# BIOLOGICAL RESOURCES ASSESSMENT, JURISDICTIONAL DELINEATION, AND MSHCP CONSISTENCY ANALYSIS FOR THE OPERON HKI-PERRIS DEVELOPMENT PROJECT PERRIS, RIVERSIDE COUNTY, CALIFORNIA

### Prepared for:

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### **SECTION 1.0 - INTRODUCTION**

Jennings Environmental, LLC (Jennings) was retained by Lilburn Corporation (Lilburn) to conduct a literature review and reconnaissance-level survey for the proposed Operon HKI Development Project (Project). The survey identified vegetation communities, the potential for the occurrence of special status species, or habitats that could support special status wildlife species, and recorded all plants and animals observed or detected within the Project boundary. This biological resources assessment is designed to address potential effects of the proposed project to designated critical habitats and/or any species currently listed or formally proposed for listing as endangered or threatened under the federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA) or species designated as sensitive by the California Department of Fish and Wildlife (CDFW) or the California Native Plant Society (CNPS).

Information contained in this document is in accordance with accepted scientific and technical standards that are consistent with the requirements of the United States Fish and Wildlife Service (USFWS) and CDFW. Additionally, the site was surveyed for any drainage features that would meet the definition of the Waters of the US (WOUS), Waters of the State (WOS), or CDFW jurisdiction. Additionally, the project is located within the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP). As such, this report also contains the results of the consistency analysis performed for the project.

### 1.1 PROJECT LOCATION

The project is generally located in the northeast portion of Section 6, Township 4 South, Range 3 West, and is depicted on the *Perris* U.S. Geological Survey's (USGS) 7.5-minute topographic map. More specifically the project is located within APNs 302-090-028 and 302-090-027, within the City of Perris, Riverside County, California. The Project site is located at the intersection of Harley Knox Blvd and Indian Ave. The site is surrounded by commercial development to the north, south, and west. To the east is vacant lots. (Figures 1 and 2 in Appendix A).

### 1.2 PROJECT DESCRIPTION

Operon Group is proposing the construction and operation of a warehouse facility to include three industrial buildings on the 8.69-acre property. Additional development includes parking, entrance curbing and permitter fencing.

#### 2.0 - METHODOLOGY

### 2.1 LITERATURE REVIEW

Prior to performing the field survey, existing documentation relevant to the Project site was reviewed. The most recent records of the California Natural Diversity Database (CNDDB) managed by CDFW (CDFW 2021), the USFWS Critical Habitat Mapper (USFWS 2021), and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California (CNPS 2021) were reviewed for the following quadrangle containing and surrounding the Project site: *Perris*, USGS 7.5-minute quadrangle. These databases contain records of reported occurrences of federal- or state-listed endangered or threatened species, California Species of Concern (SSC), or otherwise special status species or habitats that may occur within or in the immediate vicinity of the Project site.

#### **2.2 SOILS**

Before conducting the surveys, soil maps for Riverside County were referenced online to determine the types of soil found within the Project site. Soils were determined in accordance with categories set forth by the United States Department of Agriculture (USDA) Soil Conservation Service and by referencing the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2021).

### 2.3 BIOLOGICAL RECONNAISSANCE-LEVEL SURVEY

Jennings biologist, Gene Jennings, conducted the general reconnaissance survey within the Project site to identify the potential for the occurrence of special status species, vegetation communities, or habitats that could support special status wildlife species. The surveys were conducted on foot, throughout the Project site between 0830 and 0930 hours on April 10, 2021. Weather conditions during the survey included temperatures ranging from 57 to 68 degrees Fahrenheit, with no cloud cover, no precipitation, 0 to 5 mile per hour winds. Photographs of the Project site were taken to document existing conditions (Appendix B).

### **2.4 JURISDICTIONAL FEATURES**

A general assessment of jurisdictional waters regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW was conducted for the proposed Project area. Pursuant to Section 404 of the Clean Water Act, USACE regulates the discharge of dredged and/or fill material into waters of the United States. The State of California (State) regulates the discharge of material into waters of the State pursuant to Section 401 of the Clean Water Act and the California Porter- Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, CDFW regulates all substantial diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife. The initial assessment was conducted by a desktop survey through the USGS National Hydrography Dataset for hydrological connectivity. Additional assessment findings are discussed in Sections 3.1.2 and 3.2.4. A discussion of the regulatory framework is provided in Appendix C.

### 2.5 WESTERN RIVERSIDE MULTIPLE SPECIES HABITAT CONSERVATION PLAN

The MSHCP is intended to balance the demands of the growth of western Riverside County with the need to preserve open space and protect species of plants and animals that are threatened with extinction. The MSHCP addresses incidental take of "covered" species. Of the 146 species addressed in the Western Riverside County MSHCP, 118 are adequately conserved simply by implementing the conservation program. Incidental take of these 118 species is permitted by the Western Riverside County MSHCP. The remaining 28 species are partially conserved. They would be adequately conserved when certain additional conservation requirements are implemented. The additional requirements are identified in the species-specific conservation objectives for those 28 species. The Riverside Conservation Authority (RCA) is the governing body that administers the MSHCP. Their database was researched prior to conducting the filed visit.

#### 2.6 VEGETATION

All plant species observed within the Project site were recorded. Vegetation communities within the Project site were identified and qualitatively described. Plant communities were determined in accordance with the *Manual of California Vegetation*, *Second Edition* (Sawyer et al. 2009). Plant nomenclature follows that of *The Jepson Manual*, *Second Edition* (Baldwin et al. 2012). A comprehensive list of the plant species observed during the survey is provided in Appendix D.

#### 2.7 WILDLIFE

All wildlife and wildlife signs observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (native vegetation, wildlife trails, etc.) or in habitats with the potential to support state- and/or federally listed or otherwise special status species. Notes were made on the general habitat types, species observed, and the conditions of the Project site. A comprehensive list of the wildlife species observed during the survey is provided in Appendix D.

#### **SECTION 3.0 – RESULTS**

#### 3.1 LITERATURE REVIEW RESULTS

According to the CNDDB, CNPSEI, and other relevant literature and databases, 35 sensitive species including 8 listed species, have been documented in the *Perris* quad. This list of sensitive species and habitats includes any State and/or federally listed threatened or endangered species, CDFW designated Species of Special Concern (SSC), and otherwise Special Animals. "Special Animals" is a general term that refers to all of the taxa the CNDDB is interested in tracking, regardless of their legal or protection status. This list is also referred to as the list of "species at risk" or "special status species." The CDFW considers the taxa on this list to be those of greatest conservation need.

An analysis of the likelihood for the occurrence of all CNDDB sensitive species documented in the *Perris* quad is provided in Table 2, in Appendix D. This analysis takes into account species range as well as documentation within the vicinity of the project area and includes the habitat requirements for each species and the potential for their occurrence on the site, based on required habitat elements and range relative to the current site conditions. According to the databases, no USFWS designated critical habitat occurs within or adjacent to the project site.

### **3.1.1 SOILS**

After review of USDA Soil Conservation Service and by referencing the USDA NRCS Web Soil Survey (USDA 2021), it was determined that the Project site is located within the Western Riverside Area, California area CA679. Based on the results of the database search none of the soils present on site are classified as hydric soils. The Project site contains two (2) soil types (Figure 3 in Appendix A):

<u>Greenfield sandy loam (GyA). 0 to 2 percent slopes.</u> This soil is well-drained with a moderately high to high capacity to transmit water. This soil consists of alluvium derived from granite, typically ranges in elevation from 100 to 3,500 feet amsl, and is considered prime farmland if irrigated.

