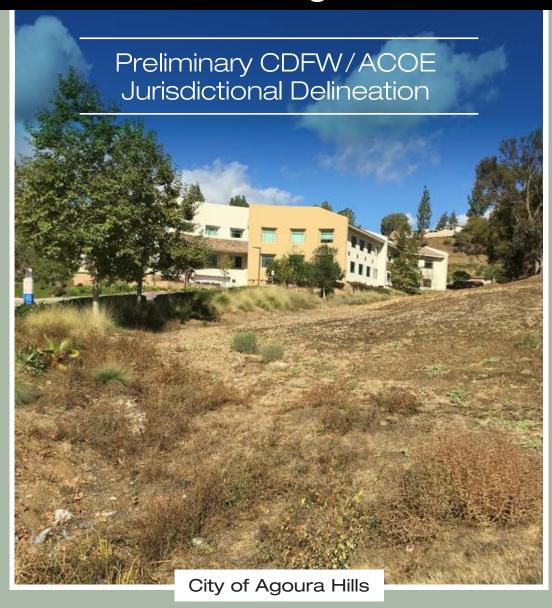
## Preliminary CDFW and ACOE Jurisdictional Delineation

## Oakmont of Agoura Hills



PREPARED FOR:

## City of Agoura Hills

3000 Ladyface Court Agoura Hills, CA 91301 Attn: Ms. Allison Cook

(818) 597-7310

PREPARED BY:



4165 E. Thousand Oaks Blvd., Suite 290 Westlake Village, California 91362 Attn: Mr. Tyler Barns, Project Manager

(818) 879-4700

# PRELIMINARY CDFW/ACOE JURISDICTIONAL DELINEATION

### **Oakmont of Agoura Hills Project**

City of Agoura Hills Santa Monica Mountains, County of Los Angeles, California

#### Prepared for:

#### **CITY OF AGOURA HILLS**

3000 Ladyface Court Agoura Hills, CA 91301 Attn: Ms. Allison Cook (818) 597-7310

#### Prepared by:

#### **ENVICOM CORPORATION**

4165 E. Thousand Oaks Boulevard, Suite 290 Westlake Village, California 91362 Attn: Mr. Tyler Barns (818) 879-4700

SECTION		<u>PAGE</u>
1.0 INTROI	DUCTION	1
2.0 METHO	DS	6
3.0 DELINE	EATION RESULTS	12
4.0 IMPAC	TS AND MITIGATION	16
5.0 CONCL	USION	20
6.0 REFER	ENCES	21
FIGURES Figure 1 Figure 2 Figure 3 Figure 4 Figure 5 Figure 6 Figure 7 Figure 8 Figure 9	Regional Location Map U.S.G.S. Project Location Aerial of the Project Site and View Locations Representative Photos of the Project Site Representative Photos of the Project Site National Wetlands Inventory Data NRCS Soils Jurisdictional Delineation Map Jurisdictional Delineation Impact Map	2 3 5 X 8 9 14 19
TABLES Table 1 Table 2 Table 3	Dominant Plant Species Including Wetland Indicator Status at All Plot Locations Potential Jurisdictional Feature in Survey Area Impacts to ACOE and CDFW Jurisdictional Areas	13 15 16
	paste to 1.000 and obj 11 danidational aload	

### **APPENDICES**

Appendix 1 Site Plan, Huitt-Zollars, August 8, 2017 Appendix 2 Wetland Determination Data Forms

#### 1.0 INTRODUCTION

#### 1.1 Purpose of the Study

The City of Agoura Hills (City) engaged Envicom Corporation (Envicom) to complete a jurisdictional delineation for the proposed Oakmont Of Agoura Hills Project (project) to satisfy the requirements of the California Department of Fish and Wildlife (CDFW) under California Fish and Game Code section 1600 et seq., Regional Water Quality Control Board (RWQCB) Water Quality Certification under Section 401 of the Clean Water Act (CWA), and U.S. Army Corps of Engineers (ACOE) under Section 404 of the CWA.

This report provides a delineation of aquatic features that meet the physical criteria and regulatory definitions of "Waters of the United States" (WOUS) and "Waters of the State of California" (WOS), and associated riparian habitat.

#### 1.2 Site Location and Project Description

The project site is a semi-developed lot (APN 2053-001-005) located at 29353 Canwood Street (APN 2053-001-005) immediately north of US Highway 101 between the Reyes Adobe Road and Kanan Road off ramps between the SW 1/4 of Section 21 and the NW 1/4 of Section 28, T1N, R18W (USGS Thousand Oaks 7.5' quadrangle), as shown on **Figure 1**, **Regional Location Map** and **Figure 2**, **USGS Project Location**. The approximately 5.75-acre project site is bounded by the Center Court Medical Plaza to the west, private, single-family homes and a large grassy area sit atop a hill to the north. Canwood Street lies immediately south, and undeveloped land lies immediately to the east

Based on the information provided in the project's Application, we understand the project includes the construction of a new two-story senior center and associated infrastructure and landscaping and. A site plan prepared by Huitt-Zollars dated August 8, 2017 is provided as **Appendix 1.** 

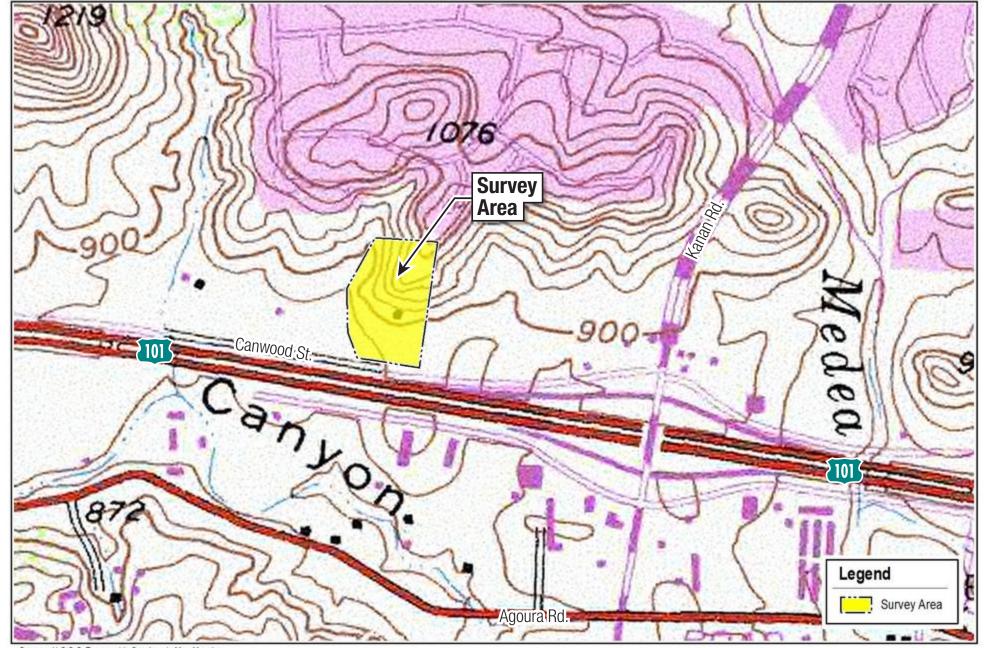
#### 1.3 Site and Study Area Characteristics

The project site is situated in the inland foothills of the Santa Monica Mountains at elevations ranging from 880 to 1,000 feet above mean sea level. The eastern portion of the property is generally dry and exposed (south-facing), while the eastern portion of the property supports mesic vegetation associated with the creek. The study area includes the previously delineated ephemeral drainage and the extent of associated riparian canopy along the western portion of the subject parcel.



Source: ESRI Open Street Map background imagery, 2016.

OAKMONT OF AGOURA HILLS - JURISDICTIONAL DELINEATION REPORT



Sources: U.S.G.S. Topographic Quadrangle Map Mosaic.

OAKMONT OF AGOURA HILLS - JURISDICTIONAL DELINEATION REPORT



An un-named, non-blue line stream drainage traverses north to south through the western portion of the project site, supporting a small, well-developed riparian community. During storm events, drainage from an offsite location may contribute to this developed community via terrace drains leading to the head of the drainage. The riparian woodland consists primarily of coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*) and arroyo willow (*Salix lasiolepis*). The survey area abuts the Center Court Medical Plaza on the west (**Figure 3, Aerial of the Project Site and View Locations**). Representative photographs to depict site conditions, and those at each soil test pit and plot location are presented in **Figures 4 and 5**.

The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) do not list the portion of the drainage within the study area as wetland feature. Nonetheless, because the drainage presumably connects via the culvert under Canwood Street with Medea Creek, a regulated water body south of project site, the portion within the subject property would likely be subject to CDFW, United States Army Corps of Engineers (ACOE), and Regional Water Quality Control Board (RWQCB) regulations.

Average annual precipitation is approximately 18.67 inches per year and runoff from upland areas discharges into the creek and flows south to the Pacific Ocean. Annual average temperature in the vicinity of the study area is 63.8 degrees Fahrenheit (°F). Average low temperature is 55.9°F and average high temperature is 71.7°F (US Climate Data 2016). Total rainfall for the Los Angeles area from January 1, 2016 to September 25, 2016 was approximately 6.57 inches.

#### **Directions to the Project Site**

Directions to the survey area are provided from the ACOE Los Angeles office located at 915 Wilshire Blvd, Los Angeles, California to 29353 Canwood Street.

- 1. Turn left onto Wilshire Blvd and merge onto I-405 N
- 2. Merge onto US-101 North toward Ventura, keep left toward Ventura
- 3. Take Exit 36 onto Kanan Road
- 4. Continue straight onto Canwood Street
- 5. Left on North Highland Avenue
- 6. Continue on Canwood Street for 0.3 miles to the site.

#### **Contact Information**

The City of Agoura Hills is the Lead Agency for permitting and compliance under the California Environmental Quality Act. Contact information for the City and the biological consultant are provided below.

Lead Agency	Biological Consultant
City of Agoura Hills	Envicom Corporation
Ms. Allison Cook	Tyler Barns
3000 Ladyface Court	4165 E. Thousand Oaks Boulevard, Suite 290
Agoura Hills, CA 91301	Westlake Village, CA 91362
Office: (818) 597-7310	Office: (818) 879-4700



Aerial Source: USGS High Resolution Orthornagery: http://viewer.nationalmap.gov/basic



**Photo 1** – View to the north illustrating the ephemeral drainage south of the oak-willow riparian woodland. Non-native bristly-ox tongue (*Helminthotheca echioides*), tumbleweed (*Salsola australis*), and planted deergrass (*Muhlenbergia* sp.) line the drainage.



**Photo 2** – View to the south of the culvert under Canwood Street at the southern terminus of the ephemeral drainage. The drainage is supplemented by irrigation runoff from the adjacent medical plaza.



**Photo 3** – View to the south illustrating the disced overland sheet flow area where the drainage is poorly defined. Facultative bristly-ox tongue dominates the western drainage limit at the toe of the manufactured slope.



**Photo 4** – View to the north illustrating the poorly defined channel and the adjacent (west) medical plaza with landscape plantings.



**Photo 5** – View to the southwest illustrating the southernmost portion of the Baltic rush (*Juncus balticus*) patch and the northern portion of the drainage.



**Photo 6** – Photo to the north illustrating the understory of the oak-willow riparian woodland.



**Photo 7** – Photo to the northwest illustrating the drought-stress remains of a previously robust rush wetland area. The area is transitioning to a drier ecotype as evidenced by the emergence of valley oak and coast live oak saplings.



**Photo 2D** – Photo of the wetland area associated with the medical plaza culvert outfall. This area had standing water and supported a robust collection of hydrophytic vegetation including non-native dock (*Rumex* sp.) and willow herb (*Epilobium ciliatum* ssp. *ciliatum*).

#### 2.0 METHODS

An onsite investigation to delineate the amount and type of jurisdictional waters and riparian habitat was conducted on October 31, 2016, in accordance with the 1987 ACOE Wetlands Delineation Manual (ACOE 1987), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (ACOE 2008a), A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (ACOE 2008b), and A Field Guide to Mapping Episodic Stream Activity [where applicable] (Brady and Vyverberg 2013). This investigation updates a previous delineation of the site completed by Envicom Corporation in 2005. Vascular plant species determinations were made using The Jepson Manual: Vascular Plants of California, 2<sup>nd</sup> edition. Natural community classifications were correlated with the List of Vegetation Alliances and Associations (Natural Communities List) (CDFW, September 2010). Vertebrate wildlife species observed at and in the vicinity of the site were identified by direct observation, sign (e.g., tracks, scat, or burrows), or vocalization. Wildlife species identification relied upon Reid (2006), Sibley (2009), and Stebbins (2003). Several photographs were taken as a record of site conditions at the time of the survey.

#### 2.1 Federal Jurisdiction

The ACOE, under Section 404 of the CWA, regulates the filling of WOUS, including associated wetlands (ACOE 1987). The ACOE defines wetlands as:

"those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas" (40 CFR 230.3(t))".

Wetlands are considered a subset of WOUS. This broad term incorporates aquatic systems that fall under the regulatory jurisdiction of the CWA (Section 404) and the Rivers and Harbors Act (Section 10), including deep-water aquatic habitats and special aquatic sites such as wetlands and mudflats (ACOE 1987). Waters of the US include the territorial sea, coastal and inland waters, lakes, rivers, and streams.

#### 2.2 State Jurisdiction

The California State Water Resources Control Board (SWRCB) and the RWQCB maintain regulatory responsibility for management of wetlands and waterbodies in California and may review wetland delineations in concert with the ACOE. With specific regard to wetlands, the delineation of boundaries of WOS is usually based on the ACOE's multi-parameter approach, as outlined in the 1987 Wetlands Delineation Manual and 2008 Regional Supplement. "Waters of the State" are defined in Section 13050 of the California Water Code as "any surface water or groundwater, including saline waters, within the boundaries of the state." Surface waters are non-tidal wetlands, rivers, streams, and lakes, estuarine wetlands, estuarine waters, and coastal waters, and include waters in both natural and artificial channels.

Pursuant to California Fish and Game Code Section 1600, CDFW has authority over all perennial, intermittent, and ephemeral rivers, streams, and lakes in the state, and requires any person, state or local governmental agency, or public utility to notify the CDFW before beginning any activity that would "substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake" that supports fish or wildlife resources.

A stream is defined 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 a surface or subsurface flow that supports or has supported riparian vegetation" (California Code of Regulations, Title 14 §1.72). A Lake or Streambed Alteration Agreement may be required for any proposed project that would result in an adverse impact to a river, stream, or lake. CDFW jurisdiction typically extends to the top of the bank and out to the outer edge of adjacent riparian vegetation, if present. However, CDFW can take jurisdiction over a body of flowing water and the landform that conveys it, including water sources and adjoining landscape elements that are byproducts of and affected by interactions with flowing water without regard to size, duration, or the timing of flow (Brady and Vyverberg 2013).

#### 2.3 Pre-Field Evaluation

Prior to engaging in fieldwork, Envicom staff reviewed background reference materials to familiarize personnel with the survey area and determine potential wetland, waterbody, and drainage areas to be further evaluated. These materials included historic and current aerial photographs (Google Earth 2016, Microsoft 2016), the NRCS web soil survey (USDA 2016), the National Hydrography Dataset (NHD), and the National Wetland Inventory (NWI) (USFWS 2016). NWI and NHD datasets provide representation of wetlands and other surface water features that may be present in an area (**Figure 6**, **National Hydrography Dataset and National Wetlands Inventory Data**). Soils in the area are illustrated in **Figure 7**, **NRCS Soils**. Database records are compiled from historic and contemporary data collection efforts, and thus they are a good starting point for indications of surface hydrology and soils; however, the data must be field verified as on-the-ground conditions are usually undergoing continuous anthropogenic modifications and aquatic features can be lost or highly altered.

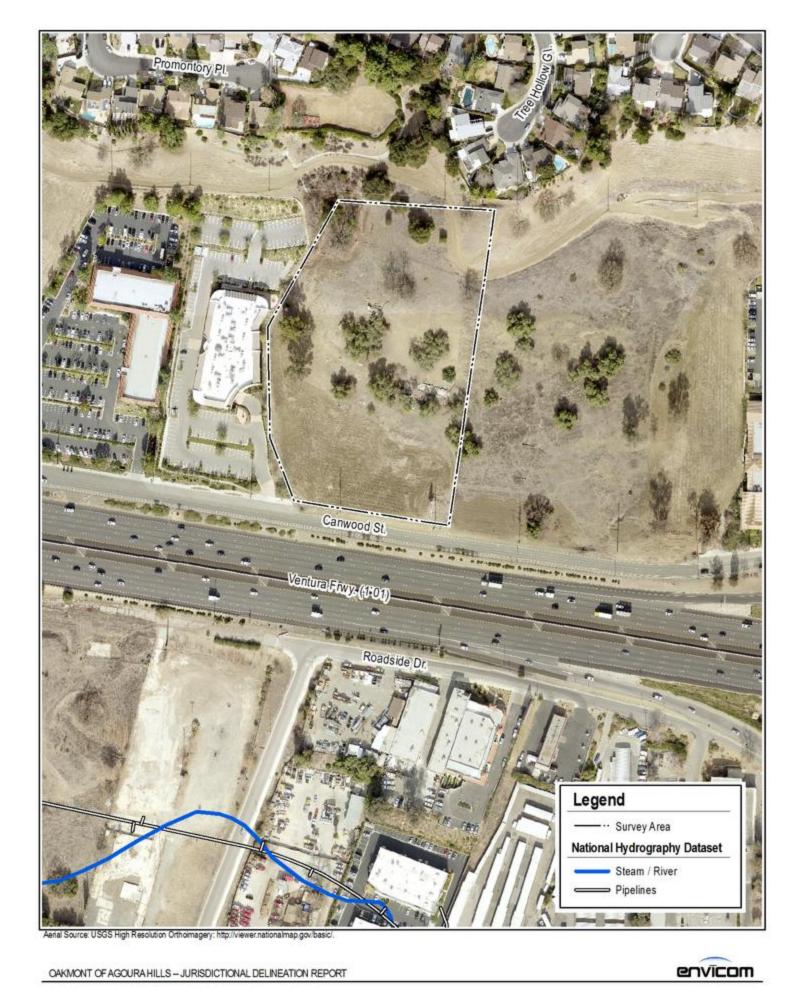
#### 2.4 Field Evaluation

After preliminary identification of potential wetland areas based on the pre-field evaluation with the aid of color aerial photographs and engineering-grade topographic maps, an Envicom wetland biologist examined the project site. Jurisdictional non-wetland WOUS (ACOE and RWQCB) include areas within onsite drainages below the plane of the ordinary high water mark, while CDFW jurisdictional areas extend from bank to bank, and include the landward edge of riparian vegetation, where present.

Test plots were recorded to determine the ACOE, RWQCB, and CDFW jurisdictional areas within the survey area. The plot locations were mapped with GPS coordinates, and the Wetland Determination Data Form was used to record observations of vegetation, soils and hydrology. The completed forms are included in **Appendix 2**. The test plot locations were mapped in the field using a Trimble GPS with submeter accuracy.

#### 2.5 Global Positioning System and Mapping

For this survey, Envicom used a Trimble R1 GNSS Receiver (sub-meter accuracy) Global Positioning System (GPS) unit with TerraFlex to map aquatic community boundaries. Information was exported to a database format using ArcGIS software and edited before linking with a geographic information system. All of the survey data was recorded in the WGS 1984 geographic coordinate system and then projected into the NAD-83 State Plane Zone 5 coordinate system for post-processing (e.g., GIS acreage calculations). The extent of CDFW riparian habitat was delineated based on measurements collected in the field and aerial imagery.



OAKMONT OF AGOURA HILLS - JURISDICTIONAL DELINEATION REPORT



Aerial Source: USGS High Resolution Orthoimagery: http://viewer.nationalmap.gov/basic. Data Source: NRCS Soils: http://iwebsoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

OAKMONT OF AGOURA HILLS - JURISDICTIONAL DELINEATION REPORT





#### 3.0 DELINEATION RESULTS

#### 3.1 Local Watershed

The survey area is located in the Medea Creek watershed (HUC 180701040102) within the larger Santa Monica Bay watershed (HUC 18070104). The un-named drainage conveys waters from upland residential areas and traverses through the property from north to south, en route to a culvert under US-101 to Medea Creek, and the Pacific Ocean.

#### 3.2 Local Soil Types

The survey area is characterized by two (2) soil type that primarily consist of loams and sandy/silt loams (Figure 5). A brief description of the soil type is given below:

- URBAN LAND-CROPLEY, FILL COMPLEX 0 TO 8 PERCENT SLOPES, COMMERCIAL (437) The Cropley series consists of very deep, moderately well and well drained soils that formed in alluvium from mixed rock sources. Cropley soils are on alluvial fans, floodplains and in small basins. Slopes range from 0 to 15 percent. This soil association does not meet hydric criteria.
- URBAN LAND-SAPWI, LANDSCAPED-KAWENGA, LANDSCAPED COMPLEX, 0 TO 20
  PERCENT SLOPES, RESIDENTIAL (452) The Kawenga and Sapwi series consists of
  moderately deep to bedrock, well drained soils that formed in residuum and colluvium derived
  from sandstone. Sapwi soils are on hills and mountains. Slopes are 15 to 75 percent. This soil
  association does not meet hydric criteria.

#### 3.3 Vegetation Communities

Habitats for plants and animals consist primarily of riparian woodland in the northern portion supplanted by annual and herbaceous cover in the remaining areas where it has been mechanically disced, or planted with landscape ornamentals and trees along the western property boundary.

The vegetative cover in the riparian area is virtually complete. This vegetation community is classified as valley oak woodland, which occurs valley bottoms seasonally saturated soils that may intermittently flooded, lower slopes, summit valleys. The drainage enters near the northwestern corner of the site where a terrace drain feeds surface water directly to the head of the drainage. Historically, the drainage may have continued further north, upstream, into the hills that are now developed as a residential subdivision and a system of terrace drains. The status of the flow regime of the original stream is unknown. Wetlands were identified within the riparian woodland in 2005 and were presumed to be fed by water associated with irrigation from private residences north of the project site that had percolated into the ground and either created, or augmented sub-surface water flows, emanating as a spring at the base of the fill slope. There, it flowed onto the surface under the riparian tree canopy, and saturates. Currently, there is no surface or subsurface flow of water within the riparian canopy and no wetlands were identified. The prolonged drought and related irrigation restrictions likely reduced the available water sources. Nevertheless, potential contributions from an unknown spring plus current irrigation practices continue to support a well-developed riparian community. Still, the lack of obligate wetland species and the emergence of coast live oak, European olive (Olea europaea), and Peruvian peppertree (Schinus molle) compared to species observed in 2005 suggest a transition to drier conditions.

The drainage continues south, downstream from the oak-willow woodland and contains a large patch of Baltic rush (*Juncus balticus*) (FACW), bristly ox-tongue (*Helminthotheca echioides*) (FAC) and an emergent valley oak. This vegetation community is classified as Baltic rush marsh, which occurs in wet and mesic meadows; along stream banks, rivers, lakes, ponds, fens, and sloughs; and freshwater, brackish, and alkaline marshes were soils are poorly drained, often with a thick, organic layer.

The remaining portion of the drainage continues south (downstream) from the Baltic rush marsh community and transitions into a native and non-native annual grasses and forbs vegetation community. Dominant species observed were various annual, non-native herbaceous plants such as bristly-ox tongue, Italian thistle (*Carduus pycnocephalus*), slender wild oats (*Avena barbata*) and Mediterranean mustard (*Hirschfeldia incana*). Few hydrophytic plants were observed, but not in numbers sufficient to meet the hydrophytic dominance criterion for wetland determination.

Two (2) small wetted areas were observed within the study area just north of the culvert and adjacent to a culvert outfall from the adjacent Center Court Medical Plaza. These areas supported hydrophytic species including southern cattail (*Typha domingensis*) (OBL) and a non-native dock (*Rumex* sp.) (OBL). The presence of these species appears to be directly attributable to irrigation and landscape practices from the adjacent development.

**Table 1, Dominant Plant Species Including Wetland Indicator Status at All Plot Locations**, lists the plant species that were determined to be dominant at the test plots, and gives their Wetland Indicator Status (Lichvar 2016).

<u>Table 1</u>
Dominant Plant Species Including Wetland Indicator Status at All Plot Locations

Scientific Name	Common Name	Indicator Status*
Avena barbata	slender oat	none
Helminthotheca echioides	bristly-ox tongue	FAC
Juncus balticus	Baltic rush	FACW
Malvella leprosa	alkali mallow	FACU
Quercus agrifolia	coast live oak	none
Quercus lobata	valley oak	FACU
Salix lasiolepis	arroyo willow	FACW
Typha domingensis	southern cattail	OBL
Vitis vinifera	wine grape	none

#### **Codes:**

OBL = Obligate Wetland - Occur almost always (estimated probability>99%) under natural conditions in wetlands

FACW = Facultative Wetland – Usually occur in wetlands (estimated probability 67%-99%), but occasionally found in non-wetlands.

