code:2022-0085965Project Name:Thermal Equestrian CenterProject Type:New Constr - Above GroundProject Description:The proposed Thermal Equestrian Center project is located on 622 acres<br/>of land between 62nd Avenue to the north, 64th Avenue to the south,<br/>Harrison Street to the west, and Tyler Street to the east in Thermal,<br/>California. The project proposal includes low, medium, and high density<br/>residential housing. It also proposes inclusion of horse stables, grazing,<br/>and training areas, a golf course, and a small lake to be used for<br/>recreational purposes.

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@33.59113525,-116.17269683512762,14z</u>



Counties: Riverside County, California

# **Endangered Species Act Species**

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## Mammals

NAME	STATUS
Peninsular Bighorn Sheep Ovis canadensis nelsoni Population: Peninsular CA pop. There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/4970</u>	Endangered
Birds	
NAME	STATUS
Least Bell's Vireo Vireo bellii pusillus There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/5945</u>	Endangered
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6749</u>	Endangered
Yuma Ridgway"s Rail <i>Rallus obsoletus yumanensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/3505</u>	Endangered

# Reptiles

NAME	STATUS
Coachella Valley Fringe-toed Lizard <i>Uma inornata</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/2069</u>	Threatened
Desert Tortoise Gopherus agassizii Population: Wherever found, except AZ south and east of Colorado R., and Mexico There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/4481</u>	Threatened
Insects NAME	STATUS

Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u> Candidate

# **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# **IPaC User Contact Information**

Wood Environment and Infrastructure
Nathan Moorhatch
1845 Chicago Avenue
Suite D
Riverside
CA
92507
nathan.moorhatch@woodplc.com
7144238559