<u>Exerter very fine sandy loam (EyB). 0 to 5 percent slopes.</u> This soil is well-drained with a very low capacity to transmit water. This soil consists of alluvium derived from granite, typically ranges in elevation from 300 to 700 feet amsl, and is considered prime farmland if irrigated.

#### **3.1.2 JURISDICTIONAL WATERS**

Aerial imagery of the site was examined and compared with the surrounding USGS 7.5-minute topographic quadrangle maps to identify drainage features within the survey area as indicated from topographic changes, blue-line features, or visible drainage patterns. The U.S. Fish and Wildlife Service National Wetland Inventory and Environmental Protection Agency (EPA) Water Program "My Waters" data layers were also reviewed to determine whether any hydrologic features and wetland areas had been documented within the vicinity of the site. Similarly, the Soil maps from the U.S. Department of Agriculture (USDA) - Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2021) were reviewed to identify the soil series on-site and to check if they have been identified regionally as hydric soils. Upstream and downstream connectivity of waterways (if present) was reviewed in the field, on aerial imagery, and topographic maps to determine jurisdictional status. No obvious signs of jurisdictional features were observed during the literature review.

### 3.1.3 HYDROLOGY AND HYDROLOGIC CONNECTIVITY

Hydrologically, the project site is located within Perris Valley Hydrologic Sub-Area (HSA 802.11) which comprises a 106,456-acre drainage area within the larger Lower San Jacinto River Hydrologic Area (Hydrologic Unit Code [HUC10] 1807020203) (CalTrans, 2021) (Figure 4 in Appendix A). The Lower San Jacinto River watershed in Perris is bordered to the north by the San Timoteo Wash and the Middle Santa Ana River watersheds, to the west by the Temescal Wash and San Juan Creek watersheds, to south by the San Mateo Creek and Murrieta Creek watersheds, and to the east by the Middle San Jacinto River and Upper San Jacinto River watersheds (Figure 4 in Appendix A).

### 3.1.4 MSHCP

Prior to the filed visit the Riverside Conservation Authority's website and databases were searched. This includes the MSHCP plan itself and any relevant protocol survey requirements. The database also includes a mapping program that contains site-specific information related to criteria cell location, special survey areas for plants and animals, and vegetation mapping.

A summary of the MSHCP Conservation Goals and Policies as they relate to this Project is provided below in Table 1.

Table 1: MSHCP Conservation Goals for Project Area

Conservation Goals	Within /Adjacent	Not Within /Adjacent
Proposed Constrained Linkages: None		Х
Core Areas: None		Х

Conservation Goals	Within /Adjacent	Not Within /Adjacent
Linkages: None		X
Constrained Linkage:		Х
Habitat Block:		Х
Core: None		Х
Criteria Cell:		Х
Pre-existing conservation Area		Х
Riparian/Riverine or Vernal Pool Habitat		Х
Narrow Endemic Plant Survey Area		Х
Urban/Wildlife Interface		Х
Mammal Survey Area		Х
Amphibian Survey Area		Х
Burrowing Owl Survey Area	Х	

### **3.2 FIELD STUDY RESULTS**

### **3.2.1 HABITAT**

The habitat on-site consists of a mix of ruderal vegetation/bare ground with wall barley (Hordeum murinum) being the dominant ruderal vegetation. The ruderal vegetation is classified as Avena spp.-Broums spp. Herbaceous Semi-Natural Alliance (Sawyer, 2015), or wild oats and annual brome grasslands. The site shows signs of recent vegetation management in the form of mowing and historical disturbance in the form of vehicle use, disking and pedestrian traffic. Table 1 in Appendix D contains a list of all plants found on-site. Surrounding land uses include undeveloped parcels and commercial developments.

### 3.2.2 WILDLIFE

Species observed or otherwise detected on or in the vicinity of the project site during the surveys included; house sparrow (*Passer domesticus*) and northern mocking bird (*Mimus polyglottos*).

The project site is located within a mostly developed area of Perris. Although the site is undeveloped, very little evidence of any wildlife existed on-site and only two bird species were observed during the site survey.

#### **3.2.3 SPECIAL STATUS SPECIES**

No State and/or federally listed threatened or endangered species or other sensitive species were observed on-site during surveys.

### Designated Critical Habitat

The site is not located within or adjacent to any USFWS designated Critical Habitat. No further action is required.

### **Nesting Birds**

The Project site and immediate surrounding area does contain habitat suitable for nesting birds. Nesting bird surveys should be conducted prior to any construction activities taking place during the nesting season to avoid potentially taking any birds or active nests. In general, impacts to all bird species (common and special status) can be avoided by conducting work outside of the nesting season (generally March 15<sup>th</sup> to September 15<sup>th</sup>), and conducting a worker awareness training. However, if all work cannot be conducted outside of the nesting season, a project-specific Nesting Bird Management Plan can be prepared to determine suitable buffers.

### **3.2.4 JURISDICTIONAL WATERS**

### Waters of the United States and Waters of the State

The USACE has the authority to permit the discharge of dredged or fill material in Waters of the U.S. under Section 404 CWA. While the Regional Water Quality Board has authority over the discharge of dredged or fill material in Waters of the State under Section 401 CWA as well as the Porter-Cologne Water Quality Control Act. The Project area was surveyed with 100 percent visual coverage and no drainage features were present on site. As such, the subject parcel does not contain any wetlands, Waters of the U.S., or Waters of the State.

### Fish and Game Code Section 1602 - State Lake and/or Streambed

The CDFW asserts jurisdiction over any drainage feature that contains a definable bed and bank or associated riparian vegetation. The Project area was surveyed with 100 percent visual coverage and no definable bed or bank features exist on the project site. As such, the subject parcel does not contain any areas under CDFW jurisdiction.

### 3.2.5 WETLANDS

NWI maps did not identify portions within the Project site as a Riverine/Riparian system. Additionally, none of the requirements for wetland designation (hydric vegetation, hydric soils, and/or wetland hydrology) were present on site. As such, there are no wetlands currently present on site.

#### **3.3 MSHCP CONSISTENCY ANALYSIS**

The Project is located within The Mead Valley Area Plan of the MSHCP. The target conservation acreage range for The Mead Valley Area Plan is 4,980 – 6,730 acres; it is composed of approximately 3,095 acres of existing Public/Quasi-Public Lands and 1,885 – 3,635 acres of Additional Reserve Lands.

The MSHCP Conservation Area comprises a variety of existing and proposed Cores, Linkages, Constrained Linkages, and Noncontiguous Habitat Blocks (referred to herein generally as "Cores and Linkages"). The Cores and Linkages within the Mead Valley Area Plan include:

- Contains the Proposed Constrained Linkage 19
- Contains a portion of Proposed Core 1
- Contains a portion of Extension of Existing Core 4
- Contains a small portion of Proposed Linkage 3
- Contains a portion of Proposed Linkage 7
- Contains a Portion of Noncontiguous Habitat Block 4

### 3.3.1 PUBLIC QUASI-PUBLIC LANDS (PQP) AND COVERED ROADS

Pursuant to Sections 3.2.1 PQP Lands are a Subset of MSHCP Conservation Area lands totaling approximately 347,000 acres of lands known to be in public/private ownership and expected to be managed for open space value and/or in a manner that contributes to the Conservation of Covered Species (including lands contained in existing reserves), as generally depicted in Figure 3-1 of the MSHCP, Volume I. Section 7.2.1 Existing Roads within Existing PQP Lands are existing roadways within existing Public/Quasi-Public Lands, including interstates, freeways, State highways, city and county maintained roadways, as well as local roads, which are not city, or county maintained that provide property access. This latter category of other maintained roadways are generally maintained by the adjacent property owners, either individually or collectively. Table 7-1, of the MSHCP, provides an estimate summarizing the extent of these various types of existing roadways which are permitted to remain within Public/Quasi-Public Lands.