FAC = Facultative – Equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland – Usually occur in non-wetlands (estimated probability 67%-99%), but occasionally found in wetlands (estimated probability 1%-33%).

UPL = Obligate Upland - Occur in wetlands in another region, but occur almost always (estimated probability>99%) under natural conditions in non-wetlands in the region specified. If a species does not occur in wetlands in any region, it is not on the <u>National List</u>.

\* None = Plant species not listed are considered UPL for wetland delineation purposes (Lichvar 2016).

#### 3.4 Wildlife

Wildlife species observed during the survey of the site by Envicom in 2016 were species common or relatively common to the region. In general, species observed constitute a sample of the non-special-status wildlife species that can be expected to utilize habitats at the site for cover, foraging, and reproduction. Several species (e.g., reptiles, birds, small mammals) undoubtedly reproduce at the site, and a wide range of larger or mobile species can be expected to utilize the site's resources routinely, such as foraging raptors, and medium to large-sized mammals, such as for example striped skunk, coyote, and mule deer. Bird species observed consisted primarily of year-round and summer residents, and potential migrants. Several bird species likely nest at the site in any given year.

#### 3.5 Jurisdictional Waters/Habitat

The ephemeral drainage would be regulated as a federal and state jurisdictional feature (**Table 2**, **Potential Jurisdictional Feature in Survey Area** and **Figure 8**). The drainage (DR1) appears to be hydrologically connected to the Pacific Ocean, which is navigable water. Therefore, the drainage is subject to both federal and state jurisdiction. Thus, all features observed were recorded per both ACOE and CDFW guidance. Within the survey area, data for five (5) soil test points were collected using ACOE methodology described above to delineate wetlands. One (1) area within the drainage met all three (3) ACOE wetland parameters (hydrophytic vegetation, hydric soils, and hydrology) to be classified as a wetland. Based on the results of the test plots, the remainder of the drainage does not meet wetland criteria and is classified as non-wetland waters, a significant departure from the previous 2005 report.

The drainage is incised in the northern portion of the site and conveys water from upland areas to the south and off-site via a culvert under Canwood Street. Here, the drainage has a discernible bed and OHWM indicators. Upland environs were determined based on the limits of upland indicators including breaks in the bank, drainage pattern, woody debris, and the development of soil. Riparian habitat associated with drainage includes the contiguous tree canopy, which is dependent on the perennial spring and irrigation flow. As the drainage trends to the south, including areas of mechanical discing, the channel flattens out and water is conveyed across the site through a loosely defined channel along the western margins of the property, bounded by fill from the adjacent site and landscape plantings. A box culvert from the adjacent development that drains into the project site had standing water and a well-established hydrophytic plant community. This water source drains into the main channel and provides a supplemental source that supports a wetland depression area just north of the culvert under Canwood Street.



OAKMONT OF AGOURA HILLS - JURISDICTIONAL DELINEATION REPORT

<u>Table 2</u> Potential Jurisdictional Feature in Survey Areas

	Locatio Coordi	`	Size**			
Feature	Latitude	Longitude	ACOE Non- Wetland Waters/RWQCB (Acres/Linear Feet)	ACOE Wetland Waters/RWQCB (Acres/Linear Feet)	CDFW Riparian (Acres/Linear Feet)	
DR1	34.148747	-118.766185	0.09/713	0.004/27	0.41/760	

<sup>\*</sup> North American Datum 1983, California State Plane Zone V. GPS coordinates are given for the upstream point of the feature as accessed during field survey.

<sup>\*\*</sup> Linear feet calculations are based on the centerline of the feature within the extent of the surveyed areas. CDFW Riparian habitat based on aerial and field assessment. ACOE/RWQCB value based on field assessment. Values are approximate due to rounding.

#### 4.0 IMPACTS AND MITIGATION

#### 4.1 Impacts

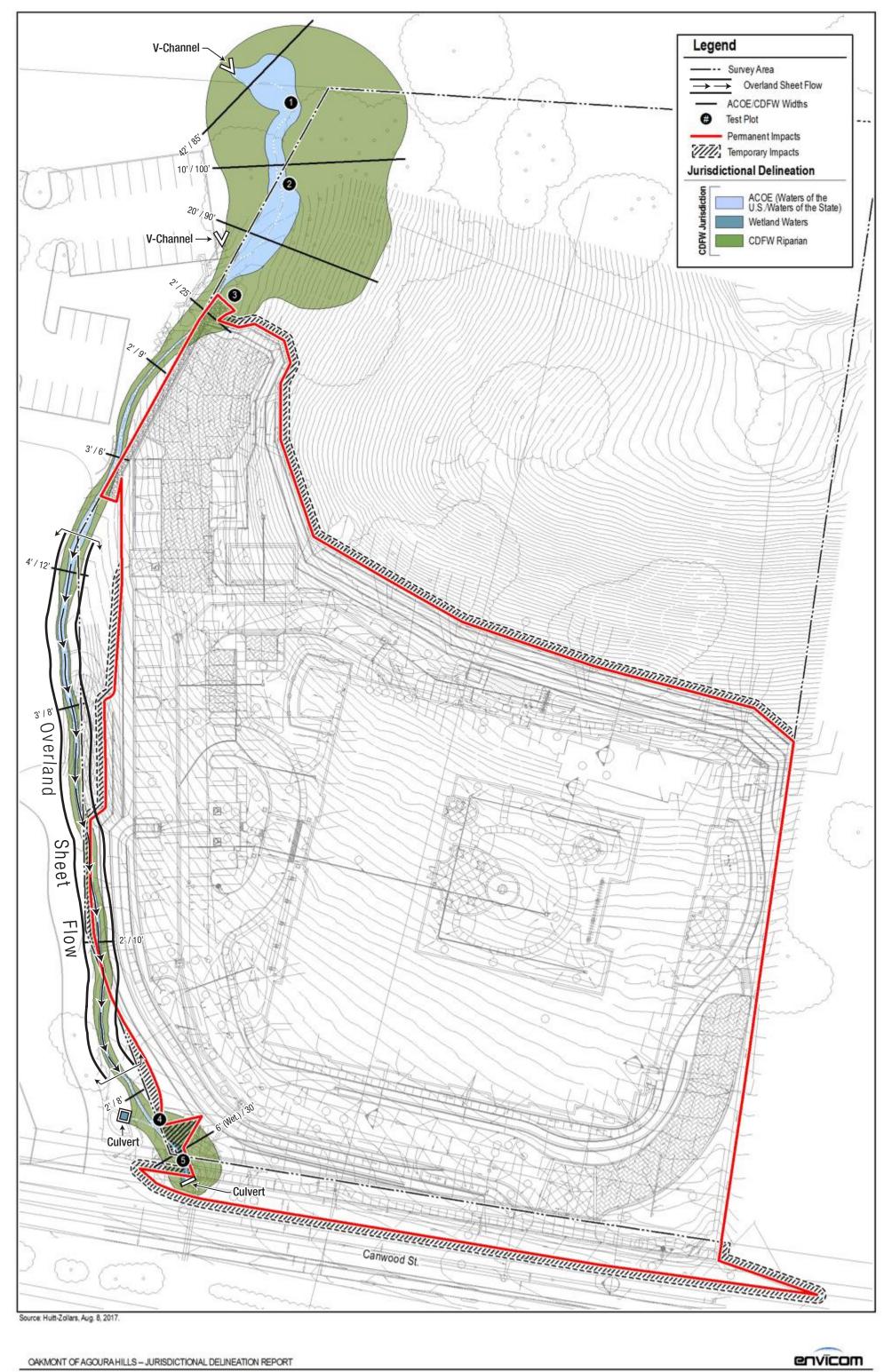
Based on the information provided in the project's Application, we understand the project includes the construction of a senior living facility. A site plan prepared by Huitt-Zollars dated August 8, 2017 is provided as Appendix 1.

As described above, Envicom conducted a jurisdictional delineation within the survey area. One (1) feature was identified within the survey area and delineated in accordance with the ACOE Wetlands Delineation Manual and the Regional Supplement. The project limits of disturbance are based on the limits of disturbance overlaid on potential jurisdictional areas as illustrated in **Figure 9**, **Jurisdictional Delineation Impacts Map**. Temporary impacts associated with the construction process include a five-foot buffer from the edge of the planned retaining walls and hydraulic energy dissipators on the western edge of the development. The jurisdictional acreage within the drainage that would be impacted by the project is provided in **Table 3**.

Table 3
Impacts to ACOE and CDFW Jurisdictional Areas

	Wetland Waters (Acres / Li		Non-wetla Waters (Acres / Li	of U.S.	CD (Acres / Li	- '''
	Temporary	Permanent	Temporary	Permanent	Temporary	Permanent
DR1	0.002/87	0.001/44	0.002/87	0.004/174	0.013/566	0.034/1,481

The proposed project's impacts to potential jurisdictional areas would be subject to the review and approval of the Trustee Resource Agencies. Impacts to jurisdictional areas would be considered a significant impact. Implementation of Mitigation Measure (MM) BIO-1 would reduce potentially significant impacts to a less-than-significant level.



#### 4.2 Recommended Mitigation Measures

The following mitigation measures are recommended to reduce potentially significant impacts to a less than significant level:

BIO -1(a) Agency Consultation: The applicant shall (prior to issuance of grading permits) consult with CDFW, ACOE, and the RWQCB and obtain applicable permits for the proposed impacts to jurisdictional waters. A Clean Water Act Section 404 permit would be required from the ACOE for the discharge of fill to any of the ACOE-jurisdictional wetlands or non- wetland waters of the U.S. onsite. Additionally, a Section 401 water quality certification would be required from the RWQCB. These permits typically require mitigation to reduce impacts to water quality and quantity, vegetation, and wildlife. The project applicant shall demonstrate to the City of Agoura Hills that the requirements of agencies with jurisdiction over waters and riparian habitat onsite can be met prior to obtaining grading permits. This will include, but not be limited to, consultation with those agencies, securing the appropriate permits, waivers or agreements, and arrangements with a local or regional mitigation bank including in lieu fees, as needed.

Although the ACOE and CDFW will require specific mitigation as part of their permitting processes, the following measures provide minimum mitigation requirements for impacts to the important water resources habitats under the City's jurisdiction.

- BIO-1 (b) Replacement Ratio. Federal and State protected waters and riparian habitat shall be replaced at a minimum ratio of 2:1 of habitat, at the same or greater quality, for every 1.0-acre removed. Replacement shall be at an Agoura Hills Planning and Community Development Department approved location or by providing adequate funding for the replacement of suitable equivalent habitat to an organization currently conducting restoration of habitat. The organization and its activities are to be approved by an Agoura Hills Planning and Community Development Department approved biologist prior to issuance of grading permits.
- BIO-1 (c) Habitat Mitigation and Monitoring Program. In the event that onsite mitigation is to be done instead of the use of in-lieu fees or offsite mitigation, the project applicant shall submit a Habitat Mitigation and Monitoring Program (HMMP) for review and approval by an Agoura Hills Planning and Community Development Department staff and, as necessary, a City approved biologist or qualified landscape specialist. The project shall implement the requirements of the final approved Habitat Mitigation and Monitoring Program, which shall mitigate for impacts to CDFW jurisdictional habitat and ACOE "non-wetland" Waters of the United States at a 2:1 ratio for permanent impacts and a 1:1 ratio for temporary impacts, or as otherwise approved by the Trustee Agencies.

The Habitat Mitigation and Monitoring Program shall mitigate for impacts to jurisdictional areas via an acceptable mitigation approach that involves one or a combination of the on-site or off-site restoration or enhancement of degraded in-kind habitats, preservation of in-kind habitats, or by a contribution to an in-lieu fee program approved by the City, ACOE, RWQCB, and the CDFW.

The final Habitat Mitigation and Monitoring Program shall be developed by a qualified biologist, restoration ecologist or resource specialist and submitted to and approved by the

City, ACOE, RWQCB, and CDFW, in compliance with Clean Water Act Sections 401 and 404 and California Fish and Game Code 1602 and supporting regulations, prior to issuance of a grading permit for the project. The Program shall be based on the ACOE Final Mitigation Guidelines and Monitoring Requirements (April 19, 2004) and the ACOE Los Angeles District's Recommended Outline for Draft and Final Compensatory Mitigation and Monitoring Plans. In broad terms, this Program shall at a minimum include:

- Description of the project/impact and mitigation sites;
- Specific objectives;
- Success criteria;
- Plant palette;
- Implementation plan;
- Maintenance activities;
- Monitoring plan; and
- Contingency measures.

Success criteria shall at a minimum be evaluated based on appropriate survival rates and percent cover of planted native species, as well as eradication and control of invasive species within the restoration area.

The target species and native plant palette, as well as the specific methods for evaluating whether the project has been successful at meeting the above-mentioned success criteria shall be determined by the qualified biologist, restoration ecologist, or resource specialist and included in the mitigation program.

The mitigation project shall be implemented over a five-year period and shall incorporate an iterative process of annual monitoring and evaluation of progress and allow for adjustments to the program, as necessary, to achieve desired outcomes and meet success criteria. Annual reports discussing the implementation, monitoring, and management of the mitigation project shall be submitted to the City, ACOE, RWQCB, and the CDFW. Five years after project start, a final report shall be submitted to the City, ACOE, RWQCB, and CDFW, which shall at a minimum discuss the implementation, monitoring and management of the mitigation project over the five-year period, and indicate whether the mitigation project has been successful based on established success criteria. The annual reports and the final report shall include asbuilt plans submitted as an appendix to the report. Restoration will be considered successful after the success criteria have been met for a period of at least 2 years without any maintenance or remediation activities other than invasive species control. The project shall be extended if success criteria have not been met at the end of the five-year period to the satisfaction of the City, ACOE, RWQCB, and the CDFW.

### 5.0 CONCLUSION

Based on the delineation, a total of approximately 0.094 acres (740 linear feet) are considered potential jurisdictional WOUS by the ACOE and WOS by the RWQCB and 0.41 acres (760 linear feet) are potential CDFW jurisdiction. Activities that affect the delineated features within the survey area would potentially be subject to requirements under Section 404 and 401 of the CWA and California Fish and Game Code section 1600 et seq.

#### 6.0 REFERENCES

- Baker, R. J., L. C. Bradley, R. D. Bradley, J. W. Dragoo, M. D. Engstrom, R. S. Hoffman, C. A. Jones, F. Reid, D. W. Rice, and C. Jones. 2003. Revised checklist of North American mammals north of Mexico, 2003. Museum of Texas Tech University Occasional Papers 229:1-23.
- Brady, Roland H. III, Kris Vyverberg. 2013. Methods to Describe and Delineate Episodic Stream Processes on Arid Landscapes for Permitting Utility-Scale Solar Power Plants. California Energy Commission. Publication Number: CEC-500-2014-013.
- California Department of Fish and Game (CDFG). 2010. Vegetation Classification and Mapping Program, List of Vegetation Alliances and Associations. September 2010. http://www.dfg.ca.gov/biogeodata/vegcamp/natural comm list.asp
- Groundwater Information Center. 2016. Interactive Map Application. Available at: https://gis.water.ca.gov/app/gicima/. Accessed on May 10, 2016.
- Envicom Corporation 2005. CDFG/ACOE Jurisdictional Delineation and Biota Report for 29501 Canwood Street.
- Evens, J. and T. Keeler-Wolf. 2006 (January). Vegetation Classification of the Santa Monica Mountains National Recreation Area and Environs in Ventura and Los Angeles Counties, California. California Department of Fish and Game and California Native Plant Society.
- Garrett, K., Dunn, J., and Morse, B. 2006. Birds of the Los Angeles Region. R.W. Morse Company. Olympia, WA.
- Garrett, K. and J. Dunn. 1981. Birds of Southern California; Status and distribution. Los Angeles Audubon Society, Los Angeles, California.
- Google Earth Pro. 2013. Version 7.1.2.2041. Build Date 10/7/2013.
- Jennings, M.R., and M.P. Hayes. 1994. Amphibian and Reptile Species of Special Concern in California. Final Report to the California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova, California.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X
- Microsoft. 2016. Bing Bird's Eye Map. 2010 2014. Variable Scale. Available at: http://www.bing.com/maps/. Accessed on October 17, 2016.
- Munsell Color. 2013. Munsell Soil-Color Charts. Division of X-Rite Incorporated. Grand Rapids, Michigan.
- Natural Resources Conservation Service (NRCS). 2016. Web Soil Survey. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed October 17, 2016.

- Reid, Fiona. A Field Guide to Mammals of North America, 4th ed., Houghton Mifflin Company, New York, New York, 2006.
- Sawyer, J.O., T. Keeler-Wolf, and J. M. Evens, A Manual of California Vegetation, 2nd ed., California Native Plant Society Press, Sacramento, California, 2009.
- Shuford, W. D., and Gardali, T., editors. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento.
- Sibley, D.A., 2003. The Sibley Field Guide to Birds of Western North America. A.A. Knopf, New York.
- Stebbins, Robert C. (Robert Cyril). A Field Guide to Western Reptiles and Amphibians, 3rd ed., Houghton Mifflin Company, New York, New York, 2003.
- U.S. Army Corps of Engineers (ACOE). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. ACOE, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- \_\_\_\_\_\_. 2008a. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- \_\_\_\_\_\_. 2008b. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual. R.W. Lichvar and S.M. McColley. ERDC/CRREL TR-08-12. Hanover, NH: U.S. Army Engineer Research and Development Center.
- \_\_\_\_\_. 2010. Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. July 2010.
- U.S. Climate Data. 2016. Climate for Los Angeles, CA. Available at: http://www.usclimatedata.com/climate/los-angeles/california/united-states/usca1339. Accessed on October 17, 2016.
- U.S. Department of Agriculture (USDA) Soil Conservation Service. 1993. Soil Survey Manual. Washington, D.C.
- U.S. Fish and Wildlife Service (USFWS). 2016. National Wetland Inventory (NWI). http://www.fws.gov/wetlands/Data/Mapper.html. Accessed October 17, 2016, 2016.
- Zeiner, D.C, W.F. Laudenslayer, Jr., K.E. Mayer, and M. White. 1988 (May). California's Wildlife.Vol. I Amphibians and Reptiles. California Statewide Wildlife Habitat Relationships System, California Department of Fish and Game, Sacramento, California.

- Zeiner, D.C, W.F. Laudenslayer, Jr., K.E. Mayer, and M. White. 1990a (April). California's Wildlife. Vol. III Mammals. California Statewide Wildlife Habitat Relationships System, California Department of Fish and Game, Sacramento, California.
- Zeiner, D.C, W.F. Laudenslayer, Jr., K.E. Mayer, and M. White. 1990b (November). California's Wildlife. Vol. II Birds. California Statewide Wildlife Habitat Relationships System, California Department of Fish and Game, Sacramento, California.

## **APPENDIX 1**

Site Plan, Huitt-Zollars, August 8, 2017



## **APPENDIX 2**

## **Wetland Determination Data Forms**

Arith World - Marenton Out

## WETLAND DETERMINATION DATA FORM - Arld West Region

ProjectSite Makement Stores /Consumo	Gill Colinter About	140 14013 Sampiling Date: 10/31/11
Applicant/Owner Obligat Science LIVING		State: CA Sampling Point 772 777
		argo Cas Vijens Coul Cond Count
Landform (hilistope, terrace, s.o.): dipregion.	• • • • • • • • • • • • • • • • • • • •	, oxivex, none): Slape (%; _/- 2_
Subregion (I.RR): LARC	to the second of the second	Long: _ //6. 746 4653
Soil Map Unit Vamo: Urban land Story, landscaped		20 2 net 200 100 100 100 100 100 100 100 100 100
Are dimatic/ hydrologic conditions on the site typical fo		
Are Vegetatlan		(Ifino, explain in Remarks.)
Are Vegetation		*Normal Circ Imstences present? YesNo/
	·	reeded, explain any answers in Remarks )
SUMMARY OF FINDINGS - Attach site mi	abowing sampling point	locations, transects, important features, etc.
Hydrophytia Vegetation Present? Yes 199	No Z	
Fydific Soil Present? Yes	No Vithin a Wette	
Wetland Hydrology Present? Yes	. No 1/2	rus No V
TP2 located in depression over sout	1 1 201 1	Q 41 (2 -)
fort was the said the Box	ed to punder repairs	Nemman Bears defination (2007)
found by Manual at this location [ All	in strongly water and gla	red suits). Severe drought emplitions.
VEGETATION - Use scientific names of pl	ants. No logica a wat	tand
Iras Stratum (Fictisize: 20 )	Absolute Dominant Indicator	Dothinance Test worksheet:
1 Averse grafts	<u> </u>	Number of Duniviant Species /
<u> </u>	20 Y FACU	. That Are CBL, FACW, or FAC: (A)
3. Soft Parolepis	Zo Y FACE	Total Number of Dominant Species Agrees Ad Strate: 5 (a)
4	<i></i>	Species Across Ail Strata: 5 (6)
Provident Charles (Manhors and Charles)	= Total Cover	Forcential Doublean Species That Arc OBL, FACW, or FAC:
Senting/Shrub, Strature (Pictisiza: 10' )	20 Y NL	· · · · · · · · · · · · · · · · · · ·
2	<u></u>	Freyaletica Indax worksheet:
3		
4		OffLaposies
5		FAC species x3=
	= Total Cover	FACU species 80 x4= 80
1. 2 <del></del>		UPL spaces
2.		i Goʻuran Totals: <u>125′</u> (A) <u>5185′</u> (B)
0	—··-—	Prevslence Indox ≃ B/A ≃ 4.34
4		Hydrophytic Vegetation Indicators:
5		Dem nance Test is >50%
6		Prevalence Index la ≤3.0¹
		Morphological Adaptations (Provide supporting
· · · · · · · · · · · · · · · · · · ·	····································	klata in "Roma ika or an alegoliske sheqt)  Froblematic Hydrophytic Verotellon" (Explain)
Woody Vine Stratung (Flot size:	= Total Cover	- Liopicing and Are Asides of Textilati
1. Vitis vinition	<u>5</u>	Ind-pators of hydric sull and wetland hydrology must
2		28 present, unless disturbed or ordinatio.
	5 = Tota: Cover	Hydrephy5c
% Barre Ground in Herb Stratum % Cov	ran of Biotic Crust	Present? Yes No
Remarks:	777	
ground cornered 100% with land letter. indicated larger personlage at PACO appears.	The arts is under extensi	dought conditions. Previous de hopethon
indicated larger personly of FACEN appears	s accurring. The Hipte phate	os troken. Ale hydric soils ar hydrology
· •	_	- 7 34
	<b></b>	
US Army Corps of Engineers		Air Worl - Verrice 9.1