The Project site is not located within or adjacent to any PQP Lands and will not impact a covered road.

No further discussion on this subject is made in this analysis

### 3.3.2 SUBUNIT AREA/CELL CRITERIA

Pursuant to Section 3.3.12, Subunits are areas within an area plan that contain target conservation acreages along with a description of the planning species, biological issues, and considerations. The Project site is not located within a subunit area or cell criteria.

No further discussion on this subject is made in this analysis

### **3.3.3 NARROW ENDEMIC PLANT SPECIES**

Pursuant to Section 6.1.3 of the MSHCP, focused surveys for narrow endemic plant species are required for properties within the mapped areas if the appropriate habitat is present. The survey area maps have been reviewed and assessed, and the proposed project is not located within a Narrow Endemic Plant Species Survey Area based on Figure 6-1 of the MSHCP.

No further discussion on this subject is made in this analysis

#### 3.3.4 ADDITIONAL SURVEY NEEDS AND PROCEDURES

Based on Figures 6-2 (Criteria Area Species Survey Areas), 6-3 (Amphibian Species Survey Areas), 6-4 (BUOW Survey Areas), and 6-5 (Mammal Species Survey Areas) of the MSHCP and the MSHCP Mapping Program, the site is located in an area where additional surveys are needed for BUOW in conjunction with MSHCP implementation in order to achieve coverage for these species.

- ➤ BUOW: Pursuant to MSHCP Section 6.3.2, surveys shall be conducted within suitable habitat for BUOW, according to accepted protocols.
  - Survey Results: Based on the April 2021 field survey, the site does not contain suitable habitat for this species. The property is continually maintained. No burrowing owls were observed during the site visit. No burrows of any kind were located within the property site. No portion of the project site showed any evidence of past or present BUOW activity. No feathers, whitewash, or castings were found and no suitable burrow surrogate species are present on-site. No suitable habitat exists on-site; therefore, no focused surveys are required.

### 3.3.5 RIPARIAN/RIVERINE AREAS AND VERNAL POOLS

The MSHCP describes the protection of Riparian/Riverine Areas and Vernal Pools within the MSHCP Plan Area as important to the conservation of certain amphibian, avian, fish, invertebrate and plant species. The MSHCP describes guidelines to ensure that the biological functions and values for species inside the MSHCP Conservation Area are maintained, as outlined in Volume 1, Section 6.1.2.

### Riparian/ Riverine

Pursuant to Section 6.1.2 of the MSHCP, Riparian/Riverine areas are lands which contain habitat dominated by trees, shrubs, persistent emergent vegetation, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from nearby freshwater sources, or areas with freshwater flow during all or a portion of the year. Riverine habitat includes all wetlands and deepwater habitats contained in natural or artificial channels periodically or continuously containing flowing water or which forms a connecting link between the two bodies of standing water. Riverine habitat is bounded on the landward side by upland, by the channel bank (including natural and man-made levees), or by wetlands dominated by trees, shrubs, persistent emergents, mosses, or lichens. In braided streams, the system is bounded by the banks forming the outer limits of the depression within which the braiding occurs. Springs discharging into a channel are considered part of the riverine habitat. The term riparian is used to define the type of wildlife habitat found along the banks of a river, stream, lake, or other body of water. Riparian habitats are ecologically diverse and can be found in many types of environments including grasslands, wetlands, and forests.

The Project site does not contain any areas that meet the definition of Riparian/Riverine.

No further discussion on this subject is made in this analysis

### Vernal Pools

Pursuant to Section 6.1.2 of the MSHCP, Vernal Pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter

portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics should consider (1) the length of time the area exhibits upland and wetland characteristics, and (2) the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records.

The Project site does not contain the appropriate soils, vegetation, or hydrology to allow for vernal pools.

No further discussion on this subject is made in this analysis

### Fairy Shrimp

The MSHCP contains coverage for three species of fairy shrimp (Riverside, vernal pool, and Santa Rosa fairy shrimps). As mentioned in the Vernal Pool discussion, the site does not contain vernal pools. Vernal pools are a required constituent element for all three fairy shrimp species in the MSHCP. As such, they are considered absent from the Project site.

No further discussion on this subject is made in this analysis

### Riparian Birds

The MSCHP includes coverage for many riparian birds, including least Bell's vireo, southwestern willow flycatcher, and yellow-billed cuckoo. As mentioned above in the Riparian/Riverine section, the site does not contain any riparian or riverine habitats which are a required constituent element for the riparian bird species. As such, these species are considered absent from the Project site.

No further discussion on this subject is made in this analysis

### 3.3.6 INFORMATION ON OTHER SPECIES

### Delhi sands flower-loving fly

The Delhi Sands flower-loving fly is found at low numbers and is narrowly distributed within the Plan Area. This species is restricted by the distribution and availability of open Habitats within the fine, sandy Delhi series soils. USFWS has identified three main population areas are known to currently or to have at one time existed in the Plan Area. One is located in the northwestern corner of the Plan Area, a second is located in the Jurupa Hills, and the third is located in the Agua Mansa Industrial Center area. Because the Delhi Sands flower-loving fly requires a specific Habitat type, this species will require site-specific considerations, protection and enhancement of this limited Habitat type, and species-specific management to maintain the Habitat and populations.

The Project site does not contain the appropriate soils for this species and is not within or near known areas for this species.

No further discussion on this subject is made in this analysis

#### Species Not Adequately Conserved

As described in Section 2.1.4, of the 146 Covered Species addressed in the MSHCP, 118 species are considered to be adequately conserved. The remaining 28 Covered Species will be considered to be adequately conserved when certain conservation requirements are met as identified in the species-specific conservation objectives for those species. For 16 of the 28 species, particular species-specific conservation objectives, which are identified in Table 9-3, must be satisfied to shift those particular species to the list of Covered Species Adequately Conserved. For the remaining 12 species, a Memorandum of Understanding must be executed with the Forest Service that addresses management for these species on Forest Service Land in order to shift these species to the list of Covered Species Adequately Conserved.

The Project site does not contain the appropriate habitats for any of these species. There is no occurrence potential for any of these species to occur within the Project site.

No further discussion on this subject is made in this analysis

### 3.3.7 URBAN/ WILDLANDS INTERFACE

Section 6.1.4 of the MSHCP presents guidelines to minimize the indirect effects of projects in proximity to the MSCHP Conservation areas. This section provides mitigation measures for impacts associated with Drainage, Toxics, Lighting, Noise, Invasives, Barriers, and Grading/Land Development.

The Project site is not within or adjacent to any area the meets the definition of an urban/wildland interface. The site is fenced off and mostly surrounded by other fenced off developed parcels.

No further discussion on this subject is made in this analysis

### 3.3.7 BEST MANAGEMENT PRACTICES (VOLUME I, APPENDIX C)

Appendix C of the MSHCP details Best Management Practices (BMPs) that should be implemented. However, the project does not impact any of the covered species or habitats described in the MSHCP or any federally or state-listed species. As such, there are only two BMPs that could qualify as required for this project:

- 13. To avoid attracting predators of the species of concern, the project site shall be kept as clean of debris as possible. All food-related trash items shall be enclosed in sealed containers and regularly removed from the site(s).
- 14. Construction employees shall strictly limit their activities, vehicles, equipment, and construction materials to the proposed project footprint and designated staging areas and routes of travel. The construction area(s) shall be the minimal area necessary to complete the project and shall be specified in the construction plans. Construction limits will be fenced with an orange snow screen. Exclusion fencing should be maintained until the completion of all construction activities. Employees shall be instructed that their activities are restricted to the construction areas.

#### **SECTION 4.0 - CONCLUSIONS AND RECOMMENDATIONS**

Based on the literature review and personal observations made in the immediate vicinity, no State and/or federally listed threatened or endangered species are documented/or expected to occur within the Project site. Additionally, no plant species with the California Rare Plant Rank (CRPR) of 1 or 2 were observed on-site or documented/expected to occur on-site. No other sensitive species were observed within the project area or buffer area.

There are no streams, channels, washes, or swales that meet the definitions of Section 1600 of the State of California Fish and Game Code (FGC) under the jurisdiction of the CDFW, Section 401 ("Waters of the State") of the Clean Water Act (CWA) under the jurisdiction of the Regional Water Quality Control Board (RWQCB), or "Waters of the United States" (WoUS) as defined by Section 404 of the CWA under the jurisdiction of the U.S. Army Corps of Engineers (Corps) within the subject parcel. Therefore, no permit from any regulatory agency will be required.

The site is not mapped within a criteria cell or subunit. The Project is also consistent with the MSHCP policies found in Section 6 which include Riparian/Riverine Areas/ Vernal Pools; Narrow Endemic Plant Species; Urban/Wildlands Interface; and Surveys for Special Status Species. The site is not located within an area mapped for Narrow Endemic or Criteria Area Plant Species, Special Status Species, Riparian/Riverine/Vernal Pools, and Urban/Wildlife Interface. Therefore, the Project is consistent with MSCHP policies and conditions.

Since there is some habitat within the project site and adjacent area that is suitable for nesting birds in general, a preconstruction nesting bird survey is recommended before the commencement of any project-related work activities, within nesting bird season, to avoid any potential project-related impacts to nesting birds.

I hereby certify that the statements furnished herein, and in the attached exhibits present data and information required for this analysis to the best of my ability, and the facts, statements, and information presented are true and correct to the best of my knowledge and belief. This report was prepared in accordance with professional requirements and standards. Fieldwork conducted for this assessment was performed by me. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project proponent and that I have no financial interest in the project.

Please do not hesitate to contact me at 909-534-4547 should you have any questions or require further information.

Sincerely,

Gene Jennings

Principal/Regulatory Specialist

Appendices:

Appendix A – Figures

Appendix B – Site Photos

Appendix C – Regulatory Framework

Appendix D – Tables

#### Section 5 - REFERENCES

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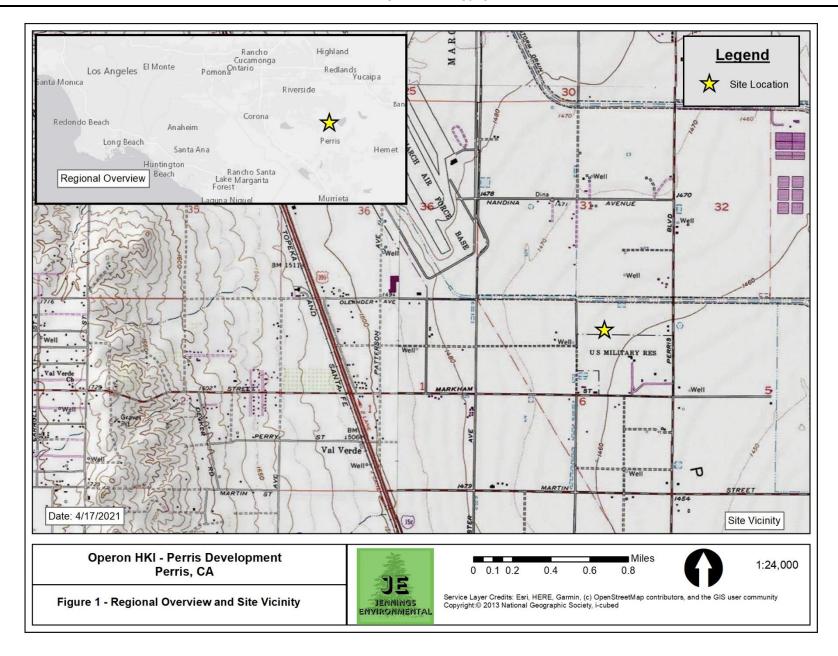
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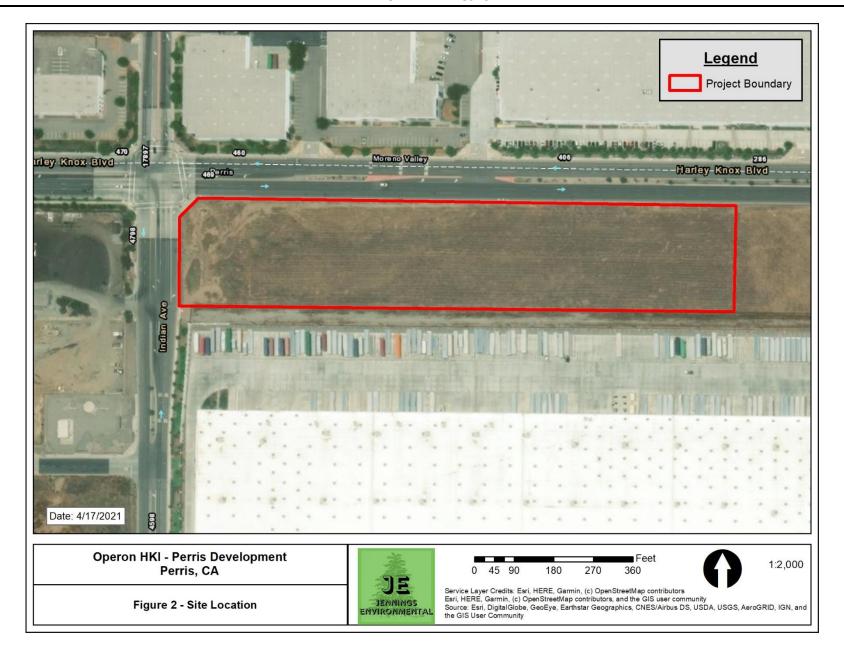
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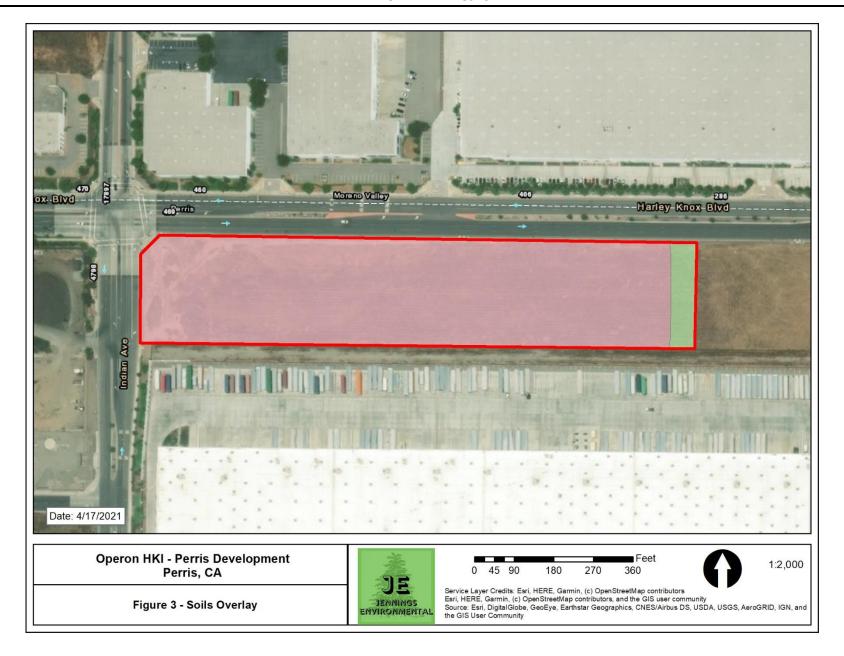
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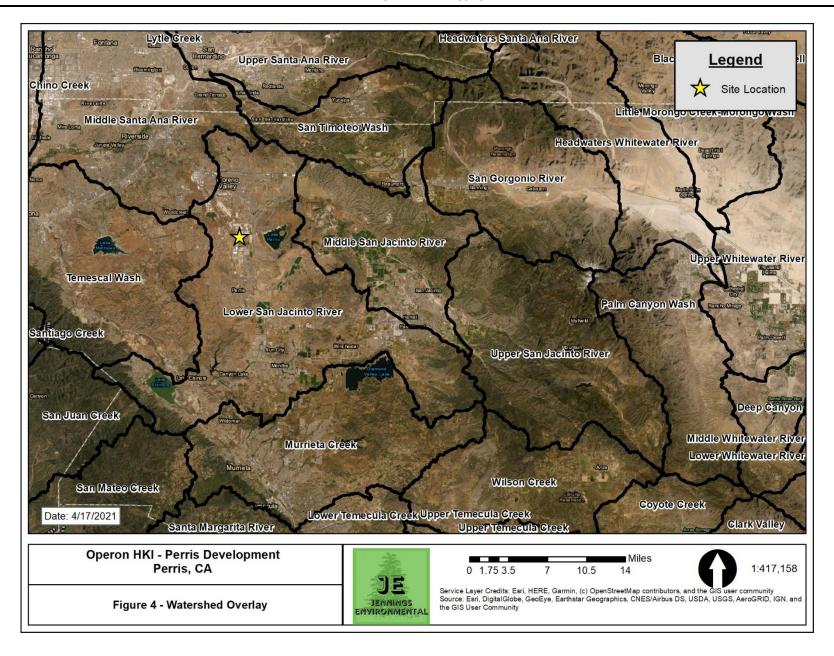
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**Appendix A - Figures** 