Doppin Collect (mods) 3 Collect (mods) 4 Land (mode) 5 Collect (mods) 6 Co	rofilo Descript	iou: {pescups.	rona:e qebru	needed to docur		stor or conne	n the absence	e or increators.y
Page: C=Concentration	Эе <b>b</b> gı — —				<u>x Features</u>	mal		Facuatie
Page   Concentration   Page		•		Calar Imageti	. <u>'75   14</u>	bel Troc.	extite	
Drue: C=Concentration.   Decision. RM=Reciscal Matrix: CS=Covered or Costed Sard Grains.   Location: FL=Por Librig, M=Matrix. Sprins Sci Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Hydric Soils*: Indicators for Problematic Hydric Hydr	2-2-0 V	EDEF MAN						
Drue: C=Concentration.   Decision. RM=Reciscal Matrix: CS=Covered or Costed Sard Grains.   Location: FL=Por Librig, M=Matrix. Sprins Sci Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Hydric Soils*: Indicators for Problematic Hydric Hydr	0-6 10	42 3/2	<i>\$5</i>	544 3/4	_ 5°	C P2 26	y 10 mm	mots
Type: C=Concentration:   Deposition: RM=Reduced Mainty: CS=Coverad or Costed Sand Grains:   *Location: FL=Pore Living: N=Mainty: North Sci Indicators: (Applicable to still LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils:   Indicators for Problematic Hydric Hydric Soils:   Indicators for Problematic Hydric						in	alor him	
ydris Soft Indicators: (Applicable to sit LRRs, miless otherwise noted.) Histopsi (A1)   Gandy Racox (S5)   1 om Muck (A6) (LRR G)   Histopsi (A1)   Surppe Matrix (36)   2 om Muck (A10) (LRR G)   Black Histo (A3)   Loarry (Mucky Mineral (F1)   Reduced Verific (F18)   Hydrogon Suilide (A4)   Loarry (Loyed Matrix (F2)   Red Parent Material (TF2)   Citreffied Layers (A5) (LRR G)   Deplated Austrix (F3)   Citre (Extrain in Ramarks)   1 om Muck (A8) (LRR D)   Red North Material (TF2)   Citreffied Layers (A5) (LRR D)   Red North Surface (F3)   Deplated Balow Bark Surface (A11)   Redox Derk Surface (F3)   Deplated Balow Dark Surface (A12)   Redox Depressions (F8)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic catifodity Layer (Iff present):    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present.    Popul (Indicators of previous problematic (S4)   Popul Pools (F9)   Popul Popul Pools (F9)   Popul Popul Popul Pools (F9)   Popul	<u> </u>		· <del>/</del> -			<del>/ `</del>	20127 7-24	
ydris Soft Indicators: (Applicable to sit LRRs, miless otherwise noted.) Histopsi (A1)   Gandy Racox (S5)   1 om Muck (A6) (LRR G)   Histopsi (A1)   Surppe Matrix (36)   2 om Muck (A10) (LRR G)   Black Histo (A3)   Loarry (Mucky Mineral (F1)   Reduced Verific (F18)   Hydrogon Suilide (A4)   Loarry (Loyed Matrix (F2)   Red Parent Material (TF2)   Citreffied Layers (A5) (LRR G)   Deplated Austrix (F3)   Citre (Extrain in Ramarks)   1 om Muck (A8) (LRR D)   Red North Material (TF2)   Citreffied Layers (A5) (LRR D)   Red North Surface (F3)   Deplated Balow Bark Surface (A11)   Redox Derk Surface (F3)   Deplated Balow Dark Surface (A12)   Redox Depressions (F8)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic catifodity Layer (Iff present):    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present.    Popul (Indicators of previous problematic (S4)   Popul Pools (F9)   Popul Popul Pools (F9)   Popul Popul Popul Pools (F9)   Popul		·····	. — -		- — —			
ydris Soft Indicators: (Applicable to all LRRs, miless otherwise noted.) Historal (A1)								
ydris Soft Indicators: (Applicable to sit LRRs, miless otherwise noted.) Histopsi (A1)   Gandy Racox (S5)   1 om Muck (A6) (LRR G)   Histopsi (A1)   Surppe Matrix (36)   2 om Muck (A10) (LRR G)   Black Histo (A3)   Loarry (Mucky Mineral (F1)   Reduced Verific (F18)   Hydrogon Suilide (A4)   Loarry (Loyed Matrix (F2)   Red Parent Material (TF2)   Citreffied Layers (A5) (LRR G)   Deplated Austrix (F3)   Citre (Extrain in Ramarks)   1 om Muck (A8) (LRR D)   Red North Material (TF2)   Citreffied Layers (A5) (LRR D)   Red North Surface (F3)   Deplated Balow Bark Surface (A11)   Redox Derk Surface (F3)   Deplated Balow Dark Surface (A12)   Redox Depressions (F8)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic catifodity Layer (Iff present):    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present, unless distributed or problematic.    Somety Glayed Matrix (S4)   Vernal Pools (F9)   Indicators of hydrobytic vegetation and water hydrology must be present.    Popul (Indicators of previous problematic (S4)   Popul Pools (F9)   Popul Popul Pools (F9)   Popul Popul Popul Pools (F9)   Popul								
ydris Soft Indicators: (Applicable to all LRRs, miless otherwise noted.) Historal (A1)	,							· - ·
ydris Soft Indicators: (Applicable to all LRRs, unless otherwise noted.)  Historal (A1)						·		·
ydris Soft Indicators: (Applicable to all LRRs, unless otherwise noted.)  Historal (A1)		. ,		<b>_</b>				
Histores (A1) Sandy Racox (S5) 1 on: Muck (A8) (LRR G) Histores (A2) Strippoc Matrix (S5) 2 cm Muck (A10) (LRR B) Slack Histor (A2) Strippoc Matrix (S5) 2 cm Muck (A10) (LRR B) Slack Histor (A3) 1 coarry Mucky Mineral (F1) 1 Red Jose Vortic (-18) Histores (A5) (LRR C) 2 Deplated Matrix (F2) 1 Red Parent Material (TF2) Stretified Layers (A5) (LRR C) 2 Deplated Matrix (F3) 2 Cther (Ext Sin in Remarks)  Tend Muck (A9) (LRR D) Red On Stark Surface (F3) Deplated Balow Dark Surface (A1: Deplated Dark Surface (F3) Deplated Balow Dark Surface (A1: Deplated Dark Surface (F3) Sendy Mucky Mineral (S1) Yerial Pools (F9) Well Properties of hydrology must be present, indeed of hydrology must be present, indeed displaced on the hydrology must be present, indeed displaced on the hydrology must be present, indeed of hydrology must be present.  Type: Depth (nother): Hydric Soil Present? Yes No Yerial Pools (F9) No. Yerial Pools (F9)  Hydric Soil Present? Yes No Yerial Pools (F9) No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9) No. Yerial Pools (F9) No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9) No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9) No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9)  FACH No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9)  FACH No. Yerial Pools (F9)  Hydric Soil Present? Yes No. Yerial Pools (F9)  Fach Hydric Soil Present? Yes No. Yerial Pools (F)  Fach No. Yerial Pools (F9)  Hydric Recorded Data Interem gauge, Facilitating well, and photons, previous Inspections, if available:	Type; C≕Ca <b>nc</b> e	in <b>tr</b> ațion, SaDep	€e <b>tio</b> n, RM=R	Reduced Matrix, Ca	S–Covered or (	Costed Sand 9	irains, <sup>*</sup> Lo	
Histor Epipedon (A2) Sinter Nation (S5) Sinter Nation (A3) Sinter Sinter (B3) Sinter Nation (A3) Sinter Nati	ydric So!l Indi	cators: (Applic	able to sয় Li	RRs, umless othe	rwise noted.)		Indicator	s for Problematic Hydric Soils <sup>a</sup> :
Elack Histor (A3)   Loarry Mucky Mineral (F1)   Reduced Vertic (F18)     Hydrogen Suffice (A4)   Loarry Cleyed Medits (F2)   Red Parent Material (F2)     Strettfied Layers (A5) (LRR C)   Depited Medits (F2)   Other (Exp din in Remarks)     Depted Medits (F3)   Citier (Exp din in Remarks)     Depted Below Dark Surface (A1)   Redox Depteseibns (F8)     Thick Dark Surface (A12)   Redox Depteseibns (F8)     Sandy Mucky Mineral (S1)   Vernal Pools (F9)   Verder Indicators of hydrobytic vegetation and veder Infriedrogy must be present, someticitive Layer (If present):   Sandy Glayed Medits (S4)   Vernal Pools (F9)   Vernal Pools (F9)     Someticitive Layer (If present):   Typer	Histosol (A1)	)		Sandy Red	ox (55)		1 cm:	Muck (A8) (LRR C)
Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  Stratified Layers (A5) (LRR C)  Depleted Maint (F3)  Depleted Ballow Dark Surface (A11)  Depleted Ballow Dark Surface (A12)  Sandy Mucky Mincral (B1)  Sondy Glayed Matrix (S4)  Sondy Mucky Mincral (B1)  Sondy Mucky Mincral (B1)  Sondy Mucky Mincral (B1)  Sondy Mucky Mincral (B1)  Sondy Glayed Matrix (S4)  Sondy Mucky Mincral (B1)  Sondy Glayed Matrix (S4)  Sondy Mucky Mincral (B1)  Sondy Glayed Matrix (S4)  Sondy Glayed Matrix	Histic Egiper	Jon (A2)		Stripped <b>#</b> f	atrix (විව්)		2 cm	Muck (A10) (LRR 8)
Stratified Leyers (A5) (LRR C)	_ Black Histic	(A3)		Сратку Мис	ky Mineral (F1	)	_	
Tem Muck (A9) (LRR D) Radox Dark Surface (F2) Deplated Balow Dark Surface (A12) Deplated Dark Surface (A12) Sandy Mucky Minoral (S1) Sandy Minoral (S2) Sandy Minoral (S1) Sandy Minoral (S2) Sandy Minoral (S3) Sandy	_ Hydragen St	ulfide (A4)		Coamy Cley	yed Matrix (F2)	)		
Depleted Balow Dark Surface (A12)	_ Stratified Lay	yers (A5) (LRR (	0)				Other	r (Explain in Remarks)
Thick Dark Surface (A12)	_ 1 am Muck (	A9) (LRR D)						
Sandy Mucky Mincral (S1) Vernal Pools (F9) wedard hydrology must be present, sondy Gleyed Matrix (S4) unless dietrified or problematic.  Strictive Layer (If present):  Type:  Depth (inches):  Popth (inches):  Buildone of previous softwations: but the through reduct in pare larner but no officer. Indication gives and the previous for the through reduct in pare larner but no officer. Indication gives and the previous for the previous financial for the previous	_ Depleted Bs	low Dark Surfac	o <b>(</b> A11)	•		7)		
Sandy Glayed Matrix (S4)  catrictive Layer (if present):  Type:  Depth (nohes):  Enders of previous sosteration: but the trough reduct in force lumps but no officer. Indication of previous sosteration: but the trough reduct in force lumps but no officer. Indication of previous sosteration: but the trough reduct in force lumps but no officer. Indication of previous, softward of glayed numbrix. Destit Sci. I does not must the numbrun reg is for statistical figures.  (PROLOGY  lettand Expercisory Indicators:  Cinery Indicators (minimum of one required: dreak all that apply)  Surface Water (A1)  Surface Water (A2)  Surface Water (A2)  Surface Water (A2)  Surface (A2)  Surface (A2)  Surface (A2)  Surface (A2)  Surface (A2)  Drift Deposits (B2) (Nondivertice)  Drift Deposits (B2) (Nondivertice)  Drift Deposits (B2) (Nondivertice)  Presence of Reduced from (C4)  Surface Soft Creates (B3)  Federal Irren Reduction in Tilled Soils (C6)  Surface (C7)  Shallow Aquitant (D3)  Water Table (Present?  Yes No Depth (Inches)  Jord Deposits (Face (Inches))  Let Observations:  Later Table Present?  Yes No Depth (Inches)  Jord Depth (Inches)  Later Table Present?  Yes No Depth (Inches)  Jord Depth (Inches)  Later Table Present?  Yes No Depth (Inches)  Jord Depth (Inches)  Later Table Present?  Yes No Depth (Inches)  Jord Depth (Inches)  Later Table Present?  Yes No Depth (Inches)  Jord Depth (Inches)  Later Table Present?  Yes No Depth (Inches)  Jord Dept	_ Thick Dark 8	Surface (A12)			•	•		
Set of the content of	_ Sandy Muck	y Minerai (81)		Vernal Poo	ls (F9)		wegato	ł hydrology must be present,
Type:	_ Sandy Glaye	ad Matrix (94)		·			uniess	districted or problematic.
Type:	·— · — · · · · · · · · · · · · · · · ·							
Depth (nohes):  Endance of previous softentian but the though reduct in fore lamps but no officer industry asserted the through soften in officer industry asserted the through soften in officer industry. Secondary indicators:  For statistic larger a secondary indicators:  Finer Indicators (minimum of one required; check ell that apply):  Sunsace Water (A1)  Sunsace Water (A1)  Sulface Water Table (A2)  Sulface Water Table (A2)  Sulface Water Table (A2)  Sulface Water Marks (B1) (Nonriverine)  Water Marks (B1) (Nonriverine)  Aquatic Invertebrates (B13)  Drift Deposits (B2) (Nonriverine)  Sulface Sol Cracks (B3) (Noirifverine)  Sunface Sol Cracks (B3) (Noirifverine)  Fresence of Reduced into (C4)  Sulface Sol Cracks (B3)  Invariation Visible on Actual Invagery (B7)  Thin Muse Surface (C7)  Water Stained Leaves (B9)  Cher (Explain in Remarks)  FAG-Neutral Table (D3)  Report (nohaes):  Inface Water Present?  Yes  No  Depth (inchaes):  Wetland Hydrology Present? Yes  No  Depth (inchaes):  Wetland Hydrology Present? Yes  No  Depth (inchaes):  Wetland Hydrology Present? Yes  No  Depth (inchaes):  Depth (inchaes):  Describe Recorded Data Istream gauge, in onlocing woll, periol photos, previous Inspections, if available:	_						L	
Endeand of previous sockerations but no through reduct in pare larger but no officer inclusion of seemed. Howardly, sockeral of glegal market. Deall's illustrated by glegal market. Dea							•	
Secondary Indicators:  Intervincia Experiment of one required: check ell that apply)  Surface Wester (A1)  Subset Water (A1)  Subset Water (A2)  Sattraction (A3)  Water Marks (B1) (Riverine)  Subset (B2) (Nondiverine)  Subset (B3)  Water Marks (B1) (Nondiverine)  Subset (B3)  Water Marks (B3) (Nondiverine)  Subset (B3) (Nondiverine)  Presence of Raduced from (C4)  Subset (B3) (Nondiverine)  Subset (B3) (Nondiverine)  Presence of Raduced from (C4)  Subset (B3) (Nondiverine)  Subset (B3) (Nondiverine)  Subset (B3) (Nondiverine)  Subset (B3) (Nondiverine)  Presence of Raduced from (C4)  Subset (B3) (Nondiverine)  Subset (B4) (Nondiverine	Depth (nohee		nous sort	evertion: but gjeged aurfn	ne through	h redut in	1 -	
Secondary Indicators (minimum of one required: check ell that apply)  Surface Water (A1)  Salt Crust (B12)  Saturation (A3)  Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nontiverine)  Sudiment Deposits (B2) (Riverine)  Sudiment Deposits (B2) (Nontiverine)  Presence of Reduced from (C4)  Surface Soft Cracks (B6)  Incondation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Other (Explain in Remarks)  Seturation Present?  Yes  No  Depth (inches):  Surface Vater Hydrology Present?  Yes  No  Depth (inches):  Surface Other (Explain Hydrology Present? Yes  No  Depth (inches):  Surface Other (Explain Inspections) If available:	Depth (achee emarks: Eind observed: A	conce of pres Conoraly, so	nous sort	zurtion: but Iglesed nurtin	no trough	h redut in Soil does	1 -	
Secondary Indicators (minimum of one required: check all that apply)  Surface Water (A1)  Sulface Water (A2)  Salt Crust (B12)  Saturation (A3)  Mater Table (A2)  Saturation (A3)  Water Marks (B1) (Nontiverine)  Sudfacet (B1) (Nontiverine)  Sudfacet (B2) (Nontiverine)  Presence of Reduced from (C4)  Suffacet (B3)  Induction Visible on Acrial Imagery (B7)  Water-Stalhed Leaves (B9)  Citier (Explain in Remarks)  Saturation Present?  Yes  No  Death (inches):  Suttant (Nother)  Water Table (B2) (Nontiverine)  Suffacet (B2) (Nontiverine)  Suffacet (B2) (Nontiverine)  Suffacet (B3)  Citier (Explain in Remarks)  Suffacet (B3)  Suffacet (B4)  Suf	Depth (nother emarks: Evolutions observed: A For statistic	conce of pre- leworaly, en el lagenca	now sort	ention: but Sileyed number	no trough	h redut in	1 -	
Sunface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Riverine)  Saturation (A3)  Water Marks (B1) (Nonciverine)  Water Marks (B1) (Nonciverine)  Water Marks (B1) (Nonciverine)  Sudfacer Sulfide Odor (C1)  Drift Deposits (B3) (Nonciverine)  Dry-Season Water Table (C2)  Dry-Season Water Table (C3)  Dry-Season Water Table (C3)  Dry-Season Water Table (C3)  Dry-Season Water Table (C3)  Fresence of Reduced from (C4)  Craytish Burrows (C8)  Saturation Visible on Aerial Imagery (C3)  Interpretable (C6)  Interpretable (C6)  Shallow Aquitari (D3)  FAG-Neutral Table (D5)  Water-Stalhed Leaves (B9)  Other (Explain in Remarks)  FAG-Neutral Table (D5)  FAG-Neutral Table (D5)  Present? Yes No Depth (Inches):  Depth (Inches)	Depth (nones emarks: Eind observed A for statistic 'DROLOGY	consty, and bygones		ention but gleged number	no Horas	h redut in	1 -	
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (313) Drift Deposits (B2) (Rivertine) Sudiment Deposits (B2) (Rivertine) Water Marks (B1) (Nontrivertine) Hydroger, Sulfide Odor (C1) Drainage Patterns (B30) Sudiment Deposits (B2) (Nontrivertine) Sudiment Deposits (B2) (Nontrivertine) Sudiment Deposits (B3) (Nontrivertine)  Presence of Roduced Trot. (C4) Surface Soil Cracks (B6) Interdef Cracks (B6) Interdef Cracks (B6) Sufface (C7) Water-Stabled Leaves (B9)  Other (Explain in Romants)  FAG-Neutral (D3) FAG-Neutral	Depth (notices emarks: Eind observed A for statistical PROLOGY retained Eyero).	conce of presidents of bigones	· · ·			h redut in	pore large net me	es but no other indicators of the principum regis
Saturation (A3)	Depth (nohes emarks: Eind of send Photosephole Photosephole Photosephole etiand Eyerole inary Indicator	conce of presidence of bispens,  ogy indicators:  s (minimum of o	· · ·	check ell thet appl		h redut in	pore luminus met me	y but no other indicators of the number of the providence regis
Water Marks (B1) (Nonriverine) Hydroger, Sulfide Odor (C1) Drainage Patterns (B10) Sudiment Deposits (B2) (Nonriverine) Cxidized Rhizospheres along Ulving Roots (C3) Dry-Season Water Tobia (C2) Drif. Deposits (B3) (Noririvarine) Presence of Reduced for, (C4) Craylish Burrows (C8) Surface Sof Cracks (B6) Repent Iron Reduction in Tilled Softs (C6) Saturation Visible on Aerial Imagery (C) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Adulteri (D3) Water-Stathed Leaves (B9) Other (Explain in Romarks) FAC-Neutral Tost (D5)  eld Observations: Urface Water Present? Yes No Depth (Inches): Urface Water Present? Yes No Depth (Inches): Urface Water Present? Yes No Depth (Inches): Urface Capillary fringe) Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Inspections), If available:	Depth (nohes emarks: Eind observed the Shelike PROLOGY etiand Hydrological Siniace Water Maintenant Process of the Process of	conce of presidents of the content o	· · ·	check ell that appl	(v) (811)	h redut in	pore love not me	ys book no other Indicatory of the Markeyman regis  ordary Indicators (2 or more required)  Water Marks (81) (Riverine)
Sudiment Deposits (82) (Nontiver)ne)	Depth (nohese emarks:  Einde Steemed Arthur Steemed Arthur Steemed Arthur Control Cont	constant present of a series (minimum of a series (A1)	· · ·	check ell that appl Saft Crust Bjotjo Cru	(y) .(311) at (812)		pore love not me	or book no other Indicators  of the Markeyman regis  ordary Indicators (2 or more required)  Water Marks (B1) (Rivering)  Sadkment Deposits (B2) (Rivering)
Drift Deposits (BS) (Norinfvorine)	Depth (nohese senarks: Eind observed file of the stander of the senare o	conce of presidence of the following indicators:  s (mining in of a car (A1)  Table (A2)	one (sav <u>irsé:</u>	<u>check ell that appl</u> Saft Oruet Biotic Cru Aquatic In	(8) (811) at (812) vertębrajtes (8)	13)	pore love not me	or book no officer Indicators  of the Markeyman regis  ordary Indicators (2 or more required)  Water Marks (81) (Riverine)  Sadiment Deposits (82) (Riverine)
Surface Soil Cracks (B6) Repent fron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (Continued Soils (C6) Shallow Adultant (D3) Shallow (D5) Shallow Adultant (D3) Shallow (D5) Shallow Adultant (D3) Shallow Adultant (D3) Shallow (D5) Shallow	Depth (nohese emarks:  Evaluation of Seemed for Styling from Proceedings of Seemed for S	conce of presidence of the following indicators:  (mining in of a concert (A1)  Table (A2)  A3)  (B1) (Nonsiver	ine (egu <u>ired:</u>	<u>check ell thet appl</u> Saft Orue: Bjotjo Cru Aquatic In Hydroger.	iv) . (311) st (812) vertebrates (81 Sulfide Odor (1	13) C1)	pore love not me	or both no officer Indicators of the Protection PCG's  ordary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Orti Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Intendstion Visible on Acrial Imagery (87) Thin Muck Surface (C7) Shaflow Aquitard (D3)  Water-Stained Leaves (B9) Other (Explain in Romarks) FAC-Neutral Test (D5)  eld Observations:  urface Water Present? Yes No Depth (inches):  atter Table Pres	Depth (nohese senarks:  Senarks:  Senarks:  Senarks:  Senarks:  Senarks:  Surface Water  Surface Water  Saturation ()  Water Marks  Sodiment De	conce of presidence of the following of	ine (szu <u>irsé:</u> ine) sriverjne)	check ell that appl Saft Cruet Biotic Cru Aquatic In Hydroger Cxidized F	iv) (811) st (812) vertşöre,tes (8 Sulfide Odor (1 Rhizospheres 8	13) C1) along Uvin <b>g</b> Ro	pore loven  not me  Sec	or both no officer Indicators of the numerous regis ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadtment Deposits (82) (Riverine) Orifl Deposits (82) (Riverine) Orignage Patterns (810) Ory-Season Water Table (02)
Water-Stalhed Leaves (B9) Other (Explain in Romarks) FAC-Neutra) Test (D5)	Depth (notice emarks:  Evolution of served. It for startification of the served. It for served emarks are served. It for served emarks are served. It for se	ogy indicators: (motaly, set ogy indicators: (minimum of o er (A1) (A2) (A3) (B1) (Nontriver eposits (B2) (Notrives (B3) (Notrives	ine (szu <u>irsé:</u> ine) sriverjne)	check ell that appl Saft Crust Bjotic Crust Aquafic In Hydroger Oxidized f	iy) (811) st (812) vertebrates (8 Sulfide Odor (1 Rhizosphares s of Roduced ind	13) C1) along Ul√ag Ro at (C4)	pore loven  not me  Sec	or both no officer Indicators of the Protection regis ordary Indicators (2 or more required) Water Marks (B1) (Riverine) Sadkment Deposits (B2) (Riverine) Orifl Deposits (B2) (Riverine) Orignage Patterns (B30) Ory-Bosson Water Table (C2) Oraylish Burrows (C8)
leld Observations:  urface Water Present? Yes No Depth (inches):  dater Table Present? Yes No Depth (inches):  acuration Present? Yes No Depth (inches):  cutation Present? Yes No Depth (inches):  netroos captillary fringe)  necribe Recorded Data (stream gauge, profibring well, periol photos, previous inspections), if available:	Depth (notice emarks:  Diseased for specific	ogy indicators: (motaly, set of set (minimum of o er (A1) Table (A2) A3) (B1) (Nontriver species (B2) (Notriver s (B3) (Notriver c (B3) (Notriver)	no (sgu <u>ljed:</u> ine) splyerjne) rine)	check ell that appl Saft Cruet Bjotic Cruet Aquafic In Hydrogen Oxidized F Presence Rapent Inc	ly) (811) st (812) vertebrates (6 Sulfide Odor ( Rhizospheres a of Roduced fro th Reduction to	13) C1) along Ul√ag Ro at (C4)	sections (C3)	or both no officer Indicators of the Protection P2g's  ordary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sadkment Deposits (B2) (Riverine)  Orifl Deposits (B2) (Riverine)  Orange Patterns (B10)  Oraylish Burrows (C8)  Safuration Visible on Aerial Imagary (C
urface Water Prosent?  Yes No Depth (inches):  aturation Present?  Yes No	Depth (nohesements:  Proceed to Seement to S	ogy indicators: (more y  ogy indicators: (minimum of o  or (A1) (Table (A2)  A3) (B1) (Nonriver  special (B2) (Notriver  os (B3) (Notriver  Cracks (B6) (isible on Actal I	no (sgu <u>ljed:</u> ine) splyerjne) rine)	check ell that appl Saft Cruet Bjotic Cruet Aquafic In Hydrogen Oxidized Repent Inc Thin Muce	iv) (311) st (812) vertebrates (6) Sulfide Odor ( Rhizospheres a of Roduced ind in Reduction in s Surface (07)	13) C1) along Ulving Ro m. (C4) i Tilled Solls (C	sec (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadiment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Drainage Patterns (830) Orayiish Burrows (08) Saturation Visible on Aerial Imagery (08) Shalow Aquitard (09)
later Table Present? Yes No. Depth (inches): Wetland Hydrology Present? Yes No. Depth (inches): Wetland Hydrology Present? Yes No. Depth (inches): Wetland Hydrology Present? Yes No. Depth (inches): No. Dept	Depth (nohesements:  Proceed to Seement to S	ogy indicators: (more y  ogy indicators: (minimum of o  or (A1) (Table (A2)  A3) (B1) (Nonriver  special (B2) (Notriver  os (B3) (Notriver  Cracks (B6) (isible on Actal I	no (sgu <u>ljed:</u> ine) splyerjne) rine)	check ell that appl Saft Cruet Bjotic Cruet Aquafic In Hydrogen Oxidized Repent Inc Thin Muce	iv) (311) st (812) vertebrates (6) Sulfide Odor ( Rhizospheres a of Roduced ind in Reduction in s Surface (07)	13) C1) along Ulving Ro m. (C4) i Tilled Solls (C	sec (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadiment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Drainage Patterns (830) Orayiish Burrows (08) Saturation Visible on Aerial Imagery (08) Shalow Aquitard (09)
aturation Present? Yes <u>No /</u> Death (inches): Wetland Hydrology Present? Yes <u>No /</u> notices captillary fringe)  northe Recorded Data (stream gauge, shortforing well, periol photos, previous inspections), if available:	Depth (nohes emarks:  Exact Observed R  For Shelike  (DROLOGY)  ettand Hydrol  friery Indicator  Surface Water  High Water  Saturation Water  Surface Soll  Inustation V  Water Stallor  Water Stallor	ogy Indicators: (B1) (Nonriver (B3) (Nonriver) (B3) (Nonriver (B3) (Nonriver) (B3) (Nonriver (B3	no (sgu <u>ljed:</u> ine) splyerjne) rine)	check ell that appl Saft Cruet Bjotic Cruet Aquafic In Hydrogen Oxidized Repent Inc Thin Muce	iv) (311) st (812) vertebrates (6) Sulfide Odor ( Rhizospheres a of Roduced ind in Reduction in s Surface (07)	13) C1) along Ulving Ro m. (C4) i Tilled Solls (C	sec (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadiment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Drainage Patterns (830) Orayiish Burrows (08) Saturation Visible on Aerial Imagery (08) Shalow Aquitard (09)
aturation PresexXV Yes <u>No V</u> Death (inches): Wetland Hydrology Present? Yes <u>No V</u> notypos captillary fringe) oportbe Recorded Data (stream gauge, profibring well, periol photos, previous inspections), if available:	Depth (nohee emarks:  Evaluation of Second file  Proceed file  Proceed file  Proced file  Proced file  Surface Water  Saturation of  Water Marks  Surface Soil  Inundation of  Water-Station of	ogy indicators: (more), ogy indicators: (minim_m of ofer (A1) (able (A2) (A3) (B1) (Nonriver (B3) (Nonriver (B3	ine (sgui <u>rsé:</u> ine) ariverine) rine) (magery (87)	check ell that appl  Saft Crue:  Bjotic Cru  Aquafic In  Hydroger:  Cxidized F  Presence  Repent fro  Thin Muce  Other (Ex	iv) (311) st (812) vertebrates (81 Sulfide Odor ( Rhizospheres a of Roduced fro in Reduction in c Surface (C7) plate in Romad	f3) C1) along Ulving Ro or, (C4) i Tilled Solls (C	sec (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadiment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Drainage Patterns (830) Orayiish Burrows (08) Saturation Visible on Aerial Imagery (08) Shalow Aquitard (09)
netrices captillary fringe) necribe Recorded Data (stream gauge, pronitoring well, periol photos, previous inspections), if available:	Depth (notices amarks:    End     Second   File     Continued   File     Continued	ogy indicators: (more), ogy indicators: (minim_m of ofer (A1) (able (A2) (A3) (B1) (Nonriver (B3) (Nonriver (B3	ine (sgui <u>rsé:</u> ine) ariverine) rine) (magery (87)	check ell that appl  Saft Crue:  Bjotic Cru  Aquafic In  Hydroger:  Cxidized F  Presence  Repent fro  Thin Muce  Other (Ex	iv) (311) st (812) vertebrates (81 Sulfide Odor ( Rhizospheres a of Roduced fro in Reduction in c Surface (C7) plate in Romad	13) C1) along Ulving Ro π (C4) n Tilled Solls (C	pare love me second of me	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Dry-Senson Water Table (32) Craylish Burrows (08) Saturation Visible on Aerial Imagery (C. Shalow Aquitard (D9) FAG-Neutra) Tosi (D9)
oscriba Recorded Data (stream gauge, pronitoring well, periol photos, previous inspections), if available:	Depth (nother amarks:    Each   Seemed   fill   For Shifther   DROLOGY   lettend Hydrol   Enery Indicator   Surface West   High Water     Saturation Water Marks   Sudiment Deposit   Surface Soil   Inusdation V   Water Status   Water Status   Let Observation   Let	ogy Indicators: (mining in of orange) (B1) (Nonciver openis (B2) (Noticiver openis (B2) (Noticiver openis (B3) (No	ine) iney iney iney imagery (B7) fesNo	check ell that appl Saft Crue: Biotic Cru Aquasic In Hydroger: Chidized F Presence Recent fro Thin Muce Other (Ex	(v) (311) st (812) vertebrates (8 Sulfide Odor ( Raizospheres e of Raduced fro in Reduction in c Surface (C7) plain in Roman choo):	13) C1) along Ulving Ro π (C4) n Tilled Solls (C	pare love me second of me	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Dry-Senson Water Table (32) Craylish Burrows (08) Saturation Visible on Aerial Imagery (C. Shalow Aquitard (D9) FAG-Neutra) Tosi (D9)
concines. Low depressent area that called autor but appears not to retain water as promonely	Depth (nother amarks:  Diseased file of served file for startion Surface Water High Water Surface Soil Inustation V Water-Stathor Verter Water Peresentation Presentation Pres	ogy indicators: (minim_m of of the minim_m of the minimal	ine (sguijed: ine) artvertne) rine) (magery (87) (es No (es No	check ell that appl  Saft Crust Bjotic Cru Aquafic In Hydroger. Cxidized F Presence Fapent for Thin Muck Other (Ex	iv)  (311) st (812) vertebrates (81 Sulfide Odor ( Rhizzspheres a of Reduction in a Surface (C7) plain in Roman choo): ches):	f(3) C1) along Ulving Ro π. (C4) i Tilled Solls (C	Second (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Dry-Senson Water Table (32) Craylish Burrows (08) Saturation Visible on Aerial Imagery (C. Shalow Aquitard (D9) FAG-Neutra) Tosi (D9)
concides. Low depresent area that called water but appears not to retain water as promonely	Depth (nohese amarks:  Discount of Second of American Present of Present of American Present of Pre	ogy indicators: (minim_m of of the minim_m of the minimal	ine (sguijed: ine) artvertne) rine) (magery (87) (es No (es No	check ell that appl  Saft Crust Bjotic Cru Aquafic In Hydroger. Cxidized F Presence Fapent for Thin Muck Other (Ex	iv)  (311) st (812) vertebrates (81 Sulfide Odor ( Rhizzspheres a of Reduction in a Surface (C7) plain in Roman choo): ches):	f(3) C1) along Ulving Ro π. (C4) i Tilled Solls (C	Second (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Dry-Senson Water Table (32) Craylish Burrows (08) Saturation Visible on Aerial Imagery (C. Shalow Aquitard (D9) FAG-Neutra) Tosi (D9)
Low depresent area that what antos but appears not to retain water as priviously	Depth (nother amarks:  Disease of the second	ogy indicators: (minim_m of of the minim_m of the minimal	ine (sguijed: ine) artvertne) rine) (magery (87) (es No (es No	check ell that appl  Saft Crust Bjotic Cru Aquafic In Hydroger. Cxidized F Presence Fapent for Thin Muck Other (Ex	iv)  (311) st (812) vertebrates (81 Sulfide Odor ( Rhizzspheres a of Reduction in a Surface (C7) plain in Roman choo): ches):	f(3) C1) along Ulving Ro π. (C4) i Tilled Solls (C	Second (03)	ordary Indicators (2 or more required) Water Marks (81) (Riverine) Sadment Deposits (82) (Riverine) Drift Deposits (83) (Riverine) Dry-Senson Water Table (32) Craylish Burrows (08) Saturation Visible on Aerial Imagery (C. Shalow Aquitard (D9) FAG-Neutra) Tosi (D9)
LOW alfordstond and that will control !!	Depth (nohes amarks:  Depth (nohes amarks:  Depth (nohes amarks:  Depth (nohes amarks:  Surface Water Marks:  Surface Water Marks:  Surface Soil numberion Version Version Version Presentation Presenta	ogy indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (Not cracks (B6) fisible on Acrial I ed Leaves (B9) ons: resent? y fringe) ed Data (stream	ine) introduction (spring) interpolation (spring) introduction (sp	check ell that appl  Saft Cruet Biotic Cru Aquafic In Hydrogen Cividized F Presence Recent for Thin Muck Other (Ex)  Depth (in	iv)  (811) st (812) vertebrates (8 Sulfide Odor ( Rhizospheres a of Roduced iro in Reduction in c Surface (07) plain in Roman iches); ches); photos, previou	13) C1) along Ulving Ro or, (C4) Tilled Solls (C	Second (03)	ordary Indicators (2 or more required) Water Marks (B1) (Riverine) Sadiment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B30) Dry-Season Water Tobia (C2) Craytish Burrows (C8) Saturation Visible on Aerial Imagary (C Shallow Aquitard (D3) FAG-Neutra) Tosi (D5)
J J . J. L An A Litt + 1 An €	Depth (nohesemarks:  Production of Server of Proceed of Proceduration Procedures Capillar Procedures Capillar October Oct	ogy indicators: s (minimum of o er (A1) Table (A2) A3) s (B1) (Nonriver eposits (B2) (Not creats (B6) fisible on Actal I ed Leaves (B9) ons: resent? y fringe) ed Data Istream	ine) introduction (spring) interpolation (spring) introduction (sp	check ell that appl  Saft Cruet Biotic Cru Aquafic In Hydrogen Cividized F Presence Recent for Thin Muck Other (Ex)  Depth (in	iv)  (811) st (812) vertebrates (8 Sulfide Odor ( Rhizospheres a of Roduced iro in Reduction in c Surface (07) plain in Roman iches); ches); photos, previou	13) C1) along Ulving Ro or, (C4) Tilled Solls (C	Second (03)	ordary Indicators (2 or more required) Water Marks (B1) (Riverine) Sadiment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B30) Dry-Season Water Tobia (C2) Craytish Burrows (C8) Saturation Visible on Aerial Imagary (C Shallow Aquitard (D3) FAG-Neutra) Tosi (D5)

## WETLAND DETERMINATION DATA FORM - Arid West Region

colicant/Owner: <u>OAR INDIV J. SEAROR. LIVINA</u> nvestigator(a): <u>7. BARINS</u>	<u> </u>		Un 1stas		
•			State: _ <i>CA</i> -	Sampling Pole	
4 4	Sec	tor, Townsilp, Re	nge Los Meseures		
andform (hillsluge, temade std.): <u>AdSlope M dy</u>	898701 <b>9.2</b> Loc	sal retief (concavo	convex none): Goeta		Slope (%):
Jubinegilon (LRR): LRR C	Let: 34, /	4871908	1000: - 118.2660		atum: <u><b>1/9⊅</b> 2</u>
oil Map Unit Name: Webs land-Sapori, Jandsano	M- KARRISA Jugalizano	1 Parent . 13. 239			лин <u>үүдүү</u> И
re climatic / hydrologic conditions unline site typlor	al for libir time at your!	Var Var	NAM. CISS:	arrication:	
rsiVegetation <u>M</u> , Soil <u>M</u> , or Hydmingy _	mira amat ne or yoe:r				,
ra Vegetation <u>~</u> , Soil <u>~</u> , ar Hydrology _	signmeanly dist		"Normal Circumstance	_	
			eeded, explain any ans		
UMMARY OF FINDINGS - Attach sits	map showing sa	mpling point l	ocations, transec	ets, Important	features, et
Hydrophytic Vegetation Present? Yes	No V				
	No	Is the Sampled			,
	No	within a Wotter	nd? Yes_	No <del>y</del>	_
Remarks:	<del></del>		···—————		·
Downstream from TP/ - under open	on canony Seu	we dought e	on distribution i		
ECETATION Has selected access					<u> </u>
EGETATION - Use scientific names o	· ·				
Free Stratum (Plot alze:2o ')		minont Indicator poics? Status	Donithance Tost wa		
1. Quersus lobota.	40	Y FACY	Number of Dominan That Are OBL, FACS		<b>9</b> (A)
2. Querus agrifolia	30	4 NL			<u>2</u> (A)
Erasings letitolis		FACE	Total Number of Dat Species Apress Ali S		<b>5</b> m
Schillerses molle		NL.	'		· (B)
Spoling/State Stratum (Betielder 15 /	85 -1	otal Cover	Percent of Dominari That Are OSL, FACV	Species	O (A/B
	.)	L			<u>О</u> (A/B
1. Averus labors	<u></u>	<u>γ κω</u>	Provalence Index w		
2 Olca emopea		<u> </u>		f:	
·	———··—			×1=	
· · ·-·· ·- ·- ·- ·- · · · · · · · · ·			FACW species		
	22 = Ti	ptal Cover	FAC apecies	×3=_ ∕αΟ ×4=	
leru Stratum (Plotisize:/o)	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	nta Covar		<i>a</i> 0×45 <u>37</u> ×5≐	<u>-</u> -
<i>6/n</i>				-7	
S			COMMITTORIS:	<u> </u>	<u>44</u> 3 (8)
·				ex = 8/A = <u>Y</u> .	15
·			Hydrophytlo Veget:	atton Indicators;	· · ———
i	<u>_</u>		p. Dominance Teal		
i			Prevalence Inde		
			— Morphological A	daptations <sup>a</sup> (Provid irks or on a separa	ίο ευμμοτίτη
				aks or oa a separa ir <b>ephytic</b> Vegelega	•
Voody V де S;ratg;) - (∂lot size;)	<u></u> = 16	ital Cover	= residentialle riye	araşınyara oraşında ga	u (∈xbeili)
·			<sup>1</sup> Indicators of hydric	enil enri uralland Fo	ids, and en int
		···	be present, intessic	isturbed of problem	уа слоду (такк 1850)
		htal Crives	Hydrophytis		· <u>·</u>
6 Bare Ground in Herb Stratum			Vecetation		1
·- · · · · · · · · · · · · · · · · · ·	Gover of Blaffa Grust		Present?	Yes No.	<u></u>
browns 100% covered of last little	,				
ALTONIA 1-010 CONCELLED AND THESE THESE					
	isi.				
	<del></del> ·	<del></del>			 81 - Vursion 2.0

	culting: (Describe to	the depth	upob of bobeen	ment the	Indicator	០០ ០១០ពីនោ	the absence	of Indicators.)
)apth	Matrix		Rock	ox Feature	<del>بر</del>		<b>-</b> .	
nches)	Color (maist)	%	Color (moist)		Тура	Loc²	Texture	Remarks
<u>-0</u>	Jent lotter			_ `				feat little .
-3	10 YE 3/2	95	54R 3/4	_ <u> </u>		MIPC	. clay loom	nots
-12_	10 1/2 3/2	FOO				′	ŕ	
				<del>-</del>				
						<u> </u>		
/ps: C=0	Concentration, <u>D≃Depie</u>	ton, RM=R	edused Metrix, C	S-Covere	ed or Coate	d Sand Gr	ains. Lox	estion: PL=Pore Uning, M=Matrix.
rdric Soll	Indicators: (Applicat	ble to all LF	Rs, unloss othe	orwise no	ted.)		Indicators	for Problematic Hyeric Solia <sup>5</sup> :
Histoso	I(A1)		Sandy Rec	dox (3 <b>5</b> )			3 cm k	Muck (A9) (ERR C)
	sipedon (A2)		Stripped M					Auck (A10) (LRR B)
-	listic (A3)		Learning Mo				_	ed Vanio (F19)
	en Sulfide (A4)		Loamy Cre				_	azent Materiel (TF2)
	d Layers (Aó) (LRR C)	)	Depleted \				Oliei	(Explaid in Remarks)
-	cck (A9) (LRR D)	cade:	Redox Dar					
	ed Ectlow Dark Surface	(A11)	Depieted i				Blodleston	of hydrophytic vegetation and
_	tark Surface (A12)		Redox Dep		(50)			hydrology must be prosent,
	Mucky Měrerat (61)		Vernal Pox	uic (Fo)				isparbed or problemation
	Glayed Matrix (S4) Layez (if present):						1	
_								
Type:								Consister No. 200
Cepth (in	nches);	= al hu	 	Oxidata	n in fr	ne lang.	<u> </u>	Present? Yes No of
Depth (in siriarko:	phone ( Advantors	of hy	dosc soils.	Oxidata	ne sse fre	ne lung.	<u> </u>	
Depth (instruction of the control of	otres):  phone / phone / phone hor	= of hjo	doc soils.	Opeda ta	m ss. gr	nz lunus.	<u> </u>	
Depth (in particular for the control of the control	phone / phone		······		n 131 Ju	ux langs	. Ast not	on living 1908s.
Depth (in striates:  DROLC etland Hylmany Lad	phone / phone		ojjeckal thatepp	oly)	n 130 fr	ux lunus.	. But not	an Array 190/3.
Depth (in arriante)  O O O O O O O O O O O O O O O O O O O	phones):  phones / ph		sjeck al that epp Salt Crus	oly) dt (B11)	ne 131 Ja	ux lunus.	Soon	ndary indicators (2 or more rexpured)  Valer Marks (B1) (Riverine)
Depth (in striarts)  O Odd  DROLC  atland Hy Imary Lall  Sur/ace	phone / phone		ojjeck all that epr Solt Crus Blotto Cru	oly) of (B11) us: (B12)		ux lunus.	. But not	ndary indicators (2 or more rexpured)  Vater Marks (81) (Riverine)  Sedimark Doposits (82) (Riverine)
Depth (in product)  DROLC   Surface  High W  Saturat	phone / /hd/co-loss  OGY  /drology Indicators:   vators (minimum of one  OWater (A1)  ster Tablo (A2)  ion (A3)	<u>o re</u> gulrod ြ	sijeck all that epp Sa't Crus Blatic Ca Aqvalic h	oly) it (B11) us: (B12) uverlebra:		ne lang.	. But not	nday indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimant Deposits (B2) (Riverine)
Depth (in anado)  O Gold  DROLC  etland Hy  mary India  Surface  High W  Saturat  Water i	phone / // // // // // // // // // // // //	o reguirod <u>u</u> ne)	sijeck all that epr Salt Crus Bletle Cru Aquallon Hydroger	oly) it (B11) ust (B12) uvorlebrat n Sultide C	es (B13) Oder (C1)		Socon  Socon  V  S	ndary indicators (2 or more required)  Vater Marks (B1) (Riverine)  Sedimark Deposits (B2) (Riverine)  Ordinage Patterns (B10)
DROLC  The String High Water it Sedimores	phone / // // // // // // // // // // // //	o reguirod <u>u</u> ne) riverine)	sjjeck all frat epp Salt Crus Blotfo Cru Aquallon Hydroger Oxidizaci	oly) d (B11) us: (B12) uwerlebret n Sulade C Rhizosph	es (B13) Odor (C1) eres along	Living Res	Source Source V Source V Source V Source V Source So	ndary indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimark Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)
DROLC  Transplad  Brought High W  Saturat  Water it  Sedimo	phone / // // // // // // // // // // // //	o reguirod <u>u</u> ne) riverine)	gjeck all that epp Salt Crus Blotfo Cru Aquallo ii Hydroger Oxidizad Presence	oly) it (B11) us: (B12) uverlebra: n Sulade C Rhizosph o of Rectue	es (B13) Odor (C1) eres along and fron (C	Living Res	Soco Y S Soco S Soci S	ndary indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimark Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)
DROLC etland Hy mary Ltd Surface High W Saturat Water I Sedimo	phone / // // // // // // // // // // // //	o reguirod <u>u</u> ne) riverine)	gjeck all that epp Salt Crus Blotfo Cru Aquallo ii Hydroger Oxidizad Presence	oly) it (B11) us: (B12) uverlebra: n Sulade C Rhizosph o of Rectue	es (B13) Odor (C1) eres along and fron (C	Living Res	Soco - Y - Soco - Y - Soco - Y - Soco	ndary indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimark Doposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Originage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seturation Visible on Aerial Imagory (C
Depth (in anado)  O Option  DROLO  etland Hy  mary Intl  Surface  High W  Saturat  Water i  Soffmo  Surface  Surface	phone / phone	o regulrodu ne) riverine) no)	sireok al that epr Salt Crus Blotfo Cru Aquallo ii Hydroger Oxidizad Presence Rocent In	oty) et (B11) ust (B12) uverlebret n Sulade C Rhizosph et Rocius um Reckies sk Surface	es (813) Oder (C1) eres along ced fron (C dion in Tille	Living Res	Soco Y Cats (C3) C C	ndary indicators (2 or more expured)  Vater Marks (B1) (Riverine)  Sedimart Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seduration Visible on Aerial Imagory (Ca)  Shallow Aquitard (U3)
Depth (in anarta)  OROLO  etland Hy  Enery Lett  Surface  High W  Saturat  Water i  Sedimo  Surface  Intendal	phoses / //which loss  OGY  /drology Indicators:  cators (minimum of one   Water (A1)    ster Tablo (A2)    ion (A3)    warks (B1) (Nonriverinal posits (B2) (Norriverinal posits (B3) (Norriverinal pos	o regulrodu ne) riverine) no)	sireok al that epr Salt Crus Blotfo Cru Aquallo ii Hydroger Oxidizad Presence Rocent In	oby) of (B11) us: (B12) uverlebrat n Sulade C Rhizosph of Reciud	es (813) Oder (C1) eres along ced fron (C dion in Tille	Living Res	Soco Y Cats (C3) C C	ndary indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimark Doposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Originage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seturation Visible on Aerial Imagory (C
Depth (in anaria)  DROLC etland Hy haray half Surface High Water it Sedimo. Surface Intendal Water Street	phones):  phones / ph	o regulicod:u ne) riverine) no) ragery (B7)	Sireck all that epr Salt Crus Biblic Cru Aquallon Hydroger Oxidizad Presence Rocont in Thin Muc	oly) st (B11) ust (B12) uverlebret n Sultide C Rhizosph e of Rocius on Reckies sk Surface spain in R	es (813) Oder (C1) eres along ced fron (C dion in Tille	Living Res	Soco Y Cats (C3) C C	ndary indicators (2 or more expured)  Vater Marks (B1) (Riverine)  Sedimart Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seduration Visible on Aerial Imagory (Ca)  Shallow Aquitard (U3)
Depth (in anarto)  O Gold  DROLC ettend Hy Imary India Surface High W Saturat Water in Sedimo Drift Do Surface Intended Water Still Obso	phones):  phones / ph	o regulicod:	Sireck all that epr Salt Crus Biblic Cru Aquallo in Hydroger Oxidizad Presence Recent in Thin Muc Other (E)	oty)  st (B11) ust (B12) uverlebret n Sultide C Rhizosph. e of Reciue con Reckno- ck Sunface spain in R	es (B13) Oder (C1) eres along ted fron (C florr in Tille (C7) lemarks)	Living Res	Soco Y Cats (C3) C C	ndary indicators (2 or more expured)  Vater Marks (B1) (Riverine)  Sedimart Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seduration Visible on Aerial Imagory (Ca)  Shallow Aquitard (U3)
Depth (in anarto)  DROLC ettend Hy Imary India Surface High Water it Sedimo Drift Do Surface Intended Water Surface Water Surfac	phones):  phones / ph	o regulicod:	Sireck all that epr Salt Crus Biblic Cru Aquallo in Hydroger Oxidizad Presence Recent in Thin Muc Other (E)	oty)  st (B11) ust (B12) uverlebret n Sultide C Rhizosph. e of Reciue con Reckno- ck Sunface spain in R	es (B13) Oder (C1) eres along ted fron (C florr in Tille (C7) lemarks)	Living Res	Soco Y Cats (C3) C C	ndary indicators (2 or more expured)  Vater Marks (B1) (Riverine)  Sedimart Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seduration Visible on Aerial Imagory (Ca)  Shallow Aquitard (U3)
Depth (in anarth)  DROLC atland Hy Imacy Ltd. Surface High Water 1 Sedimo Drift Do Surface Intendal Water Suld Obsourface Water Tobk	phone / phone	o regulicod: ne) riverine) no) ragery (B7)	sijeck all that epr Sa't Crus Blotfo Cro Aquallo ii Hydroger Oxidizaci Presence Recent in Thin Muc Other (=)	oby)  of (B11)  us: (B12)  uwerlebrat  n Sulade C  Rhizosph  of Rectue  were Reckre  k Surface  kpain in R  nohes):	es (B13) Oder (C1) eres along ted fron (C florr in Tille (C7) lemarks)	Living Res	Soor No. 1  Soor No. 2  Soor N	indary indicators (2 or more rexpured) Vater Marks (B1) (Riverine) Sedimart Deposits (B2) (Riverine) Ordinage Patterns (B40) O
Depth (in partialities)  DROLC ettland Hy Imary India Surface High Water it Sedimo Surface Intended Water Suld Obsourface Water Table sturet on Folluges care	physical (Addicators:  cators (minimum of one)   Water (A1)   ster Tablo (A2)   ion (A3)   warks (B1) (Nonriverin   posits (B3) (Nonriverin   soli Cracks (B6)   ion Visible or Acrial Interpretations:   ster Present? Yes   present Yes	o regulicod:	sireck all that epr Soft Crus Bletfe Cru Aquallo in Hydroger Oxidized Presence Recent in Thin Muc Other (E) Depth (in	oly)  at (B11) us: (B12) nworlebrat n Sulade C Rhizosph of Reciue on Reckro ak Surface kpain in R nohes): nohes): nohes):	es (B13) Oder (C1) eres along and from (C flom in Tille (C7) lemarks)	Living Rec	Socos	ndary indicators (2 or more expured)  Vater Marks (B1) (Riverine)  Sedimart Deposits (B2) (Riverine)  Orith Deposits (B3) (Riverine)  Oralinage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seduration Visible on Aerial Imagory (Ca)  Shallow Aquitard (U3)
Depth (in anaria)  DROLC ettand Hy Interviolal Surface Intendal Water Suld Obsourface Water Tobk sturator Folludas serious Surface Cludas serious Surface Water Tobk sturator Folludas serious Surface Water Surface Wat	phone / // // // // // // // // // // // //	o regulicod:	sireck all that epr Soft Crus Bletfe Cru Aquallo in Hydroger Oxidized Presence Recent in Thin Muc Other (E) Depth (in	oly)  at (B11) us: (B12) nworlebrat n Sulade C Rhizosph of Reciue on Reckro ak Surface kpain in R nohes): nohes): nohes):	es (B13) Oder (C1) eres along and from (C flom in Tille (C7) lemarks)	Living Rec	Socos	indary indicators (2 or more rexpured) Vater Marks (B1) (Riverine) Sedimart Deposits (B2) (Riverine) Ordinage Patterns (B40) O
DROLC  etland Hy  limary Indi  Surface  High W  Saturat  Water i  Sufface  Intridet  Water Saturat  Water Saturat  Unit Doso  unface Water Tobke  storation Relater Re-	phones):  phones / ph	o regulicod (decimie) priverine) ragery (B7) s No s No gauge, reon	Sireck all that epr Salt Crus Blotfo Cru Appallo in Hydroger Oxidizaci Presence Recent in Thin Muc Other (E) Depth (in	oly)  at (B11) us: (B12) uverlebrat n Sulade C Rhizosph a of Reckue van Reckue kpain in H nches): nches): nches): I pnotos, p	es (B13) Oder (C1) eres along od fron (C tion in Tille (C7) femarks)	Living Roc  4)  d Solfs (C0  Wetl	Second Property of Second Proper	ndary indicators (2 or more rexpured)  Vater Marks (B1) (Riverine)  Sedimark Doposits (B2) (Riverine)  Originage Patterns (B10)  Ory-Spason Water Table (C2)  Creyfish Burrows (C8)  Seturation Visible on Aerial Imagory (Ci  Shallow Aquitard (U3)  FAC-Neutral Tast (D5)
DROLC  etland Hy  mary Lid  Surface  High W  Saturat  Water 1  Surface  Intridat  WaterS  Itd Obso  rface Wa  poter Toble  turat or F  cludes as  sorbo Re	phones):  phones / ph	o regulicod (decimie) priverine) ragery (B7) s No s No gauge, reon	Sireck all that epr Salt Crus Blotfo Cru Appallo in Hydroger Oxidizaci Presence Recent in Thin Muc Other (E) Depth (in	oly)  at (B11) us: (B12) uverlebrat n Sulade C Rhizosph a of Reckue van Reckue kpain in H nches): nches): nches): I pnotos, p	es (B13) Oder (C1) eres along od fron (C tion in Tille (C7) femarks)	Living Roc  4)  d Solfs (C0  Wetl	Second Property of Second Proper	indary indicators (2 or more rexpured) Vater Marks (B1) (Riverine) Sedimart Deposits (B2) (Riverine) Ordinage Patterns (B40) O

## WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: BAKKMANT SEANOR / CANVOYOR	<u></u>	AA MILLS Samp.lng Oste: 10/81/16
ApplicandOwner <u>OAMMONT SENDOR LIMING</u>	-,	State: CA Santolling Point; 77°3
Investigatoris): T. BHKNS	Section, Township, F	Sange LAS Virgenes Civil Lang GRANT
Landform (hillslope, terrape, etc.): Attression by letter	toe of star Local relief (commente	contrat nonal. Paris and and analysis 2
Sebregion (LRR): LAR C	7// 18/07/740/411	and make the state of
Scil Mas Unit Name: When land - Symi, Answord-L		Long:
Are all matter/injurious a conditions on the site typical for	Uhla timo of user 2 Var	NVII Glassification: 70/7
Are Vegenstion N Soil N or Hydrology N		
Are Vegetation _ M _ Soil _ M _ or Hydrology _ M		a "Normal Circumstances" prasent/   Yes No
		needed, explain any answors in Romarks.)
SUMMARY OF FINDINGS - Attach site ma	ip showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Procent? Yes	No	
Hydrid Soil Present? Yes	No Is the Sample	
Weitend Hydrology Present? Yes	No Within a Wath	ere? Yes No/
TP3 is located at confluence at Come	wete V-detak- and area	in Langue expense in it has
of store (east) and termines of east	1. 1. Albund (a. H) Ale	to be dead with the fill
of April (EAST) and Alternate of bar		were durable continous
VEGETATION - Use scientific names of pla		Wangas
	Absolute Confinant Indicator	Deminance Test worksheet:
Tree Stratum (Plot size: 15'	% Cover Spoules? Status	Number of Dominant Species
1. Sette basistipes		That Are OSL, PACW, or FAC: 2(A)
2. Queus / bata	10 9 AKU	 
3		. Spodes Across Alf Strate:(B)
		Percent of Dominant Species
, <u>Sapline/Shrub Stratum</u> (Physize:	<u> 20</u> _= Total Cover	That Ails CBL, FACW, or FAC:
i. Quenus labata	2: Y FALU	Prevalence Index worksheet:
2		Total 3/s Coyet, g1
3,	<del></del>	D8L speciles <del>/10</del> <sup>√/</sup> ×1= <del>// //</del> /8
4	··	FACW spholos x 2 =
6		FAC species x3 =
Horb Stratum (Plot size:	<u>2</u> , ≈ Tota! Cover	FACI species 12 ×1 = 48
1 Januar by Hing	_ 100 <u>Y</u> PACW	UF1 species $x = x = x = x$ Column Totals. $x = x = x = x = x$ (8)
2		Column Totals(A)(B)
3		Prevalence index $= 9/\Lambda = \frac{2 \sqrt{9}}{2}$
4	<del></del>	Hydrophytic Vegetation Indicators:
5		Enminance Test is >50%
6		Provaignoe Index is \$3.01
7	···	Morphological Adaptetions <sup>1</sup> (Provide supporting data in Romarks or on a separate sheet)
	= Total Cover	Problematic Hydrophytic Vagetation <sup>1</sup> (Explain)
Wgody Vide Strating (Plot size:)		
1		Incleators of hydric soil and walland hydrology must
2,		be present, unices disturbed or grublemete.
-	= Totar Cover	Hydrophytic
% Bara Ground in Herd Stratum % Cov	ar of Sinite Cyust	Vegetation Present? Yes Ko
Remarks:	· · · · · · · · · · · · · · · · · · ·	
Personal Incus with energial Averas.	hoboton. Aren Appenses to	or Mansolveny Kum wetter avec
to dier uplande	•	-
An Anna Linnary		
· · · · · · · · · · · · · · · · · · ·		
.S Arthy Gorps of Englineers	_ <del>_</del>	And Word - Version 2.0

	cription: (Describe t	o ale tich	о <b>ло</b> есьвае пу				or contin	III tile Anze	anua ot	13 8.33 (-016)	vi 44)		
et:p	Matrix		<del></del> :·· <del>_</del>		<u>Feature</u>	<u>5</u>	2	Y			Remark	49	
uchosi <u> </u>	Color (# 9 s1)	<u>%</u>	Color (me		%	Tvoc'	1.50 <sup>2</sup>	Textur	~		_		
-6	104-2/1	13	7,5 4F	116	<u> </u>	<u> C </u>	PL	chap to	******	Moor	<u>"3                                    </u>		
-113	10 1/2 2/1	100						ctoy le	from_				_
								•					
											—·::		
									<u>* .                                     </u>				、
							_						
- V							·						
						:							
ypat G-0	Concertration, D=Dup	etion, R <u>M</u> :	=Reduced M	atrix, CS	=Со <b>ч</b> еге	d or Coat	<u>od Srind S</u>	<u> Proine.</u>			-Parc Cining		
dric Sail	Indicators: (Applica	ible to all	LRRs, unice	ss otherv	ion eafy	ted.)		india			amatle Hyd	ric Sol s	-:
Histoso	I (A1)		5an	idy Rado!	x (85)			_		ck (A <b>9</b> ) (			
_ Hisựp B	pipadon (A2) 💎 🦠			pped Mat							(LRR B)		
3leck1	listle (A3)			rny Muck						l Verto (			
	cn Sulfide (A4)			my Gleya				_			rial (TF2) Zamadas∑		
	d Layers (A5) (LRR 0	<del>?</del> }		nieted Vla				— <sup>6</sup>	igner (3	хріяналіп	Remarks)		
	luck (AS) (LRR D)			jox Dark (									
	🗴 Below Dark Surface	n (A11)	•	Detec Ja				_ال9		Garrele sank	rytic vegeta	hee not	
	ark Surface (A12)			lox Dapre		(3-8):					Witst pe bie Mry večem		
	Mucky Mineral (S1)		ver	nal Pools	(1.9)				_		i biopjewa <sub>č</sub> i Mažnos bie		
	Oleyed Matrix (S4)								<u></u>	ancoa a	problems:		-· —
strictive	Layer (if present):							1					
						·-		_ I			•		
Type:								- 1					
Depth (li enants: S <sub>a.1</sub> do	ei h-1 med ord	ena for		red 127	per <b>s</b> .;	Mariy	un Hori				Yes		· ·-
Dopth (li en antes: S <sub>a-1</sub> do		ema for	statih	red 127	pers.;	mariq	Un low						· ·-
Copta (li sa anks: Sa.1 dos The Po	er hat meet cret on linings.		statih	red 1sy	pers.;	Mariq	unifori						· ·-
Copta (III Said do The Po DROLO	er hat meet orch va hange ogy		esptih	red 127	pers.;;	Marty	un lov						· ·
Coptn (In an anks:  Sa. 1 do  The po  DROLO  atland H	er had med Orch va hinings. DGY ydrology Indicators:					Mary	undon	m u/ e	weep to	un st	Cooper to	ertions .	
Copth (limited Sold Action of the Coption of the Co	en had meet croke on hinings. OGY ydrology Indicators: joators (minimum of o			ihet sopły	· · · —	Mariy	un dove	m u/ e	weyho	arv Indic	Conner h	nioxe reg	 #1
Copth (In strenks:  Sa. 1 do  The po  DROLL  ottland H  grany tax  Surface	en had meet croke on hinings. OGY ydrology Indicators: joators (minimum of o			thet sophy	0	Mary	un for	m u/ e	Socone	arv India	esoner h	ntose reg	directi-
Depth (III arents: Sulface Po DROL( attend H Imary Itx Surfec High W	ev had meet croke we have get ogy ydrology Indicators:   coators (minimum of coators (A1)   cotor Tobio (A2)			that apply a t Crust ( offe Crust	0 (B11) F(B12)		un for	m u/ e	Saccinc Wa	arv India der Mark diment C	estors (2 or 3 (81) (Rivier) (82)	nice reg	directi-
Copth (III cranks: Sa.1 do Thu. po DROLO atland H imany bx Surfec High W Satura	es he meet croke we harrys.  OGY ydrology Indicators: licators (minimum of a s Water (A1) tater Tobio (A2) tion (A3)			that epply a t Crust ( lotte Crust qualle Inv	) (811) I (812) entebret	 bes (E13)	un for	m u/ e	\$20001c Wa Se Pri	arv India Rer Mark diement D A Capos	######################################	ntove reg erine)	directi-
Depth (III Branks:  Sa. 1 do  Thu. Po  DROLO  atland H  many lax  Surfec  High W  Satura  Water	es he meet creke we knings.  OGY ydrology Indicators:   cotors (minimum of a s Water (A1)   ater Tobio (A2)   ton (A3)   Marks (B1) (Nooriver	ngenequire		that sophy a t Crust ( offe Crust qualle Inv ydrogen \$	0 (B11) I (B12) entebret Sulfide C	es (B13) Odor (C1)		m u/ e	Second Wa Dri	arv India Rer Mark diment D & Capos hinage P	estors (2 or 3 (B1) (Riv eposits (B2) (ks (B3) (Riv etterns (B1)	ntore rag erine) (Riverine)	direction
Depth (III Branks:  Sal do  DROLO  atland H Imary Itx  Surfeo  High W  Satura  Water  Sedima	ev had meet creke we likelige. DGY ydrology Indicators: ligators (minimum of o a Water (A1) later Tablo (A2) tion (A3) Marks (B1) (Noorivar ant Doposits (B2) (No	nr(vcrine)		that sophy a t Crust I lotte Crust quatte Inv ydrogen \$ xidized R	0 (B11) I (B12) entebret Sulfide C	es (B13) Odor (C1) erss Stull	n Living R	m u/ e	Second Wa Dri	arv India Rer Mark diment D & Capos ninage P & Season	estors (2 or as (B1) (Rive) (B2) (Rive) (B3) (Rive) (B1) (Rive) (B4) (Rive) (B4) (Rive) (B4) (Rive) (B4) (Rive) (B4) (Rive) (Rive) (B4) (Rive)	ntore rag erine) (Riverine)	direction
Depth (III Branks: Sa.1 do The Po DROLC atland H Imany Itx Surfec High W Satura Water Sedime Drift De	ev har meet creke we hirtys. DGY ydrology Indicators: ligators (minimum of o s Water (A1) fater Tobio (A2) tion (A3) Marks (B1) (Nooriver ent Deposits (B2) (No aposits (B3) (Noorive	nr(vcrine)		that spely a t Crust I offe Crust quade Inv ydrogen S xidized R resence o	() (B11) (B12) engbret Sufide C thizosph	isa (B13) Odor (C1) eres a'lun esc Iron (C	n Living R 54)	m 4/ c	Second We Second Dri Dri On	arv India Rer Mark diment D & Capos ninage P & Season ayfish Ru	estors (2 or as (B1) (Rive) (B2) (Rive) (B3) (Rive) (B1) (Rive) (B4) (Rive) (B4) (Rive) (C8)	niore reg erine) (2) (Riverine) (3) (CZ)	ulrad)
Depth (III Branks: Sal do The po DROLO attand H Imany tox Surfec High W Satura Water Sedime Drift De Surfec	ev har meet creke we hirtys. DGY ydrology Indicators: lipstors (minimum of o s Water (A1) fater Tablo (A2) tion (A3) Marks (B1) (Nooriver ent Deposits (B2) (No aposits (B3) (Noorive e Soll Cracks (B8)	Ino)		that sophy alt Crust ( lotte Crust qualle inv ydrogen \$ xidized R resente d ecent kol	0 (B11) I (B12) Entebret Suffide C Ibizosphol Reduc	es (813) Odor (C1) erss shun sec Iron (C	n Living R	m 4/ c	Second Wa Se Dri Dri Dri Se	orv Indicates Mark dement D A Capos ninage P - Season ayfish Bu turation 1	estors (2 or. s (81) (Rivideposi's (82) leposi's (83) (Rivideposi's (83) (Rivideposi's (83) (Rivideposits) (R	niore reg erine) (2) (Riverine) (3) (CZ)	/h
Dopth (III orantes:  Sulface Por DROLC etland H Imary Itx Surfece High W Satura Water Section Drift De Surfece Inunda	ev hard order order by history.  DGY  ydrology Indicators: (minimum of one Water (A1)  ster Toblo (A2)  tion (A3)  Marks (B1) (Nonriver ant Deposits (B3) (Norder aposits (B3))	Ino)	0; shook st 1 	that sophy at Crust ( ode Crust qualle Inv ydrogen s xidized R resence c ecant Ivor hin Muck	0 (B11) (B12) enebret Suffide C shixosph of Reduc Reduc Surface	esa (813) Odor (C1) eres alun) esc Iron (C alon in Till (C7)	n Living R 54)	m 4/ c	Second Wa Se Dri Dri Dri Sa Sa	arv India Rer Mark dement C A Capos almage F - Season ayfish Bu turation to	stors (2 or. s (81) (Riving (83) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (85) (Riving (85	ntore reg erine) () (Riveri verine) () (C2)	/h
Dopth (III aranks:  2.1 do  Ar. po  DROL( atland H III) Mary tx Surfec High W Satura Water Sedim Drift Dr Surfec Inunda Water	ev h- meet creke va kinings. DGY ydrology Indicators: ligators (minimum of s e Water (A1) fater Tobio (A2) tion (A3) Marks (B1) (Nonriver ant Deposits (B2) (No aposits (B3) (Norriver e Soll Cracks (B3) tion Visibic on Aerial I Eteined Lexyos (B3)	Ino)	0; shook st 1 	that sophy alt Crust ( lotte Crust qualle inv ydrogen \$ xidized R resente d ecent kol	0 (B11) (B12) enebret Suffide C shixosph of Reduc Reduc Surface	esa (813) Odor (C1) eres alun) esc Iron (C alon in Till (C7)	n Living R 54)	m 4/ c	Second Wa Se Dri Dri Dri Sa Sa	arv India Rer Mark dement C A Capos almage F - Season ayfish Bu turation to	estors (2 or. s (81) (Rivideposi's (82) leposi's (83) (Rivideposi's (83) (Rivideposi's (83) (Rivideposits) (R	ntore reg erine) () (Riveri verine) () (C2)	/h
Dopth (III aranks: Sulface Port Port DROL( atland H Imary tex Surfece High W Satura Water Sedim Drift Do Surfece Inunda Water	ev hard croke  or hintys.  DGY  ydrology Indicators:  cators (minimum of classer (A1)  ster Table (A2)  tion (A3)  Marks (B1) (Nenriver ant Deposits (B3) (Neridver a Sell Cracks (B8)  ttor. Visible on Aerial I  Eteined Lexives (B3)  ervations:	Ino) nriverine) rine)	0; steck at 1	that sophy a t Crust ( jodic Crust guadic Inv ydrogen \$ xidized R resente c seant Ivor hin Muck ther (Exp	0 (B11) (B12) errebret Suffide C thizosphol Reduct Surface lein in R	es (B13) Ddor (C1) erss alun sec Iron (C Ajon in Till (C7) temarks)	g Living R C4) ed Soils (	m 4/ c	Second Wa Se Dri Dri Dri Sa Sa	arv India Rer Mark dement C A Capos almage F - Season ayfish Bu turation to	stors (2 or. s (81) (Riving (83) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (85) (Riving (85	ntore reg erine) () (Riveri verine) () (C2)	wired)
Depth (III Branks: Sa. I do Thu. Po DROLO atland H Imary Ix Surfeo High W Satura Water Sedim Drift Do Surfeo Inunda Water eld Obse	ev h- meet creke va trings.  DGY  ydrology Indicators:  cators (minimum of o e Water (A1)  fater Tobio (A2)  Iton (A3)  Marks (B1) (Nonriver ent Deposits (B2) (No aposits (B3) (Norielver e Soll Cracks (B3) itor. Visibic on Aerial I Eteined Leaves (B3) ervations:	Ino) nrfverine) rine) Imagery (E	d; struck at 1   Si   Bi   Ac   Ac   Ac   Ac   Ac   Ac   Ac   Ac	that sophy to Crust I juste Crust quatte Inv ydrogen S xidized R resente d exant Ivol hin Muck ther (Exp	(B11) (B12) engebret Surfide C thizosphol Reduct Surface Iden in R	osa (B13) Odor (C1) eras alun esc Iron (C Alon in Till (C7) ternarks)	g Living R C4) ed Soils (	m 4/ c	Second Wa Se Dri Dri Dri Sa Sa	arv India Rer Mark dement C A Capos almage F - Season ayfish Bu turation to	stors (2 or. s (81) (Riving (83) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (85) (Riving (85	ntore reg erine) () (Riveri verine) () (C2)	wired)
Depth (III	ev h- meet creke va trings.  DGY  ydrology Indicators:  cators (minimum of o e Water (A1)  fater Tobio (A2)  Iton (A3)  Marks (B1) (Nonriver ent Deposits (B2) (No aposits (B3) (Norielver e Soll Cracks (B3) itor. Visibic on Aerial I Eteined Leaves (B3) ervations:	Ino) nrfverine) rine) Imagery (E	d; struck at 1   Si   Bi   Ac   Ac   Ac   Ac   Ac   Ac   Ac   Ac	that sophy to Crust I juste Crust quatte Inv ydrogen S xidized R resente d exant Ivol hin Muck ther (Exp	(B11) (B12) engebret Surfide C thizosphol Reduct Surface Iden in R	osa (B13) Odor (C1) eras alun esc Iron (C Alon in Till (C7) ternarks)	g Living R C4) ed Soils (	ooks (C3)	Second Wa Se Dri Dri On Sa Sh	arv India der Mark dement D & Cepos ninage P /- Seasor ayfish Br duration 1 allow Ac C-Neutra	estors (2 or les (81) (Rive) esterns (81) (Rive) externs (81) r Wats: Tab irrows (08) V:sible on A uitand (00) al Test (05)	ntore reg erine) () (Riveri verine) () () (C2)	ne)
Depth (III Branks:  Sulfan Pa  DROLO otland H Imary Itx Surfan High W Satura Water Sedim Oriff De Surface Inunda Water eld Ober Vaface W  Fabr Table	ev h- meet creke va trings.  DGY  ydrology Indicators:  cators (minimum of o e Water (A1)  fater Tobio (A2)  Iton (A3)  Marks (B1) (Nonriver ent Deposits (B2) (No aposits (B3) (Norielver e Soll Cracks (B3) itor. Visibic on Aerial I Eteined Leaves (B3) ervations:	Ino) nrfverine) rine) Imagery (E	d; struck at 1   Si   Bi   Ac   Ac   Ac   Ac   Ac   Ac   Ac   Ac	that sophy to Crust I juste Crust quatte Inv ydrogen S xidized R resente d exant Ivol hin Muck ther (Exp	(B11) (B12) engebret Surfide C thizosphol Reduct Surface Iden in R	osa (B13) Odor (C1) eras alun esc Iron (C Alon in Till (C7) ternarks)	g Living R C4) ed Soils (	ooks (C3)	Second Wa Se Dri Dri On Sa Sh	arv India der Mark dement D & Cepos ninage P /- Seasor ayfish Br duration 1 allow Ac C-Neutra	stors (2 or. s (81) (Riving (83) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (84) (Riving (85) (Riving (85	ntore reg erine) () (Riveri verine) () () (C2)	ne)
Depth (III sharks:  Sulface Po  DROLC otland H imary loc Surfece High W Satura Water Sedim Doll De Surfece Inunda Water eld Obset urface W  Saturadon ochuden	ev hard croke  yethings.  DGY  ydrology Indicators:  cators (minimum of classer (A1)  fator Table (A2)  Iton (A3)  Marks (B1) (Neoriver and Deposits (B3) (Norictver Soll Cracks (B6)  iton Visible on Aerial Eteined Lexives (B3)  ervations:  are Present?  Present?  Present?	Ino) Introduction Integral (E	0; stuck at 1	that sophy to Crust I totic Crust quatic inv ydrogen s xidized R resente c exant Iron hin Muck ther (Exp Depth fine Depth (Ind	(B11) (B12) (B12) (B16)	osa (B13) Odor (C1) eras alun) eras alun) eras Iron (C Alan in Till (C7) ermarks)	g Living R C4) ed Soils (	ooks (C3)	Second Wa Ser Dri Dri On Sal Sh	arv India der Mark dement D & Cepos ninage P /- Seasor ayfish Br duration 1 allow Ac C-Neutra	estors (2 or les (81) (Rive) esterns (81) (Rive) externs (81) r Wats: Tab irrows (08) V:sible on A uitand (00) al Test (05)	ntore reg erine) () (Riveri verine) () () (C2)	ne)
Depth (III stranks: Sa. I do Thu. Po DROL( atland H Imary loc Surfec High W Satura Water Sedim Dott Do Surfec Inunda Water eld Obser urface W Saturadon ochudae	ev half meet croke we livings.  DGY ydrology Indicators:  ipstors (minimum of o e Water (A1) /// Tobio (A2)  Iton (A3) Marks (B1) (Nooriver ent Doposits (B2) (No eposits (B3) (Nooriver e Soll Cracks (B8) // for Visible on Aerial // Eteined Leaves (B3)  ervettons: // resent? // Present? // Present? // Soll Cracks (B3)	Ino) Introduction Integral (E	0; stuck at 1	that sophy to Crust I totic Crust quatic inv ydrogen s xidized R resente c exant Iron hin Muck ther (Exp Depth fine Depth (Ind	(B11) (B12) (B12) (B16)	osa (B13) Odor (C1) eras alun) eras alun) eras Iron (C Alan in Till (C7) ermarks)	g Living R C4) ed Soils (	ooks (C3)	Second Wa Ser Dri Dri On Sal Sh	arv India der Mark dement D & Cepos ninage P /- Seasor ayfish Br duration 1 allow Ac C-Neutra	estors (2 or les (81) (Rive) esterns (81) (Rive) externs (81) r Wats: Tab irrows (08) V:sible on A uitand (00) al Test (05)	ntore reg erine) () (Riveri verine) () () (C2)	ulred) ne)
Depth (III charks:  Sulf do  Phus po  DROLO otland H imary lot Surfeo High W Satura Water Sedim Dout Do Surfeo Inunda Water Feld Obset urface W  Fater Table poturation	ev hard croke  yethings.  DGY  ydrology Indicators:  cators (minimum of classer (A1)  fator Table (A2)  Iton (A3)  Marks (B1) (Neoriver and Deposits (B3) (Norictver Soll Cracks (B6)  iton Visible on Aerial Eteined Lexives (B3)  ervations:  are Present?  Present?  Present?	Ino) Introduction Integral (E	0; stuck at 1	that sophy to Crust I totic Crust quatic inv ydrogen s xidized R resente c exant Iron hin Muck ther (Exp Depth fine Depth (Ind	(B11) (B12) (B12) (B16)	osa (B13) Odor (C1) eras alun) eras alun) eras Iron (C Alan in Till (C7) ermarks)	g Living R C4) ed Soils (	ooks (C3)	Second Wa Ser Dri Dri On Sal Sh	arv India der Mark dement D & Cepos ninage P /- Seasor ayfish Br duration 1 allow Ac C-Neutra	estors (2 or les (81) (Rive) esterns (81) (Rive) externs (81) r Wats: Tab irrows (08) V:sible on A uitand (00) al Test (05)	ntore reg erine) () (Riveri verine) () () (C2)	ne)
Depth (III Branks:  Sold DROLO atland H Imary Itx Surfeo High W Satura Water Sedim Doit Do Surfeo Inunda Water HIGH Ober Inface With Satura Inface With Satura Inface With Satura Indidas of	ev h- meet creke ye frithgs.  DGY ydrology Indicators:  cators (minimum of o e Water (A1) /ater Tobio (A2) Iton (A3) Marks (B1) (Nooriver ent Deposits (B2) (No aposits (B3) (Nooriver e Soll Cracks (B8) fron Visible on Aerial I eteined Leaves (B3) arvations: arer Present?  Present?  Present?  pulliary fringe) accorded Data (stream	Ine) Introcine) Integery (E	d; sheek at 1   Si	that spely a t Crust ( offe Crust qualle Inv ydrogen S xidized R resente d ecent Ivol hin Muck ther (Exp Depth fine Depth (Inc Depth (Inc	B11) (B12) (B12) (B12) (Birospholicosp	es (B13) Odor (C1) erss alun sec Iron (C Afon in Till (C7) ternarks)	g Living R 24) ed Soils ( VVe	ooks (C3)	Second Washington Dri Dri Dri On Sai Sh	arv India Rer Mark diment C A Cepos ninage F /- Seasor ayfish Br turation t allow Ac C-Neutro	stors (2 or sign)	ntore reg erine) () (Riverine) () (C2) (catel line	ulred)
Depth (III aranks: Sal do DROLO atland H irrary Itx Surfeo High W Satura Water Sedim Drift Do Surfeo Inunda Water eld Obse afor Tabl oturation chidas o	ev hard croke  yethings.  DGY  ydrology Indicators:  cators (minimum of classer (A1)  fator Table (A2)  Iton (A3)  Marks (B1) (Neoriver and Deposits (B3) (Norictver Soll Cracks (B6)  iton Visible on Aerial Eteined Lexives (B3)  ervations:  are Present?  Present?  Present?	Ine) Introcine) Integery (E	d; sheek at 1   Si	that spely a t Crust ( offe Crust qualle Inv ydrogen S xidized R resente d ecent Ivol hin Muck ther (Exp Depth fine Depth (Inc Depth (Inc	B11) (B12) (B12) (B12) (Birospholicosp	es (B13) Odor (C1) erss alun sec Iron (C Afon in Till (C7) ternarks)	g Living R 24) ed Soils ( VVe	ooks (C3)	Second Washington Dri Dri Dri On Sai Sh	arv India Rer Mark diment C A Cepos ninage F /- Seasor ayfish Br turation t allow Ac C-Neutro	stors (2 or sign)	ntore reg erine) () (Riverine) () (C2) (catel line	ulred)