### **Appendix B - Photos**



Photo 1 –
Southwest corner
of parcel, facing
northeast.
Showing bare
ground and
ruderal vegetation.



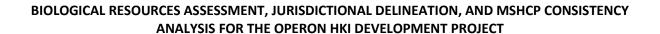
Photo 2 – Center portion of parcel, facing north.
Showing recent mowing activity and grasslands.



Photo 3 –
Southeast corner
of parcel, facing
northwest.
Showing mowing
activity and
ruderal vegetation.



Photo 4 – Center of parcel east.
Showing ruderal vegetation and evidence of recent vehicle traffic.



**Appendix C – Regulatory Framework** 

#### 1.1 FEDERAL JURISDICTION

### 1.1.1 United States Army Corps of Engineers

Pursuant to Section 404 of the CWA, the United States Army Corps of Engineers (USACE) regulates the discharge of dredged and/or fill material into waters of the United States. The term "waters of the United States" is defined by 33 Code of Federal Regulations (CFR) Part 328 and currently includes: (1) all navigable waters (including all waters subject to the ebb and flow of the tide), (2) all interstate waters and wetlands, (3) all other waters (e.g., lakes, rivers, intermittent streams) that could affect interstate or foreign commerce, (4) all impoundments of waters mentioned above, (5) all tributaries to waters mentioned above, (6) the territorial seas, and (7) all wetlands adjacent to waters mentioned above. Waters of the United States do not include (1) waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the Clean Water Act (CWA), and (2) prior converted cropland. Waters of the United States typically are separated into two types: (1) wetlands and (2) "other waters" (non-wetlands) of the United States.

Wetlands are defined by 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support ... a prevalence of vegetation typically adapted for life in saturated soil conditions." In 1987, USACE published a manual (1987 Wetland Manual) to guide its field personnel in determining jurisdictional wetland boundaries. This manual was amended in 2008 to the USACE 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (2008 Arid West Supplement). Currently, the 1987 Wetland Manual and the 2008 Arid West Supplement provide the legally accepted methodology for identification and delineation of USACE-jurisdictional wetlands in southern California.

In the absence of wetlands, the limits of USACE jurisdiction in nontidal waters, including intermittent Relatively Permanent Water (RPW) streams, extend to the Ordinary High Water Mark (OHWM), which is defined by 33 CFR 328.3(e) as:

... that line on the shore established by the fluctuation of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

On January 9, 2001, the U.S. Supreme Court ruled (in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers) (SWANCC) that USACE jurisdiction does not extend to previously regulated isolated waters, including but not limited to isolated ponds, reservoirs, and wetlands. Examples of isolated waters that are affected by this ruling include vernal pools, stock ponds, lakes (without outlets), playa lakes, and desert washes that are not tributary to navigable or interstate waters or to other jurisdictional waters. A joint legal memorandum by EPA and USACE was signed on January 15, 2003.

In May 2007, USACE and EPA jointly published and authorized the use of the Jurisdictional Determination Form Instructional Guidebook (USACE 2007). The form and guidebook define how to determine if an area is USACE jurisdictional and if a significant nexus exists per the Rapanos decision. A nexus must have more than insubstantial and speculative effects on the downstream TNW to be considered a significant nexus. This guidebook is updated by the 2008 Arid West Supplement, the 2010 Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States, and the 2011 Ordinary High Flows and the Stage-Discharge Relationship in the Arid West Region.

A joint guidance by EPA and USACE was issued on June 5, 2007, and revised on December 2, 2008, is consistent with the Supreme Court's decision in the consolidated cases Rapanos v. United States and Carabell v. United States (126 S. Ct. 2208 [2006]) (Rapanos), which addresses the jurisdiction over waters of the United States under the CWA (33 U.S.C. §1251 et seq.). A draft guidance was circulated in April 2011 to supercede both the 2003 SWANCC guidance and 2008 Rapanos decision; however, this guidance is not finalized and lacks the force of law.

USACE will continue to assert jurisdiction over Traditionally Navigable Waters (TNWs), wetlands adjacent to TNW, non-navigable tributaries of TNW that are Relatively Permanent Waters (RPW) where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months), and wetlands that directly abut such tributaries.

USACE generally will not assert jurisdiction over swales or erosional features (e.g., gullies or small washes characterized by low volume, infrequent, or short duration flow) or nontidal drainage ditches (including roadside ditches) that are (1) excavated wholly in and draining only uplands and (2) that do not carry a relatively permanent flow of water. USACE defines a drainage ditch as:

A linear excavation or depression constructed for the purpose of conveying surface runoff or groundwater from one area to another. An "upland drainage ditch" is a drainage ditch constructed entirely in uplands (i.e., not in waters of the United States) and is not a water of the United States, unless it becomes tidal or otherwise extends the ordinary high water line of existing waters of the United States.