A행 West – Version 2 간

### WETLAND DETERMINATION DATA FORM - Arid Wost Region

Project/3 to: Offemon 7 SEMAL / CANWOOD		Gily/Ceunty:	CA. HZLLS	Sampling Da	te: 10/2/16
Applicant/Owner, ONKMONT SEMIN LIVENTO	<u>-</u>		State: #1		
Invastigator(s):	<u>_,,,</u>	Section, Township, Re	ange: <u>Las Vivacues c</u>		
Landform (hillstope, tomade, etc.)	<del></del>	Local railof (concave,	convex, none): ∕°⊿∧∠'∙	ove.	Slcpa (%):3*
Subregion (LRR): ¿ & C.	Lat: 🕉	4. 14721075	Long: -//8 7663	044	Catuo: <b>1/2/2018</b>
Scil Map Jnit Name: Vrbno land - Compley , Fill Co	notes 0-8	% sloves . Comme	merded ANAC plane	ification:	34
Are climatic / hydrologic concisions on the sits typical fe-	This time of v	est? Yes W No	Of the evention in	ildomorko )	<i></i>
Ars Vegesation	s acificantly		"Novinel Circumstances		
Ara Vegetation <u>M</u> , Suil <u>N</u> or Hydrology <u>N</u>	naturally or		eeded, explain any ans:		
SUMMARY OF FINDINGS - Attach site ma					
ř	,			to, importan	
Hydrophytic Vegetellan Present? Yes Hydric Soll Present? Yes		is the Sample	d Area		
Wolfend Hydrology Present? Yes	No.	Within a Wetter	nd? Yes	Na_ <u>/</u>	<u></u>
Remarks:		<del>i</del>	<del></del>		<del></del>
Pet breated north at certified inden &	anyword in	n area dominis	d by Helmintho	thear earlie	idea but
eclared to wet area. Area within	Ø1241 ;	rowhom at the	sile		
·					
VEGETATION - Uso scientific names of pl			<u> </u>		
Trea Stratum (Fict size:	Absolute % Chyen	Domitiant Indicator Species 2 Stgt. s	; Dominance Test wo		—·—
1. 1/1			Number of Dominant That Are OBL, FACW	Species LockAC:	ė m
6			į.		. <u>e</u> (A)
3		·	Total Number of Dom Spedes Aeross All &		
4		· · · ·			(2)
Saction/Shrub Stratem (Plot size: /v )	—·-	= Total Cover	Percent of Dominant That Are OSL, FACW		<b>∂</b> (A/B)
1. <u>///</u>			Prevalence Indox w		
2			<u>Fotal % Cover of</u>		illipty by:
2		··	OBL species		mitora 207.
4			: FASW species	×27	<del></del>
δ			FAC species	40 x3=	120
Herh Stratum (Plo: size:		⇒ Total Cover	FACU species	<u>ራው</u> አፋ=	
1. Habouthalber Colinses	40	Y FAC	UFI. species	35 _ x5=_	175
2. Maketh leproson		T. FAGU	CdJann Totals;	(Λ)	_3 <u>75"</u> (8)
3. Bruns Smaders	<u>~</u>	N NZ	Provalence fons	y = Β/A σ	3. I
1. Aveni barbe to	10	Y N2	Hydrophytle Vogeta		
5. Hehanthes armys		N FOOV	Dominance Test		
6. Keines Criser			Provalence Inces	ris ≤2.0 <sup>1</sup>	
7			Morphological Ad	aptellons" (Prov	/ide supporting
B	. —			ks oron a seça	
Woody Ving Sitatum (Not size:)		= Total Covor	Problematic Hydr	op tydd ydgataf	ant (mxplain)
1			Indicators of nydric s	nil end wetend	Wielen nonena use
2			be present, unicas dis	alutbed er tildigk in edes keitalig	imaco.
			Hydrophytic		
% Bare Cround in Horb Stratum % Gov			Vegetation		J
Remarks:	er or plots Si		Present? Y	'es Na	ı
e section and t					
S Army Corps of Englineers	<del></del>		<del></del>		ort Version 2.2

apin nches), . Dv/2	, Matrix					N COMMINE	the absonce of		
	Color (:: pist)		Reg Color (mpist)	<u>gx Feature:</u> %	: [[Va0]	Loc²	Texture	Remarks	
1012	10 YE 3/3	95	1271 5/4	25	<u></u>	111	clay lower		
	10 10-13					<u></u>			
	·		10 42 5/2	2,5	$-^{\mathcal{P}}$	M			
						<u> </u>			
		<u>-</u>	•						
									_
		· ·	•					<del></del>	
en CeC	 oncentr <u>ation, D≃Dep</u> i	 Nation SM=1	 Rada cad Motely, C	SaCovered	nr Coate	d Sand Gr	rains. <sup>2</sup> Loca 5	on; PL=Pore Lining, M=Metrlx.	_
drie Sail	Indicators: (Appile	oble to all i	RRs, unless oth	anwise not	2d,)		Indicators fo	r Problematic Hydric Spils <sup>3</sup> :	
Histosol			Sendy Rec				1 cm Mus	≴ (A9) (LRR C)	
	pipedan (A2)		Stripped %				2 cm MU:	k (A10) (LRR B)	
	isEc (A3)			icky Minera	l (E3)		Reduced	Vertic (F18)	
	m Su'fide (MI)		Loamy Gle	eyed Matrix	(F2)		Rod Pam	nt Materia (1852)	
	d I,ayers (AS) (LRR (	0)		Matrix (F3)			Other (Ex	plaln in Romarka)	
	uck (A9) (LRR D)		Redox Dar	rk Sarface (	(F6)				
	d Bellow Dark Surface	s (A11)	Depiated (	Jaik Sutac	a (H7)				
	ark Surface (A12)		, Redox Dej	presalona (	F8)		<sup>3</sup>  indicators of	hydrophytic vegetation and	
	Aucky Mineral (\$1)		Vernal ⊇e	ols (SB)			wetland hyd	Irology must be present	
-	Heyed Malitz (84)						unicos cista	arbed or problematic.	
	Layer (if present):								
Турс:									
	_ttı						Bydele Soll P.	esent? Yos No	_
Depta (In: marks:	G::85)		<del></del>				117 3113 32		
C41.25 71	tions and slephe		/					•	
									_
									_
Sland Hy	drology Indicators:					··	·		
Sland Hy							<del>.                                      </del>	ıry Indicators (2 ox more require	d)
etland Hyd macy India	drology Indicators:		8a't Crus	st (3.11)		,	Wai	er Marks (B <b>1</b> ) (Riverine)	d)
tland Hy hazy India Skirtace	érology Indicators: catore (minimum of o			st (3.11)			Wall	er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)	d)
stland Hy many India Stiriace	drology Indicators: eators (aninimum of o Water (A1) stor Table (A2)		8a't Crus	st (3.11) usf (812)	s (8 <b>1</b> 3)		Wa: Sed D/fit	er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)	d)
stand Hy Mary India Surface High Wa Saturati	drology Indicators: eators (aninimum of o Water (A1) stor Table (A2)	ùe <u>recrited</u>	8a't Crus B'olic Cru Aquatic f Hydroger	st (3.11) ust (812) nvettebrata n Sulfide O	dor (O1)		Wa: Sedi Drff Dres	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10)	d)
etland Hy Mary India Surface High Wa Safurati Water M	drology Indicators: catore (minimum of o yvater (A1) ster Table (A2) on (A3) wirks (B1) (Nonriver)	ņe <u>reculted</u> Ins)	8a't Crus B'olic Cru Aquatic f Hydroger	st (3.11) ust (812) nvettebrata n Sulfide O	dor (O1)		Wa: Sedi Drff Dres	er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)	d)
etland Hym mary India Surface High Wa Salurati Water M Sedimos	drology Indicators: catore (minimum of o Yvater (A1) ster Taide (A2) on (A3) wirks (B1) (Nonriver) at Deposits (B2) (No	ne <u>neculred</u> Ine) nciverino)	8a't Crus B'olic Cru Aquatic f Hydroger	st (3 11) ust (812) nvettebrate n Sulfide O Rhizosphe	dor (C1) tes along		Wai Sed Drai Drai ots (C3) Dry-	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10)	 d)
Eland Hy Pary India Surface High Wa Saturati Water M Sedimes Drift Day	crology Indicators: catore (minimum of o Water (A1) stor Table (A2) on (A3) Marks (B1) (Nonriver at Deposits (B2) (Norrive posits (B3) (Norrive	ne <u>neculred</u> Ine) nciverino)	\$a't Crus B'otic Cru Aquatic ! Hydroge Oxidized Présence	st (3.11) ust (812) nvettebrate n Sulfide C Rhizosphe s of Reduce	dor (C1) tes along ed Iron (C4	Ð	Wai Sedi Drift Dres ots (C8) Dry- Crej	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Sesson Wats: Table (C2)	
Eland Hy Pary India Surface High Wa Saturati Water M Sedimea Drift Deg Surface	crology Indicators: eatore (minimum of o Water (A1) ster Table (A2) on (A3) Marks (B1) (Nonriver at Deposits (B2) (Norriver Seil Cracks (B6)	ne) nriverino)	\$a't Crus B'otic Cru Aquatic f Hydrogen Oxidized Prosence Recept in	st (311) ust (812) nvertabrata n Sulfide C Rhizosphe a of Reduca von Reducai	doc (C1) tes along ed Iron (Ca on in Tille	Ð	Was Sed Drfit Dras ots (C3) Dry- Cray 3) Sati	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Season Wate: Table (C2) rist on Visible on Aerist Images	
eland Hyr recy India Surface High Wa Salurath Water M Sedimes Drift Deg Surface Inuncati	crology Indicators: estore (minimum of o Water (A1) stor Table (A2) on (A3) minks (B4) (Nonriver) mt Deposits (B2) (No gosits (B3) (Nonriver) Seil Cracks (B6)	ne) nriverino)	\$alt Crus Blotic Cru Aquatic f Hydroge Oxidized Prosence Recent f Thin Muc	st (311) ust (812) nvertabrata n Sulfide C Rhizpsphe a of Reducti ok Surfecs I	dor (C1) tes along ed Iron (C4 on in Tille (C7)	Ð	Wai Sed Drift Drea ots (C3) Drea Crea 3) Satu Sita	er Varks (B1) (Riverine) imen; Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10) Season Wata: Table (C2) rish Burrowa (C8) arat'on Visible on Aer's! Images, thuy Agoberd (D0)	
etland Hy many India Surface High Wa Sailurath Water N Sedimos Drift Deg Surface Inuncath	erology Indicators: estore (minimum of o Water (A1) eter Table (A2) on (A3) Marks (B1) (Nonriver) or Deposits (B2) (No posits (B3) (Norriver) Soil Cracks (B6) Ion Visible on Aerial I Stalmed Leaves (S9)	ne) nriverino)	\$alt Crus Blotic Cru Aquatic f Hydroge Oxidized Prosence Recent f Thin Muc	st (311) ust (812) nvertabrata n Sulfide C Rhizosphe a of Reduca von Reducai	dor (C1) tes along ed Iron (C4 on in Tille (C7)	Ð	Wai Sed Drift Drea ots (C3) Drea Crea 3) Satu Sita	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Season Wate: Table (C2) rist on Visible on Aerist Images	
etland Hy many India Surface High Wa Salurati Water M Sedimos Drift Day Surface Inuncati Water-S	erology Indicators: eators (minimum of o Water (A1) eter Table (A2) on (A3) Marks (B1) (Nonriver at Deposits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial I Stalinec Leaves (S9) wations:	ns <u>reculted</u> Ins) nriverino) Jine) magery (87		st (311) ust (812) nvertebrete n Sulfide C Rhizosphe e of Reducti or Reducti ok Surfece I xplaint in Re	dor (C1) tes along ed Iron (Ca on in Tille (C7) emanks)	Ð	Wai Sed Drift Drea ots (C3) Drea Crea 3) Satu Sita	er Varks (B1) (Riverine) imen; Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10) Season Wata: Table (C2) rish Burrowa (C8) arat'on Visible on Aer's! Images, thuy Agoberd (D0)	
etland Hy many India Surface High Wa Saturati Water N Sedimos Drift Dey Surface Inuncati Water-S	erology Indicators: eators (minimum of o Water (A1) eter Table (A2) on (A3) Marks (B1) (Nonriver at Deposits (B3) (Nonriver Soil Cracks (B6) lon Visible on Aerial I stallned Leaves (S9) watfons: lar Present?	ns reculted Ins) nrivering) tine) magery (87	Salt Crus Biotic Cru Aquatic F Hydroge Oxidized Frésence Recept II Thin Muc Other (E:	st (311) ust (312) nvertebrete n Sulfide O Rhizosphe e of Reduce or Reduci ok Surfece I xplain in Re	dor (C1) tes along ed Iron (C/ on in Tille (C7) emarks)	Ð	Wai Sed Drift Drea ots (C3) Drea Crea 3) Satu Sita	er Varks (B1) (Riverine) imen; Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10) Season Wata: Table (C2) rish Burrowa (C8) arat'on Visible on Aer's! Images, thuy Agoberd (D0)	
mary India Surface High Wa Salurath Water M Sedimos Drift Deg Surface Inuncati Water-Sedi Observisee Water	erology Indicators: eators (minimum of o vvater (A1) eter Table (A2) on (A3) farks (B1) (Nonriver) at Deposits (B3) (Norriver) Seil Cracks (D6) ion Visible on Aerial I stalined Leaves (B9) vvations: lar Present?  Present?	ins) Ins) Iniversity Insgery (87	Salt Crus Biotic Cru Aquatic II Aquatic II Hydroge Oxidized Présence Recent II Thin Muc Other (Es	st (311) ust (312) nvertebrate n Sulfide Co Rhizosphe s of Reduce vor Reduce k Surfece I xplain in Re nones):	dor (C1) tes along ed Iron (Cr on in Tille (C7) emarks)	f) d Solia (Ce	Wai Sed Drift Dres ots (C8) Dry- Croj 3) Sait FA0	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Sesson Water Table (C2) rish Burrows (C8) aration Visible on Aerial Imagery tiow Agotherd (D0) >Noutrol Test (D5)	· (CS
etland Hydricy India Surface High Water M Sadimed Drift Deg Surface Inuncati Water-Said Obser Inface Water Table Stor Table Store Table	crology Indicators: catore (minimum of a Water (A1) ster Table (A2) on (A3) Marks (B1) (Nonriver ant Deposits (B2) (Norriver Soil Cracks (B6) Ion Visible on Aerial I Stalmed Leaves (S9) votions: Ier Present? Present? Y	ns reculted Ins) nrivering) tine) magery (87	Salt Crus Biotic Cru Aquatic II Aquatic II Hydroge Oxidized Présence Recent II Thin Muc Other (Es	st (311) ust (312) nvertebrete n Sulfide O Rhizosphe e of Reduce or Reduci ok Surfece I xplain in Re	dor (C1) tes along ed Iron (Cr on in Tille (C7) emarks)	f) d Solia (Ce	Wai Sed Drift Dres ots (C8) Dry- Croj 3) Sait FA0	er Varks (B1) (Riverine) imen; Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterna (B10) Season Wata: Table (C2) rish Burrowa (C8) arat'on Visible on Aer's! Images, thuy Agoberd (D0)	· (CS
etland Hy many India Surface High Wa Saturati Water N Sedimos Drift Deg Surface Inuncati Water-Seld Obser risce Water Table turation P	crology Indicators: eatore (minimum of o Water (A1) eter Table (A2) on (A3) Marks (B1) (Nonriver ant Deposits (B2) (Noririver Soil Cracks (B6) Ion Visible on Aerial I Stalmer Leaves (S9) Watfonst Iar Present? Present? Y	ins) nriverino) tine) magery (B7	Salt Crus Biotic Cru Aquatic F Hydroger Oxidized Frosence Recept II Other (5: Depth (i	st (311) ust (312) nvertebrete n Sulfide O Rhizosphe e of Reduce for Reduce tor Reduce to Surfece I xplain in Re nones):	dor (O1) tes along ed fron (O/ on in Tille (O7) amarks)	f) d Soits (C6	Wai Sed Drift Dres  ots (C8) Dry- Croj  8) Sait Sital FAC	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Sesson Water Table (C2) rish Burrows (C8) aration Visible on Aerial Imagery tiow Agotherd (D0) >Noutrol Test (D5)	(CS
etland Hy many India Surface High Wa Saturati Water N Sedimos Drift Deg Surface Inuncati Water-Seld Obser risce Water Table turation P	crology Indicators: catore (minimum of a Water (A1) ster Table (A2) on (A3) Marks (B1) (Nonriver ant Deposits (B2) (Norriver Soil Cracks (B6) Ion Visible on Aerial I Stalmed Leaves (S9) votions: Ier Present? Present? Y	ins) nriverino) tine) magery (B7	Salt Crus Biotic Cru Aquatic F Hydroger Oxidized Frosence Recept II Other (5: Depth (i	st (311) ust (312) nvertebrete n Sulfide O Rhizosphe e of Reduce for Reduce tor Reduce tor Reduce to Surfece I xplain in Re nones):	dor (O1) tes along ed fron (O/ on in Tille (O7) amarks)	f) d Soits (C6	Wai Sed Drift Dres  ots (C8) Dry- Croj  8) Sait Sital FAC	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Sesson Water Table (C2) rish Burrows (C8) aration Visible on Aerial Imagery tiow Agotherd (D0) >Noutrol Test (D5)	· (CS
etland Hymony India Surface High Wa Salurati Water M Sedimos Drift Deg Surface Inuncati Water-Sild Obser rigoe Water ther Tairle turation P	crology Indicators: eatore (minimum of o Water (A1) eter Table (A2) on (A3) Marks (B1) (Nonriver ant Deposits (B2) (Noririver Soil Cracks (B6) Ion Visible on Aerial I Stalmer Leaves (S9) Watfonst Iar Present? Present? Y	ins) nriverino) tine) magery (B7	Salt Crus Biotic Cru Aquatic F Hydroger Oxidized Frosence Recept II Other (5: Depth (i	st (311) ust (312) nvertebrete n Sulfide O Rhizosphe e of Reduce for Reduce tor Reduce tor Reduce to Surfece I xplain in Re nones):	dor (O1) tes along ed fron (O/ on in Tille (O7) amarks)	f) d Soits (C6	Wai Sed Drift Dres  ots (C8) Dry- Croj  8) Sait Sital FAC	er Varks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B5) (Riverine) nage Patterns (B10) Sesson Water Table (C2) rish Burrows (C8) aration Visible on Aerial Imagery tiow Agotherd (D0) >Noutrol Test (D5)	(CS