Furthermore, USACE generally does not consider "[a]rtificially irrigated areas which would revert to upland if the irrigation ceased" to be subject to their jurisdiction. Such irrigation ditches are linear excavations constructed for the purpose of conveying agricultural water from the adjacent fields. Therefore, such agricultural ditches are not considered to be subject to USACE jurisdiction.

USACE will use fact-specific analysis to determine whether waters have a significant nexus with (1) TNW for nonnavigable tributaries that are not relatively permanent (non-RPW); (2) wetlands adjacent to nonnavigable tributaries that are not relatively permanent; and (3) wetlands adjacent to, but that do not directly abut, a relatively permanent nonnavigable tributary. According to USACE, "a significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to

determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters," including consideration of hydrologic and ecologic factors. A primary component of this determination lies in establishing the connectivity or lack of connectivity of the subject drainages to a TNW.

### 1.2 STATE JURISDICTION

The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the CWA as well as the California Porter-Cologne Water Quality Control Act (Porter-Cologne; California Water Code, Division 7, §13000 et seq.). Waters of the State are defined by Porter-Cologne as "any surface water or groundwater, including saline waters, within the boundaries of the state" (Water Code Section 13050(e)). Waters of the State broadly includes all waters within the State's boundaries (public or private), including waters in both natural and artificial channels.

### 1.2.1 Regional Water Quality Control Board

Under Porter-Cologne, the State Water Resources Control Board (SWRCB) and the local Regional Water Quality Control Boards (RWQCB) regulate the discharge of waste into waters of the State. Discharges of waste include "fill, any material resulting from human activity, or any other 'discharge' that may directly or indirectly impact 'waters of the state.'" Porter-Cologne reserves the right for the State to regulate activities that could affect the quantity and/or quality of surface and/or groundwaters, including isolated wetlands, within the State. Wetlands were defined as waters of the State if they demonstrated both wetland hydrology and hydric soils. Waters of the State determined to be jurisdictional for these purposes require, if impacted, waste discharge requirements (WDRs).

When an activity results in fill or discharge directly below the OHWM of jurisdictional waters of the United States (federal jurisdiction), including wetlands, a CWA Section 401 Water Quality Certification is required. If a proposed project is not subject to CWA Section 401 certification but involves activities that may result in a discharge to waters of the State, the project may still be regulated under Porter-Cologne and may be subject to waste discharge requirements. In cases where waters apply to both CWA and Porter-Cologne, RWQCB may consolidate permitting requirements to one permit.

### 1.2.2 California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, the California Department of Fish and Wildlife (CDFW) regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other

aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation" (California Code of Regulations, Title 14, Section 1.72). The jurisdiction of CDFW may include areas in or near intermittent streams, ephemeral streams, rivers, creeks, dry washes, sloughs, blue-line streams that are indicated on USGS maps, watercourses that may contain subsurface flows, or within the flood plain of a water body. CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." CDFW limits of jurisdiction typically include the maximum extents of the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

In a CDFW guidance of stream processes and forms in dryland watersheds (Vyverberg 2010), streams are identified as having one or more channels that may all be active or receive water only during some high flow event. Subordinate features, such as low flow channels, active channels, banks associated with secondary channels, floodplains, and stream-associated vegetation, may occur within the bounds of a single, larger channel. The water course is defined by the topography or elevations of land that confine a stream to a definite course when its waters rise to their highest level. A watercourse is defined as a stream with boundaries defined by the maximal extent or expression on the landscape even though flow may otherwise be intermittent or ephemeral.

Artificial waterways such as ditches (including roadside ditches), canals, aqueducts, irrigation ditches, and other artificially created water conveyance systems also may be under the jurisdiction of CDFW. CDFW may claim jurisdiction over these features based on the presence of habitat characteristics suitable to support aquatic life, riparian vegetation, and/or stream-dependent terrestrial wildlife. As with natural waterways, the limit of CDFW jurisdiction of artificial waterways includes the uppermost bank-to-bank distance and/or the outermost extent of riparian vegetation dripline, whichever measurement is greater.

CDFW does not have jurisdiction over wetlands but has jurisdiction to protect against a net loss of wetlands. CDFW supports the wetland criteria recognized by USFWS; one or more indicators of wetland conditions must exist for wetlands conditions to be considered present. The following is the USFWS accepted definition of a wetland:

Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the lands supports hydrophytes, (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated withwater or covered by shallow water at some time during the growing season of each year (Cowardin et al. 1979).

In A Clarification of the U.S. Fish and Wildlife Service's Wetland Definition (Tiner 1989), the USFWS definition was further clarified "that in order for any area to be classified as wetland by the Service, the area must be periodically saturated or covered by shallow water, whether wetland vegetation and/or hydric soils are present or not; this hydrologic requirement is

addressed in the first sentence of the definition." When considering whether an action would result in a net loss of wetlands, CDFW will extend jurisdiction to USFWS-defined wetland conditions where such conditions exist within the riparian vegetation that is associated with a stream or lake and does not depend on whether those features meet the three-parameter USACE methodology of wetland determination. If impacts to wetlands under the jurisdiction of CDFW are unavoidable, a mitigation plan will be implemented in coordination with CDFW to support the CDFW policy of "no net loss" of wetland habitat.

Appendix D – Tables

### **Table 1. Species Observed On-Site**

Common Name Scientific Name

Plants	
Stinknet	Oncosiphon pilulifer
Wall barley	Hordeum murinum
Coastal heron's bill	Erodium cicutarium
Common fiddleneck	Amsinckia intermedia
London rocket	Sisymbrium irio
Common sunflower	Helianthus annuus
Birds	
House sparrow	Passer domesticus
Northern mockingbird	Mimus polyglottos

Table 2 – CNDDB Potential to Occur

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
					Suitable habitat for this species
					does not occur on site. As such,
Abronia villosa	chaparral sand-		G5T2?, S2,	Chaparral, coastal scrub, desert	this species is considered absent
var. aurita	verbena	None, None	1B.1	dunes. Sandy areas60-1570 m.	from the Project site.
				Highly colonial species, most	
				numerous in Central Valley & vicinity.	
				Largely endemic to California.	
				Requires open water, protected	Suitable habitat for this species
			G1G2,	nesting substrate, and foraging area	does not occur on site. As such,
Agelaius	tricolored	None,	S1S2,	with insect prey within a few km of	this species is considered <b>absent</b>
tricolor	blackbird	Threatened	CDFW-SSC	the colony.	from the Project site.
				Resident in Southern California	
	southern			coastal sage scrub and sparse mixed	Suitable habitat for this species
Aimophila	California			chaparral. Frequents relatively steep,	does not occur on site. As such,
ruficeps	rufous-crowned		G5T3, S3,	often rocky hillsides with grass and	this species is considered <b>absent</b>
canescens	sparrow	None, None	CDFW-WL	forb patches.	from the Project site.
				Generally south of the Transverse	
				Range, extending to northwestern	
				Baja California. Occurs in sandy or	
				loose loamy soils under sparse	
				vegetation. Disjunct populations in	
				the Tehachapi and Piute Mountains in	
				Kern County. Variety of habitats;	Suitable habitat for this species
	Southern			generally in moist, loose soil. They	does not occur on site. As such,
Anniella	California legless		G3, S3,	prefer soils with a high moisture	this species is considered <b>absent</b>
stebbinsi	lizard	None, None	CDFW-SSC	content.	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
				Patchily distributed from the eastern	
				portion of San Francisco Bay,	
				southern San Joaquin Valley, and the	
				Coast, Transverse, and Peninsular	
				ranges, south to Baja California.	Suitable habitat for this species
Arizona				Generalist reported from a range of	does not occur on site. As such,
elegans	California glossy		G5T2, S2,	scrub and grassland habitats, often	this species is considered absent
occidentalis	snake	None, None	CDFW-SSC	with loose or sandy soils.	from the Project site.
				Inhabits low-elevation coastal scrub,	
				chaparral, and valley-foothill	
				hardwood habitats. Prefers washes	Suitable habitat for this species
				and other sandy areas with patches of	does not occur on site. As such,
Aspidoscelis	orange-throated		G5, S2S3,	brush and rocks. Perennial plants	this species is considered <b>absent</b>
hyperythra	whiptail	None, None	CDFW-WL	necessary for its major food: termites.	from the Project site.
				Found in deserts and semi-arid areas	
				with sparse vegetation and open	Suitable habitat for this species
				areas. Also found in woodland &	does not occur on site. As such,
Aspidoscelis			G5T5, S3,	riparian areas. Ground may be firm	this species is considered <b>absent</b>
tigris stejnegeri	coastal whiptail	None, None	CDFW-SSC	soil, sandy, or rocky.	from the Project site.
				Open, dry annual or perennial	
				grasslands, deserts, and scrublands	
				characterized by low-growing	
				vegetation. Subterranean nester,	Suitable habitat for this species
				dependent upon burrowing	does not occur on site. As such,
Athene			G4, S3,	mammals, most notably, the	this species is considered <b>absent</b>
cunicularia	burrowing owl	None, None	CDFW-SSC	California ground squirrel.	from the Project site.
					Suitable habitat for this species
Atriplex	San Jacinto			Playas, valley and foothill grassland,	does not occur on site. As such,
coronata var.	Valley	Endangered,	G4T1, S1,	vernal pools. Alkaline areas in the San	this species is considered <b>absent</b>
notatior	crownscale	None	1B.1	Jacinto River Valley. 35-460 m.	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
					Suitable habitat for this species
				Vernal pools, chenopod scrub, playas.	does not occur on site. As such,
Atriplex	Parish's		G1G2, S1,	Usually on drying alkali flats with fine	this species is considered absent
parishii	brittlescale	None, None	1B.1	soils. 4-1420 m.	from the Project site.
					Suitable habitat for this species
Atriplex					does not occur on site. As such,
serenana var.	Davidson's		G5T1, S1,	Coastal bluff scrub, coastal scrub.	this species is considered absent
davidsonii	saltscale	None, None	1B.2	Alkaline soil. 0-480 m.	from the Project site.
				Coastal California east to the Sierra-	
				Cascade crest and south into Mexico.	
				Food plant genera include	Suitable habitat for this species
		None,		Antirrhinum, Phacelia, Clarkia,	does not occur on site. As such,
Bombus	Crotch bumble	Candidate	G3G4,	Dendromecon, Eschscholzia, and	this species is considered absent
crotchii	bee	Endangered	S1S2,	Eriogonum.	from the Project site.
				Chaparral (openings), cismontane	
				woodland, coastal scrub, playas,	
				valley and foothill grassland, vernal	
				pools. Usually associated with annual	
				grassland and vernal pools; often	Suitable habitat for this species
				surrounded by shrubland habitats.	does not occur on site. As such,
Brodiaea	thread-leaved	Threatened,	G2, S2,	Occurs in openings on clay soils. 15-	this species is considered <b>absent</b>
filifolia	brodiaea	Endangered	1B.1	1030 m.	from the Project site.
				Chaparral, coastal scrub. Frequently	
				in burned areas, or in disturbed sites	Suitable habitat for this species
				such as streambeds; also on rocky,	does not occur on site. As such,
Caulanthus	Payson's			steep slopes. Sandy, granitic soils. 90-	this species is considered <b>absent</b>
simulans	jewelflower	None, None	G4, S4, 4.2	2200 m.	from the Project site.
				Valley and foothill grassland,	
				chenopod scrub, meadows and seeps,	Suitable habitat for this species
Centromadia				playas, riparian woodland. Alkali	does not occur on site. As such,
pungens ssp.			G3G4T2,	meadow, alkali scrub; also in	this species is considered <b>absent</b>
laevis	smooth tarplant	None, None	S2, 1B.1	disturbed places. 5-1170 m.	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
				Coastal scrub, chaparral, grasslands,	
				sagebrush, etc. in western San Diego	Suitable habitat for this species
	northwestern		G5T3T4,	County. Sandy, herbaceous areas,	does not occur on site. As such,
Chaetodipus	San Diego		S3S4 <i>,</i>	usually in association with rocks or	this species is considered <b>absent</b>
fallax fallax	pocket mouse	None, None	CDFW-SSC	coarse gravel.	from the Project site.
				Chaparral, coastal scrub, meadows	Suitable habitat for this species
Chorizanthe				and seeps, valley and foothill	does not occur on site. As such,
polygonoides	long-spined		G5T3, S3,	grassland, vernal pools. Gabbroic clay.	this species is considered <b>absent</b>
var. longispina	spineflower	None, None	1B.2	30-1630 m.	from the Project site.
				Chaparral, woodland, grassland, &	
				desert areas from coastal San Diego	
				County to the eastern slopes of the	
				mountains. Occurs in rocky areas and	Suitable habitat for this species
				dense vegetation. Needs rodent	does not occur on site. As such,
	red-diamond		G4, S3,	burrows, cracks in rocks or surface	this species is considered <b>absent</b>
Crotalus ruber	rattlesnake	None, None	CDFW-SSC	cover objects.	from the Project site.
				Primarily annual & perennial	
				grasslands, but also occurs in coastal	
				scrub & sagebrush with sparse	Suitable habitat for this species
				canopy cover. Prefers buckwheat,	does not occur on site. As such,
Dipodomys	Stephens'	Endangered,		chamise, brome grass and filaree.	this species is considered <b>absent</b>
stephensi	kangaroo rat	Threatened	G2, S2	Will burrow into firm soil.	from the Project site.
				A thoroughly aquatic turtle of ponds,	
				marshes, rivers, streams and	
				irrigation ditches, usually with aquatic	
				vegetation, below 6000 ft elevation.	
				Needs basking sites and suitable	Suitable habitat for this species
				(sandy banks or grassy open fields)	does not occur on site. As such,
Emys	western pond		G3G4, S3,	upland habitat up to 0.5 km from	this species is considered <b>absent</b>
marmorata	turtle	None, None	CDFW-SSC	water for egg-laying.	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
				Coastal regions, chiefly from Sonoma	
				County to San Diego County. Also	
				main part of San Joaquin Valley and	
				east to foothills. Short-grass prairie,	Suitable habitat for this species
				"bald" hills, mountain meadows,	does not occur on site. As such,
Eremophila	California		G5T4Q, S4,	open coastal plains, fallow grain	this species is considered <b>absent</b>
alpestris actia	horned lark	None, None	CDFW-WL	fields, alkali flats.	from the Project site.
				Many open, semi-arid to arid	
				habitats, including conifer &	
				deciduous woodlands, coastal scrub,	Suitable habitat for this species
Eumops			G4G5T4,	grasslands, chaparral, etc. Roosts in	does not occur on site. As such,
perotis	western mastiff		S3S4,	crevices in cliff faces, high buildings,	this species is considered <b>absent</b>
californicus	bat	None, None	CDFW-SSC	trees and tunnels.	from the Project site.
				Found in valley foothill riparian,	
				desert riparian, desert wash, and	Suitable habitat for this species
				palm oasis habitats. Roosts in trees,	does not occur on site. As such,
Lasiurus	western yellow		G4G5, S3,	particularly palms. Forages over	this species is considered <b>absent</b>
xanthinus	bat	None, None	CDFW-SSC	water and among trees.	from the Project site.
				Coastal salt marshes, playas, vernal	Suitable habitat for this species
Lasthenia				pools. Usually found on alkaline soils	does not occur on site. As such,
glabrata ssp.	Coulter's		G4T2, S2,	in playas, sinks, and grasslands. 1-	this species is considered absent
coulteri	goldfields	None, None	1B.1	1375 m.	from the Project site.
				Intermediate canopy stages of shrub	
				habitats & open shrub / herbaceous	Suitable habitat for this species
Lepus			G5T3T4,	& tree / herbaceous edges. Coastal	does not occur on site. As such,
californicus	San Diego black-		S3S4 <i>,</i>	sage scrub habitats in Southern	this species is considered absent
bennettii	tailed jackrabbit	None, None	CDFW-SSC	California.	from the Project site.
				Vernal pools, chenopod scrub,	Suitable habitat for this species
				marshes and swamps, playas. San	does not occur on site. As such,
Navarretia	spreading	Threatened,	G2, S2,	Diego hardpan and San Diego claypan	this species is considered absent
fossalis	navarretia	None	1B.1	vernal pools; in swales & vernal pools,	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
				often surrouded by other habitat	
				types. 15-850 m.	
					Suitable habitat for this species
				Known only from localities in	does not occur on site. As such,
	white cuckoo			Southern California. Cleptoparasitic in	this species is considered <b>absent</b>
Neolarra alba	bee	None, None	GH, SH	the nests of perdita bees.	from the Project site.
				Desert areas, especially scrub habitats	
				with friable soils for digging. Prefers	
				low to moderate shrub cover. Feeds	Suitable habitat for this species
Onychomys	southern			almost exclusively on arthropods,	does not occur on site. As such,
torridus	grasshopper		G5T3, S3,	especially scorpions and orthopteran	this species is considered <b>absent</b>
ramona	mouse	None, None	CDFW-SSC	insects.	from the Project site.
				Lower elevation grasslands and	
				coastal sage communities in and	
				around the Los Angeles Basin. Open	
				ground with fine, sandy soils. May	Suitable habitat for this species
Perognathus			G5T2,	not dig extensive burrows, hiding	does not occur on site. As such,
longimembris	Los Angeles		S1S2,	under weeds and dead leaves	this species is considered <b>absent</b>
brevinasus	pocket mouse	None, None	CDFW-SSC	instead.	from the Project site.
				Frequents a wide variety of habitats,	
				most common in lowlands along	
				sandy washes with scattered low	
			6264	bushes. Open areas for sunning,	Suitable habitat for this species
			G3G4,	bushes for cover, patches of loose soil	does not occur on site. As such,
Phrynosoma	coast horned		S3S4,	for burial, and abundant supply of	this species is considered <b>absent</b>
blainvillii	lizard	None, None	CDFW-SSC	ants and other insects.	from the Project site.