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: ONG MONY SENSOR / CANDOS	61Qcounty: _ <i>A60V</i>	ea Hous	_ Sompling Date: _10/31/16
ApplicantiOwner; DAKNOW'S SEMUL LIVING			Samp Ing Foint: 775
Investigator(s): 7. BANAS	Section Township, Re	ango: Las Virgores Co	Ini Land Grown
Lancform (hillstope, terrace, etc.): hellstope.	Local reflet (concave.	convex, none): _ Cen@	AtAL Slope (%): 5
Suaregion (LRR): LRRC	Let: 34, 14714482	Long: -118, 7662	587 Datum: AAS 83
Soi! Map Un't Name: Urbanland - Cropky, 611 200	plex, 0-8% slopes, comme	NWI classifi	cation: M/A
Are dimate; hydrologic conditions on the site typical for		(lf rb, explain in i	
Are VegelationY, SoilY, or HydrologyY			presant? Yes No
Are Vegetation 💛 , Goil 📈 , or Hydrology 📈		eeded, explain any onow	
SUMMARY OF FINDINGS - Attach site ma			·
,	No.		
	No is the swinping		,
Welfand Hydrology Present? Yas	MILLION PARIA	nd? Yes <u>Y</u>	No
Remarks:	the of the hours from and	San at atom of a	1 10/100 10 10
Pol located in subsided area son			
hope and deproy under Com	road 8treck. When t sup	Naments 160 sour	ce. Area covered as
VEGETATION - Use scientific names of pl	ents		··
	Accolute Dominant Indicator	I Daniel in the same	
Tree Stratum (Plot size:)	<u> % Cover "Species? Status</u>	Dominance Test wor. Number of Dominant 8	
1. No	· •	That Are OBL, FACW,	
	— — <u> </u>	Total Number of Comit	· · · · · · · · · · · · · · · · · ·
3		Species Across All Str.	ž .
4		Percent of Dominant S	Cedes , ,
Septing/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC: <b>.66</b> (A/5)
1. N/A	<del>.</del>	Prevalence Index wa	rksheet;
		Total % Cover o8	
3		OB_specias	x1 =
4	· · · <u> </u>	FACW species	x2 =
5			x3 =
Hero <u>Stratum</u> (Plotatze:	+ Taxel Gover	1	×4=
1 Helmotto- there schooldes	. 40 V M		×5 =
2. Typha tota demograsis	25 Y 082	Column Totals:	(A)(B)
3. Hilanthux annus	5 N FALU	Pravalence Index	c = 3/A =
4. Sertsola topica	5 N PAGE	Hydrophytic Vegetati	on Indicators;
5. Incus bottyees		_ <b>1√</b> Duminance Test is	>50%
6. Makella kegrana		Prevalence Indax	
1. Browne dianders	- R.S N NL	Morphological Ada	εptations <sup>1</sup> (Provide supporting is as on a separate anget)
8. Aven bostola-			phytic Vegetation (Explain)
Woody Vine Stratum (Plotisiza:)	= Total Gover		to the sufferment (material)
. 1		<sup>1</sup> Indicators of hydric so	ll and wegand hydrology must
2		bo present, unless dist	urbod or problemetic
	= Total Cover	Hydraphytic	
% Baro Ground in Herb Stretum 0 % Co.	or of Sipsa Crist	Vegetation Present2 Ve	. V N-
Remarks:			" NC
% Bare Ground in -erb Stratum & Stra	.] landscaping from a fin	ent duckprent	that has
P I demonstrated aver	•		
hound, organization			
<del></del>	·		<u></u> .
US Army Corps of Englineers			Arid West - Version 2(0

	cription; (Describe	•						•
epth.	<u>Přetrix</u> Colo <u>r (molst)</u>	%	Red Color (moist)	ox Features W	Tena <sup>1</sup>	Lord	Texauro	Remarks
k L	10 YE 3/1	95	10 40 5/6					- Musts
•	10 44 7/2		10 TR 5/6				6144 1957	
18	10 1/2	95		<u> 25 </u>	<u> </u>	_M_		
			10 y 5/2	F 8.	<u>D</u>			
								,,
	· .							
	•							Landon Olabor Union Makhida
00: U=U: Ma Sali	oncentration, D∀De Indicators: {Applic	pletor, <u>FM=</u>	Reducéd Matrix, ( LPRs, tratess of b	SS≃Covered envise Meta	<u>  ar Godio</u>	а вапа е		Location; St.=Pora Uning M=Metrix ors for Problematic Hydric Soils*:
Histosol Histosol			Sandy Re		idij			: Musk (AS) (LRR C)
	pipadon (A2)			/admix (S6)			_	: Muck (A10) (ERR ■)
	latic (A3)			retwi(doy Joky Mineral	(F1)		_	looed Vesic (F16)
	en Sulfide (A4)		_ ,	eyod Matrix			/	Parent Material (TF2)
Stratfloo	d Layers (AS) (LRR	C)		Matrix (F3)			<u>#</u> Oth	er (Explain in Remarks)
	uck (A9) (LRR D)		_	rk Surface (!	•			
	d Below Cark Surfac	pp (A11)		Dark Surface			31	
	ark Surface (A12) Jucky Minoral (31)		Redex Do	pressions (F als 649)	. 91			ors of hydrophytic vegetation and no hydrology must be present,
	Gleyed Matrix (S4)			ala (# 0,				s disturbed or problematics
	Layer (if present):						i	
Depth (In- narks:	ches):	dies. Giv	en drught con	udehows,	Anteni	bic com	dilans no	oll Present? Yes Vo Wo
Depth (In- narks:		dies, Giv	en drught con appeare displ	ulchows, i	Ansens	bic cons bicent	dilans no	- how present and
Depth (In- narks: \$14400 \$24	um + level be Is at This lo	dies, Giv extron c	en downt com	rulehows, c	Ansen m od	bic com history	dilans no	- how present and
Depth (In- narks: \$346000 P \$24	um + level be Is at This lo	entron c	en drught com	rdehous, i	men m od	bsc cana h-ceops	dilans no	- how present and
Depth (Indicates)  Anthropy  BROLO  ROLO  Roll	ums of lessel be le at the le	entran c	ppense displ	need (m	men m od	bec came becard	dikans n Corpradi	- how present and
Depth (In- narks: \$\ship \cdot	imm + lemal be  14 at This lo  16Y  drology ladicators	entran c	ppense displ	(201)	Amen m od	bic com	dikans n Corpradi	- hugo present and
Depth (Innarks:  ###################################	come the level be  It of The lo  GY  carology ladicators  cators (minimum of	entran c	ppeare display  i check all that ap  Sait Crue	(201)	Anseru m od	bic com history	dikans n Corpradi	- huge present and
Depth (Interest Control of Contro	GY  de at the log of t	entran c	ppeare displ i check all that ap — Sait Crus — Biotic Cr	(PP)	m od 	bic com present	Corposts  Corposts  Second	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (Innants:  Arthrop  ROLO  land Hy  lary India  Surface  Pligh Wa  Saturath  Weter M	GY  drology Indicators caters (minimum of Weter (A1) alter Tablo (A2) on (A3) Marka (B1) (Nocrive	cettor o	ppeare display  check all that ap  Sat Crus  Biotic Cru  Aquatic I  Hydroge	PY)	s (B13)	h-ceord	Corpradi	connery Indicators (2 or more required) Water Warks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Oral rage Patterns (B10)
Depth (In- marks: Arthro- IROLO land Hy- nary India Surface Pligh Wa Saturath Weter M Sodimo:	GY  drology Indicators caters (minimum of Weter (A1) alter Tablo (A2) on (A3) Marka (B1) (Nocrive at Doposits (B2) (No	inne)	r check all that ap Sat Crus Biotic Crus Aquatic I Hydroge	PY)	s (B13) for (C1) res along	Living Ro	Corpradi	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drait Deposits (B3) (Riverine) Oral rage Patterns (B10) Dry-Season Water Table (C2)
Depth (Invariants:  FOROLO  ROLO  RO	GY drology Indicators esters (minimum of Weter (A1) alter Table (A2) on (A3) larka (B1) (Nocrive at Doposits (B2) (No	inne)	t check all that ap Sait Crus — Sait Crus — Siotic Cru — Aquatic I — Hydroge — Oxidized — Presence	Piy)	s (B13) for (C1) resistong	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Incleators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Draft Deposits (B3) (Riverine) Draftage Patterns (B10) Dry-Season Water Table (C2) Craylish Burnews (C6)
Pepth (Invariants:  PROLO Ind Hy Bary India Surface Pligh Water M Sodince Drift Day Surface	GY drology Indicators esters (minimum of Weter (A1) alter Tablo (A2) on (A3) larka (B1) (Nocrive at Doposits (B2) (No	cne raquired nine) phriverine)	check all that ap,    check all that ap,   Sait Crus     Biotic Crus     Aquatic I     Hydroge     Oxidized     Presence     Rocent	PY) st (B11) ust (B12) Invertebrates n Suffice Cd I Shizospher e of Reducer	s (B13) for (C1) res along d Iron (Con in Tille	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Inclinators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Draft Deposits (B3) (Riverine) Draft Deposits (B3) (Riverine) Draft Deposits (B3) (Riverine) Cralmage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buriows (C6) Saturation Visible on Acrig. Imagery (I
Depth (Invariants:  FOROLO  ROLO  Jand Hy  Bartindo  Surface  Might Water M  Sodimo:  Drift Depth  Surface  Internal	GY  drology Indicators sators (minimum of Water (A1) aler Tablo (A2) on (A3) Marka (B1) (Nocrive at Doposits (B3) (Nortive Soil Cracks (B6)) on Visible on Aerial	cne raquired nine) phriverine)	i check all that apply Sait Crus Sai	ply)	s (B13) for (C1) residiong differi (Con in Tille C7)	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Incidators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Oral rage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buridws (C6) Saturation Visible on Adrig. Imagery (I
Depth (Invariants:  FOROLO  Iand Hymany India Surface Pight Water: M Sodimo: Drift Day Surface Inundati Water: S	GY  drology Indicators  cators (minimum of Mater (A1)  alor Tablo (A2)  on (A3)  Marka (B1) (Nocrive at Doposits (B3) (Nontrive Soil Cracks (B6)  lon Visible on Aerial Statued Leaves (B6)	cne raquired nine) phriverine)	i check all that apply Sait Crus Sai	PY) st (B11) ust (B12) Invertebrates n Suffice Cd I Shizospher e of Reducer	s (B13) for (C1) residiong differi (Con in Tille C7)	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Inclinators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Draft Deposits (B3) (Riverine) Draft Deposits (B3) (Riverine) Draft Deposits (B3) (Riverine) Cralmage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buriows (C6) Saturation Visible on Acrig. Imagery (I
Depth (Invariants:  FOROLO  IROLO  Iand Hy Isoy India Surface High Water M Sodimo: Drift Day Surface Intendet  Water S d Obser	GY  drology Indicators  cators (minimum of the Mater (A1)  ater Table (A2)  on (A3)  Marka (B1) (Nocrive at Doposits (B2) (Nocrive (B3))  Soil Cracks (B6)  lon Visible on Aerial (Balred Leaves (B9))  vations:	inne) phriverine) phriverine) phriverine)	i; check all that application of the control of the	phy)	s (B13) for (C1) residiong differi (Con in Tille C7)	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Incidators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Oral rage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buridws (C6) Saturation Visible on Adrig. Imagery (I
Depth (In- narks:  Arthorization  ROLO  Itand Hy- nary India  Surface High Water M Sodimo: Drift De; Surface Intindati Water S d Obser- Book Water  Book Water	GY  drology Indicators saters (minimum of the Mater (A1) alter Tablo (A2) on (A3) Marka (B1) (Nonrive at Doposits (B3) (Nonrive Soil Cracks (B6) lon Visible on Aerial Statued Leaves (B6) vations: der Present?	inne) phriverine) phriverine) phriverine) phriverine)	Check all that application of the control of the co	p?/)et (B11) ust (B12) invertebrigter n Suffice Cd i Shizospher e of Reducer ron Reduction ck Surface (for surface) xplain in Re-	s (B13) for (C1) residiong differi (Con in Tille C7)	Living Ro	Corphado  Corphado  Ser  oots (C3)	concery Incidators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Oral rage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buridws (C6) Saturation Visible on Adrig. Imagery (I
Depth (In- narks:  PROLO  Itand Hy nary India Surface Prigh Wa Saturatio Water M Sedimo: Drift Dep Surface Inundati Water S d Observace Incompanies Water S der Table	GY  drology Indicators esters (minimum of Weter (A1) alter Tablo (A2) on (A3) larka (B1) (Nocrive at Doposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) lon Visible on Aerial statued Leaves (B9) reations: for Present?	inne) phriverine) erline) limagery (Bi	Check all that application of the check all that applications of the check all the check all the check all that applications of the check all that applications of the check all that applications of the check all that applications o	PY)	s (B13) for (C1) residiong differi (Con in Tille C7)	Living Ro	Second	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drahage Patterns (B10) Dry-Season Water Table (C2) Crayfish Buriews (C6) Saturation Visible on Aeria, Imagery (I Shellow Aquiterd (D3) FAC-Neutral Test (D5)
Depth (In- narks:  Professor  Professor  Bround Hy naty India Surface Pright Wa Saturation Vester M Sodimo: Drift Dep Surface Internation P Introsocial	GY  drology Indicators caters (minimum of the CA1) aler Tablo (A2) on (A3) Marka (B4) (Nonrive at Doposits (B2) (Nonrive Soil Cracks (B6) lon Visible on Aerial Statued Leaves (B9) reations: der Present? Present?	inne) charagulfad	Check all that application of the control of the co	P(Y)	s (B13) for (C1) res along d Iren (C con in Talle C7) manks)	Living Ro	Confracto  Confracto  Seconds  (C3)  C6)  C1  Cland Hydrol	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dreinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burnews (C6) Saturation Visible on Aerial Imagery (C8) Shellow Aquifierd (D3) FAC-Neutral Test (D5)
Depth (In- narks:  Arthorous P	GY  drology Indicators esters (minimum of Weter (A1) alter Tablo (A2) on (A3) larka (B1) (Nocrive at Doposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) lon Visible on Aerial statued Leaves (B9) reations: for Present?	inne) charagulfad	Check all that application of the control of the co	P(Y)	s (B13) for (C1) res along d Iren (C con in Talle C7) manks)	Living Ro	Confracto  Confracto  Seconds  (C3)  C6)  C1  Cland Hydrol	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dreinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burnews (C6) Saturation Visible on Aerial Imagery (C8) Shellow Aquifierd (D3) FAC-Neutral Test (D5)
Depth (In- narks:  Profile 32 f  OROLO  Itand Hy- nary India Surface High Water M Sodimo: Drift Day Surface Intendati Water S d Observation Profile Control Intendation Pr	GY  drology Indicators caters (minimum of the Mathematical Mathematica	inne) phriverine) phriverine) phriverine) primagery (Bir	Check all that application of the control of the co	ply)	s (B13) stor (C1) residong dilica (C con in Tille C7) marks)	Living Ro	Confracto  Confracto  Seconds  (C3)  C6)  C1  Cland Hydrol	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dreinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burnews (C6) Saturation Visible on Aerial Imagery (C8) Shellow Aquifierd (D3) FAC-Neutral Test (D5)
Depth (Innants:  PROLO  Iland Hymany India  Surface Pligh Water M Sodimo: Drift De; Surface Internation P Indias car or the Ro	GY  drology Indicators caters (minimum of Weter (A1) alter Tablo (A2) on (A3) larka (B1) (Nonrive at Doposits (B3) (Nonrive Soil Cracks (B6) lon Visible on Aerial statued Leaves (B8) vations: ler Present? Present? Present? Insurance (ABA) (ABA) ABA (AMARA)  A CALL (AMARA)	inne) charagultad nine) charagultad nine) charagery (Bir des	Check all that application of the content of the co	phy)	s (B13) dor (C1) res along d Iron (Con in Tille C7) marks)	Living Ro	Constructs  Constructs  Seconds  Constructs  A  cots (C3)  c6)  tland Hydrol  i, if available:	concery Incidators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Dry-Season Water Table (C2) Crayfish Buriows (C8) Saturation Visible on Adrig. Imagery (I Shallow Aquited (D3) FAC-Neutral Test (D5)
PROLO tland Hymnary India Surface High Water M Sodimo: Drift Dey Surface Inundati Water 3 d Obser Table Uration Plucios caporibe Romarks:	GY  drology Indicators caters (minimum of Weter (A1) alter Tablo (A2) on (A3) larka (B1) (Nocrive at Doposits (B3) (Notrive Soil Cracks (B6) lon Visible on Aerial statued Leaves (B6) vations: ler Present? Present? Present? Present? Insurance (Samarance) A Call Marinal (Samarance) A Call Marinal (Samarance)  A Call Marinal (Samarance)  A Call Marinal (Samarance)  A Call Marinal (Samarance)  A Call Marinal (Samarance)  A Call Marinal (Samarance)  A Call Marinal (Samarance)	inne) charagultad  fine) charagultad  fine) charagery (Bir fes	Cant Vam Cu	pPy)	s (B13) for (C1) res along d Iron (Con in Tille C7) marks)	Living Ro	Constructs  Constructs  Seconds  Application of the constructs (C3)	connery Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dreinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burnews (C6) Saturation Visible on Aerial Imagery (C8) Shellow Aquifierd (D3) FAC-Neutral Test (D5)

## Biological Resources Assessment Report



# Biological Resources Assessment Report Oakmont of Agoura Hills City of Agoura Hills, Los Angeles County, California

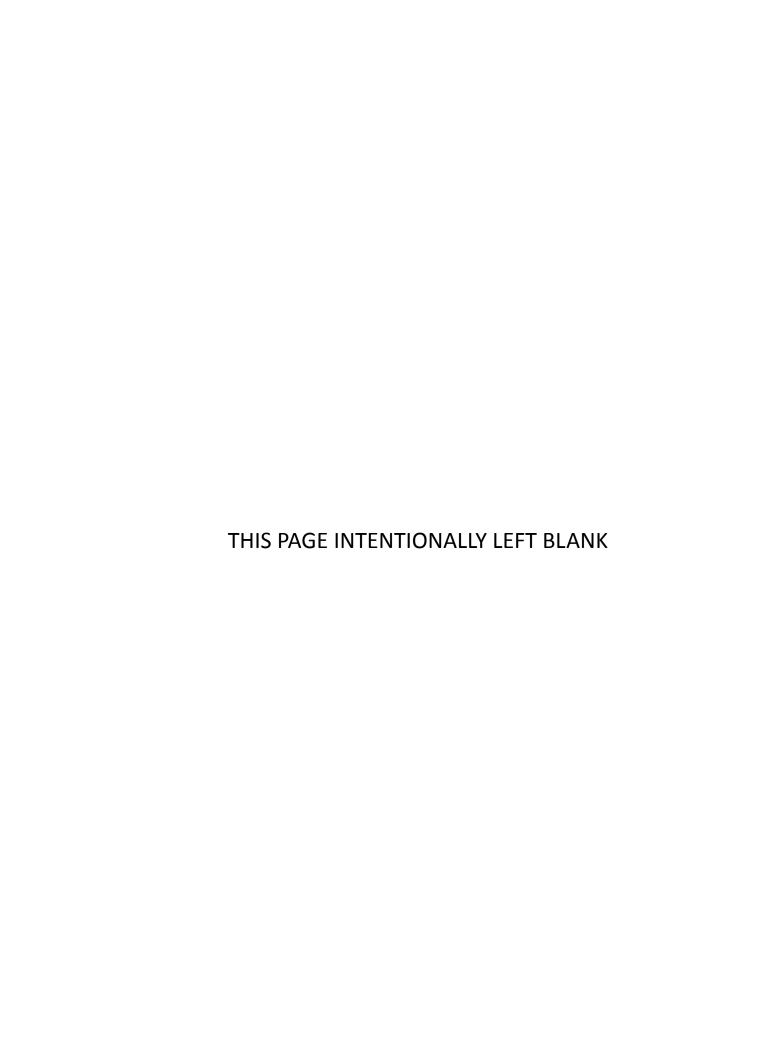
Prepared for: Oakmont Senior Living 8779 Soothing Court Corona, CA 92883

Contact: Wayne Sant

Prepared by: FirstCarbon Solutions 11755 Wilshire Blvd., Suite 1660 Los Angeles, CA 90025 888.826.5814

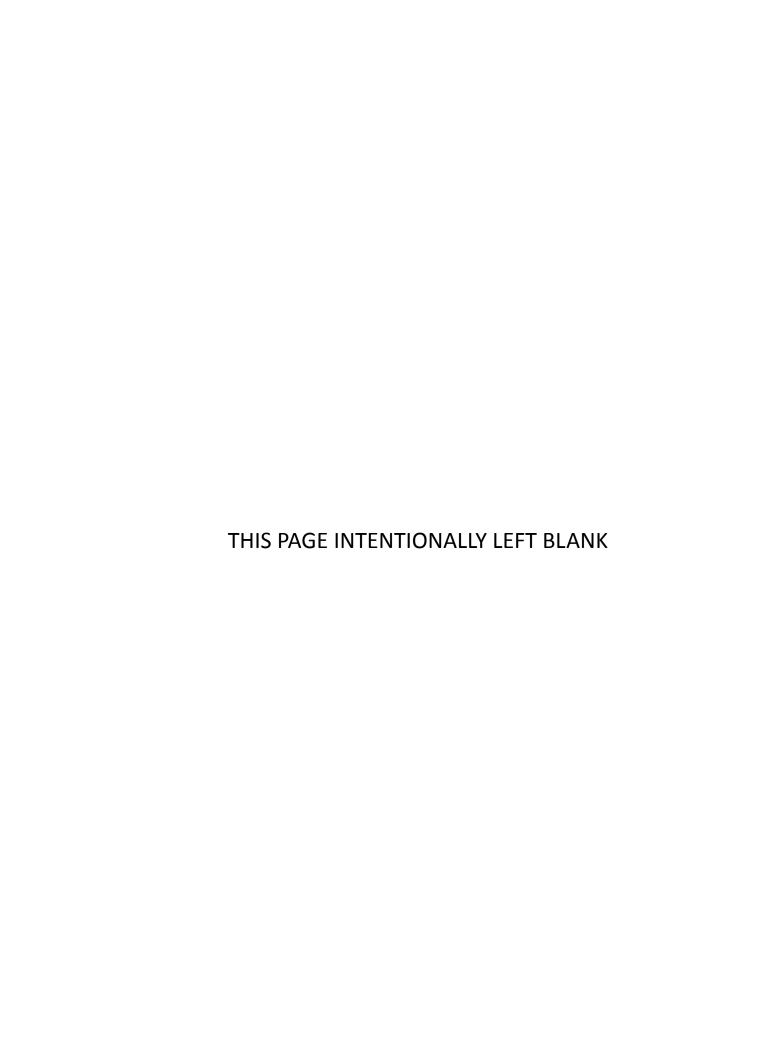
Contact: Jason Brandman, Project Director

Date: June 10, 2016



#### **Table of Contents**

Acronyms and Abbreviations	V
Section 1: Introduction and Background	1
1.1 - Project Location	1
1.2 - Project Description	1
Section 2: Methods	9
2.1 - Literature Search	9
2.2 - Field Survey	10
Section 3: Regulatory Considerations	19
3.1 - Federal Endangered Species Act	19
3.2 - Migratory Bird Treaty Act	19
3.3 - Bald and Golden Eagle Protection Act	19
3.4 - Executive Order 13112—Invasive Species	20
3.5 - Clean Water Act Section 404	20
3.6 - Clean Water Act Section 401	21
3.7 - California Fish and Game Code	21
3.8 - California Porter-Cologne Water Quality Control Act	22
Section 4: Environmental Setting	23
4.1 - Vegetation Communities and Land Cover Types	23
4.2 - Potential Jurisdictional Waters of the U.S.	23
4.3 - Special-status Species	23
4.3.1 - Special-status Plants	24
4.3.2 - Special-status Wildlife	24
Section 5: Potential Constraints to Future Site Development and Recommendations	25
5.1 - Potential Constraints to Development from the Presence (or Possible Presence) of	
Special-status Species	25
5.1.1 - Special-status Wildlife	25
Section 6: References	27
Appendix A: CNDDB and CNPS Inventory Results	
Appendix B: Site Photographs	
List of Tables	
Table 1: Special-status Plant Species Potentially Occurring within the Project Site	13
Table 2: Special-status Wildlife Species Potentially Occurring within the Project Site	14
List of Exhibits	
Exhibit 1: Regional Location Map	3
Exhibit 2: Local Vicinity Map, Aerial Base	5
Exhibit 3: Site Plan	
Exhibit 4: CNDDB Occurrence of Special-status Species	11



#### **ACRONYMS AND ABBREVIATIONS**

BGEPA Bald and Golden Eagle Protection Act

CDFG California Department of Fish and Game

CDFW California Department of Fish and Wildlife

CEQA California Environmental Quality Act
CESA California Endangered Species Act

CNDDB California Natural Diversity Database

CNPS California Native Plant Society

CWA Clean Water Act
EO Executive Order

EPA United States Environmental Protection Agency

FESA Federal Endangered Species Act

FGC Fish and Game Code

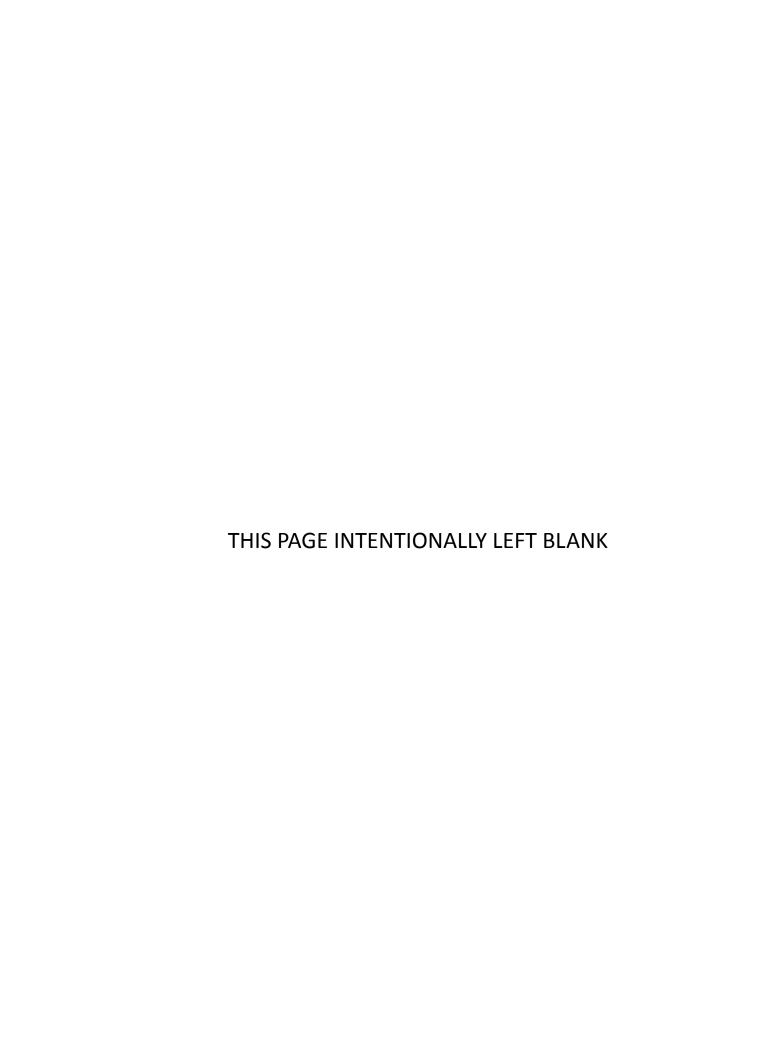
MBTA Migratory Bird Treaty Act

RWQCB Regional Water Quality Control Board
USACE United States Army Corps of Engineers

USC United States Code

USDA United States Department of Agriculture
USFWS United States Fish and Wildlife Service

USGS United States Geological Survey



#### **SECTION 1: INTRODUCTION AND BACKGROUND**

Oakmont of Agoura Hills submitted an application to the City of Agoura Hills to develop an assisted living and memory care community at 29353 Canwood Street in Agoura Hills.