Scientific		Federal/State	Other		
Name	Common Name	Status	Status	Habitat	Potential to Occur
				Obligate, permanent resident of	
				coastal sage scrub below 2500 ft in	
				Southern California. Low, coastal sage	Suitable habitat for this species
Polioptila	coastal		G4G5T3Q,	scrub in arid washes, on mesas and	does not occur on site. As such,
californica	California	Threatened,	S2, CDFW-	slopes. Not all areas classified as	this species is considered absent
californica	gnatcatcher	None	SSC	coastal sage scrub are occupied.	from the Project site.
				Occurs primarily in grassland habitats,	
				but can be found in valley-foothill	Suitable habitat for this species
				hardwood woodlands. Vernal pools	does not occur on site. As such,
Spea	western		G2G3, S3,	are essential for breeding and egg-	this species is considered absent
hammondii	spadefoot	None, None	CDFW-SSC	laying.	from the Project site.
				Most abundant in drier open stages	
				of most shrub, forest, and herbaceous	
				habitats, with friable soils. Needs	Suitable habitat for this species
				sufficient food, friable soils and open,	does not occur on site. As such,
	American		G5, S3,	uncultivated ground. Preys on	this species is considered <b>absent</b>
Taxidea taxus	badger	None, None	CDFW-SSC	burrowing rodents. Digs burrows.	from the Project site.
				Marshes and swamps, riparian forest,	Suitable habitat for this species
Trichocoronis				meadows and seeps, vernal pools.	does not occur on site. As such,
wrightii var.	Wright's		G4T3, S1,	Mud flats of vernal lakes, drying river	this species is considered <b>absent</b>
wrightii	trichocoronis	None, None	2B.1	beds, alkali meadows. 5-435 m.	from the Project site.
				Summer resident of Southern	
				California in low riparian in vicinity of	
				water or in dry river bottoms; below	
				2000 ft. Nests placed along margins	Suitable habitat for this species
				of bushes or on twigs projecting into	does not occur on site. As such,
Vireo bellii		Endangered,		pathways, usually willow, Baccharis,	this species is considered <b>absent</b>
pusillus	least Bell's vireo	Endangered	G5T2, S2	mesquite.	from the Project site.

#### **Coding and Terms**

E = Endangered T = Threatened C = Candidate FP = Fully Protected SSC = Species of Special Concern R = Rare

- State Species of Special Concern: An administrative designation given to vertebrate species that appear to be vulnerable to extinction because of declining populations, limited acreages, and/or continuing threats. Raptor and owls are protected under section 3502.5 of the California Fish and Game code: "It is unlawful to take, possess or destroy any birds in the orders Falconiformes or Strigiformes or to take, possess or destroy the nest or eggs of any such bird."
- State Fully Protected: The classification of Fully Protected was the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians and reptiles. Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

#### Global Rankings (Species or Natural Community Level):

- G1 = Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors,
- G4 = Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure Common; widespread and abundant.
- ? = Uncertainty in the exact status of an element (could move up or down one direction from current rank)

**Subspecies Level:** Taxa which are subspecies or varieties receive a taxon rank (T-rank) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

#### State Ranking:

- S1 = Critically Imperiled Critically imperiled in the State because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
- S2 = Imperiled Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the State.
- S3 = Vulnerable Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the State.
- S4 = Apparently Secure Uncommon but not rare in the State; some cause for long-term concern due to declines or other factors.
- S5 = Secure Common, widespread, and abundant in the State.

#### California Rare Plant Rankings (CNPS List):

- 1A = Plants presumed extirpated in California and either rare or extinct elsewhere.
- 1B = Plants rare, threatened, or endangered in California and elsewhere.
- 2A = Plants presumed extirpated in California, but common elsewhere.
- 2B = Plants rare, threatened, or endangered in California, but more common elsewhere.
- 3 = Plants about which more information is needed; a review list.
- 4 = Plants of limited distribution; a watch list.

#### **Threat Ranks:**

- .1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- .3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)