The State of California Department of Social Services will license the two-story structure as a Residential Care Facility for the Elderly. To facilitate the environmentally sustainable and regulatory-compliant construction of the project, FCS proposes to prepare technical studies analyzing the potential impacts of the proposed assisted-living facility on air quality, noise, and biological resources on-site.

This survey and report addresses potential impacts to biological resources by the proposed development of the site. Potential impacts to special-status plant or wildlife species known from the general area are specifically discussed.

#### 1.1 - Project Location

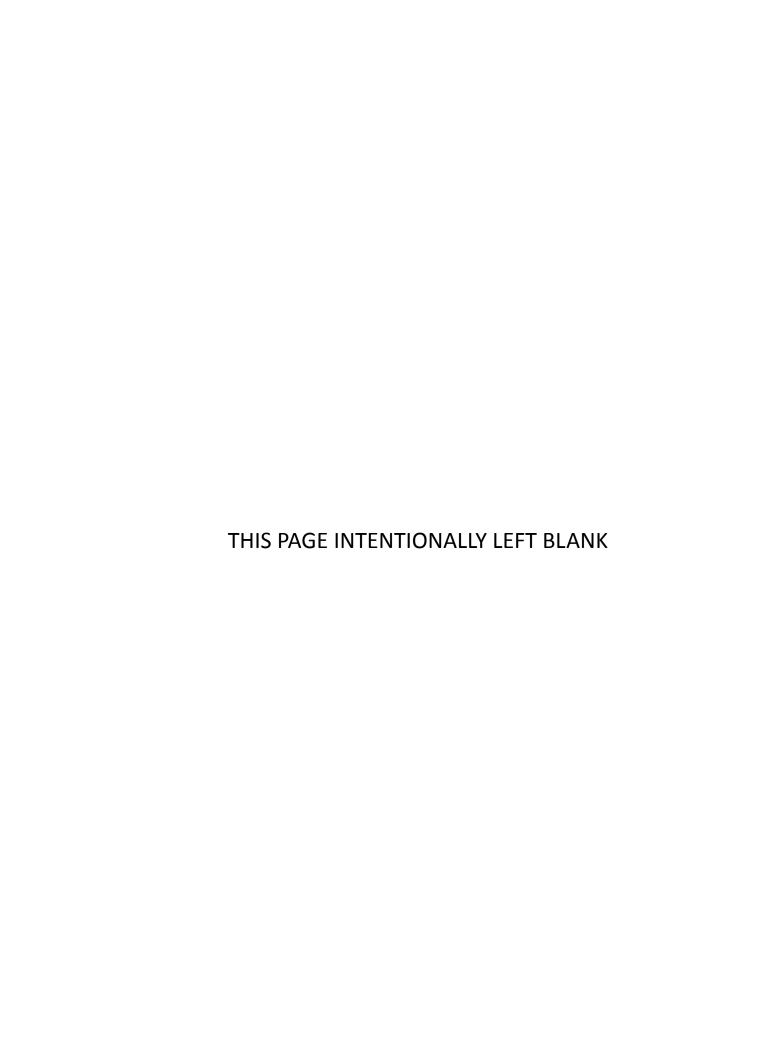
The project site consists of 5.7 acres located within the city limits of Agoura Hills, California. The project site is bordered by an existing single-family residential development to the north, by commercial office land use to the west, and by a vacant, undeveloped parcel to the east. U.S. Highway 101 is immediately south of Canwood Street with commercial and light industrial uses located beyond. The project site is located in an unincorporated section of the City of Agoura Hills U.S. Geological Survey (USGS) Thousand Oaks 7.5-minute Quadrangle.

The site is bounded as follows:

- North—single-family residential development
- West—commercial office land use
- South—Canwood Street and U.S. Highway 101
- East—undeveloped parcel

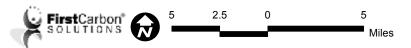
#### 1.2 - Project Description

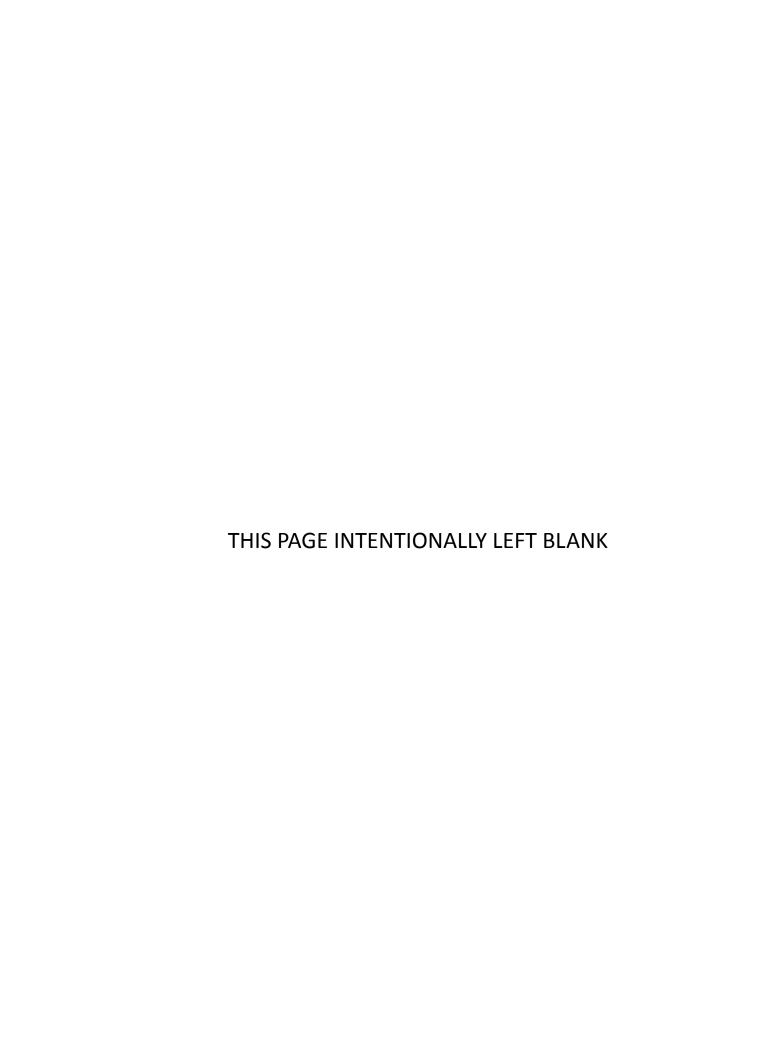
Oakmont of Agoura Hills submitted an application to the City of Agoura Hills to develop an assisted living and memory care community (project) on a 5.7-acre site at the southwest corner of Haven Avenue and Church Street (Exhibit 1, Exhibit 2, and Exhibit 3). The State of California Department of Social Services will license the two-story structure as a Residential Care Facility for the Elderly.

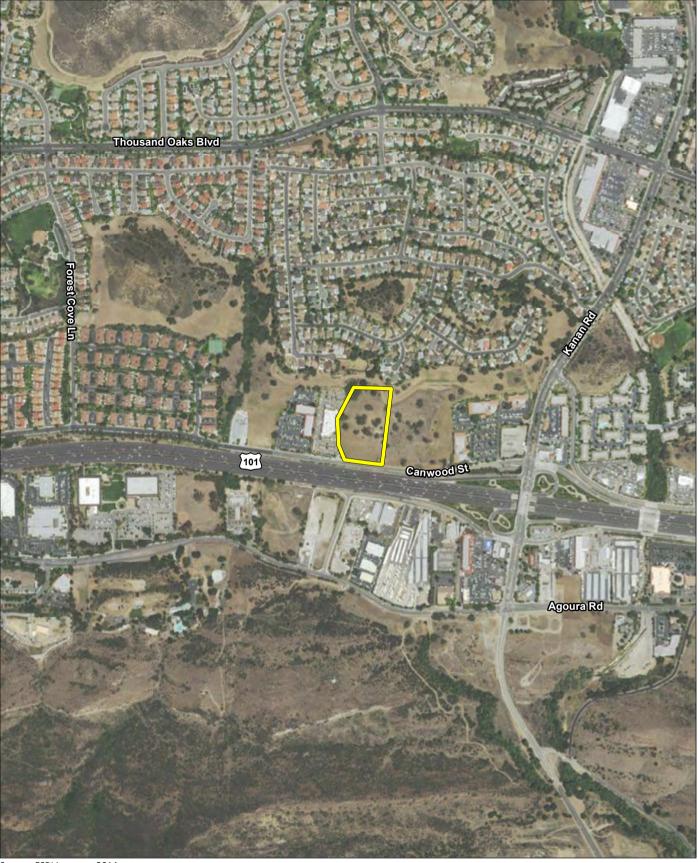




Source: Census 2000 Data, The CaSIL, FCS GIS 2013.



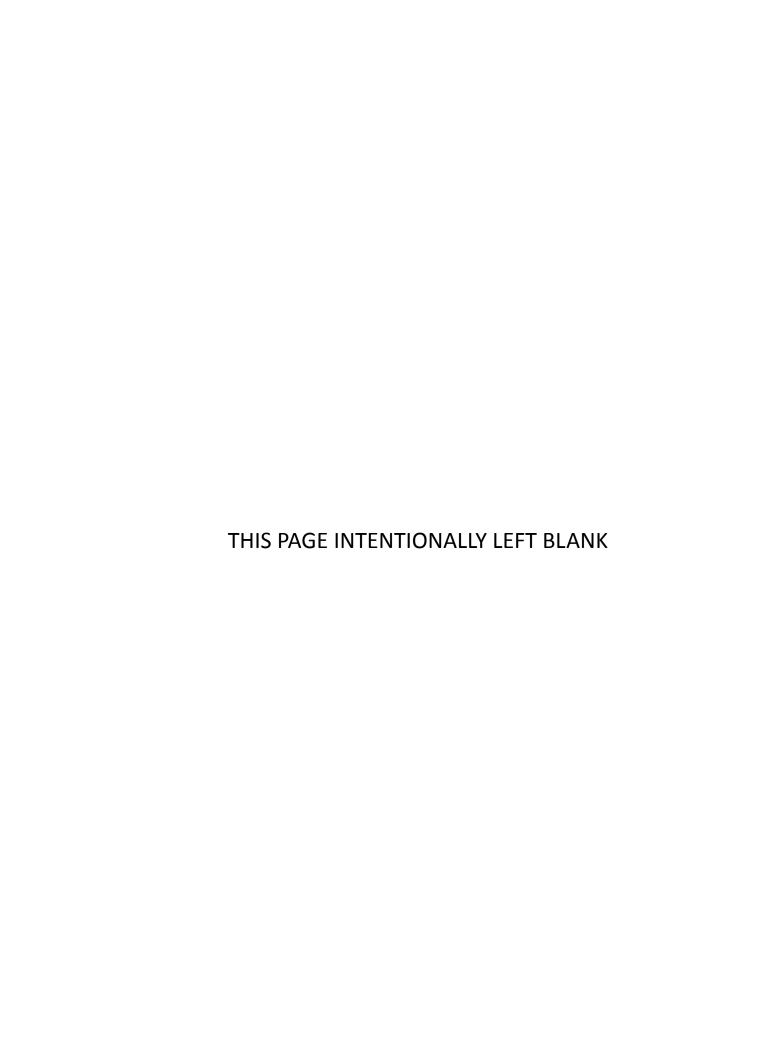


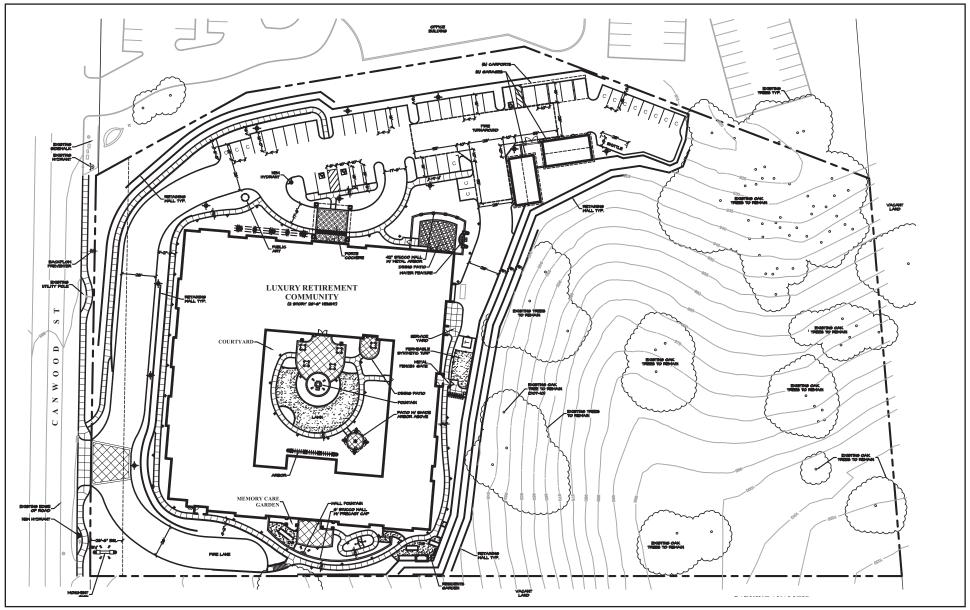


Source: ESRI Imagery, 2014



Exhibit 2 Local Vicinity Map Aerial Base

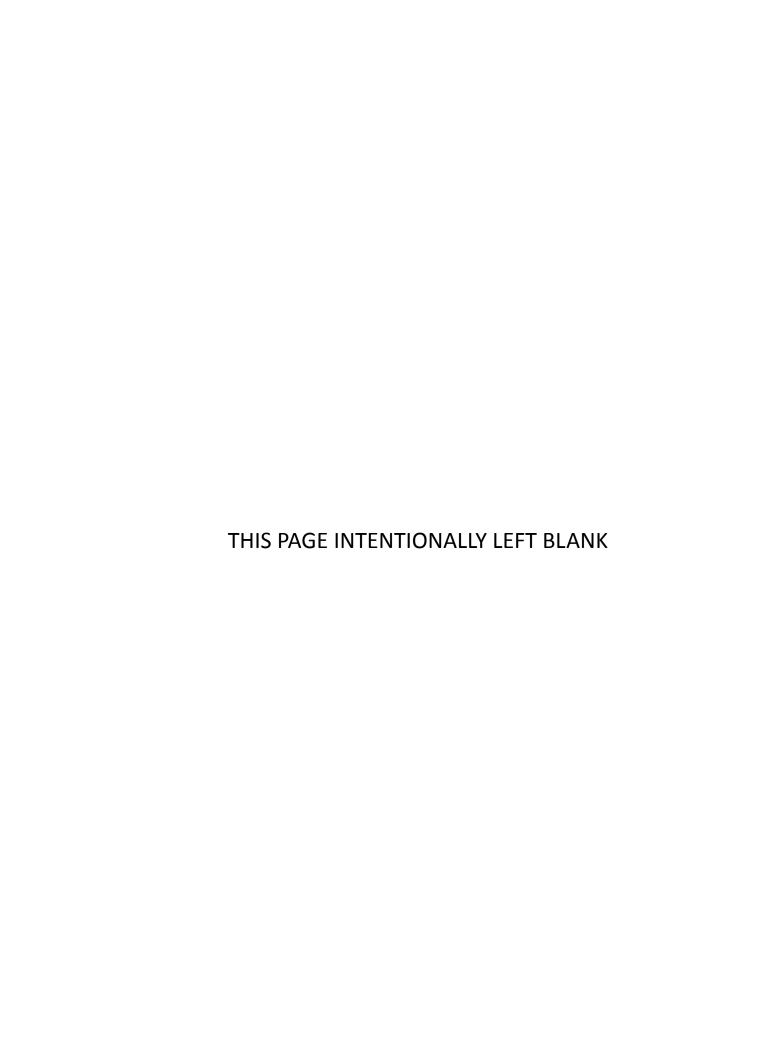




Source: Landesign Group, 2016



#### Exhibit 3 Site Plan



#### **SECTION 2: METHODS**

#### 2.1 - Literature Search

Special-status species are commonly characterized as species that are at potential risk or actual risk to their persistence in a given area or across their native habitat (locally, regionally, or nationally) and are identified by a state and/or federal resource agency as such. These agencies include governmental agencies such as California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) or private organizations such as the California Native Plant Society (CNPS). The degree to which a species is at risk of extinction is the limiting factor on a species status designation. Risk factors to a species' or population's persistence include habitat loss, increased mortality factors (take, electrocution, roadway hazards, etc.), invasive species, and environmental toxins.

In the context of environmental review, special-status species are defined by the following codes:

- Species that are listed, proposed, or candidates for listing under the Federal Endangered Species Act (FESA) (50 CFR 17.11—listed; 61 FR 7591);
- Species that are listed or proposed for listing under the California Endangered Species Act (CESA) (Fish and Game Code [FCG] 1992 Section 2050, et seq.; 14 California Code of Regulations [CCR] Section 670.1, et seq.);
- Species that are designated as Species of Special Concern by CDFW;
- Species that are designated as Fully Protected by CDFW (FCG Section 3511, Section 4700, Section 5050, Section 5515); and
- Species that meet the definition of rare or endangered under California Environmental Quality Act (CEQA) (14 CCR Section 15380).

Special-status species also include:

- Species designated as sensitive by city, county, or other regional planning documents; and
- Species given a status of 1A, 1B, or 2 by CNPS.

The designated sensitive species listed by CNPS have no direct legal protection, but require an analysis of the significance of potential impacts under CEQA guidelines.

Special-status plant and wildlife species were determined from a nine-USGS quadrangle search of the California Natural Diversity Database (CNDDB; CDFW 2016) and CNPS electronic inventory (CNPS 2016). The results of the database searches are included in Appendix A. Each special-status species identified within 1 mile of the project site during the database search has been addressed individually in Table 1 and

Table 2. Some additional species identified during the nine-USGS quadrangle search are included in Table 1 and

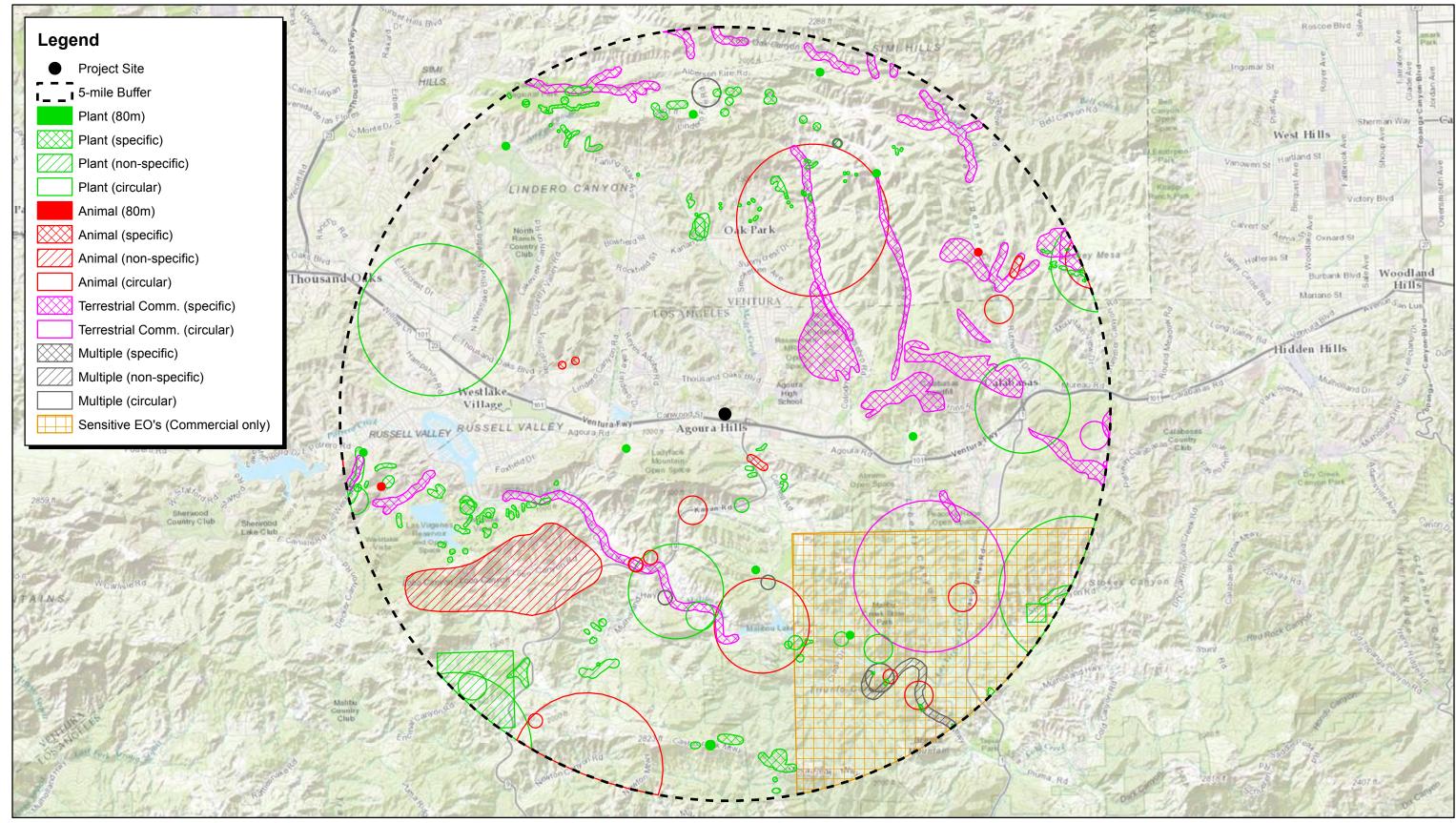
Table 2. The potential for each special-status species to occur within the project site was assessed by known occurrences of the species from the nine-USGS quadrangle search, suitability of habitat within the project site, and professional expertise.

When the USFWS lists a species as threatened or endangered under FESA, areas of habitat considered essential to its conservation and survival may be designated as critical habitat. These areas may require special consideration and/or protection because of their ecological importance. Potential critical habitat designations within the general vicinity of the project site were checked using the USFWS Critical Habitat Portal (USFWS 2016).

#### 2.2 - Field Survey

The site was surveyed on March 7, 2016 by Adam Schroeder and Brian Zitt of ECORP Consulting, Inc. Meandering transects were walked throughout the project site (Exhibit 3) to document vegetation, physiographic features, vertebrate, and invertebrate species. Photographs were taken throughout the site and of representative features.

Starting weather conditions at 1100 included a temperature of 56 degrees Fahrenheit (°F), winds 8 to 12 miles per hour from the east, and 30 percent cloud coverage. Ending weather conditions at 1245 included a temperature of 58°F, winds 8 to 12 miles per hour from the east, and 30 percent cloud coverage.



Source: CNDDB, June, 2016

Exhibit 4
CNDDB Occurrence of Special-status Species

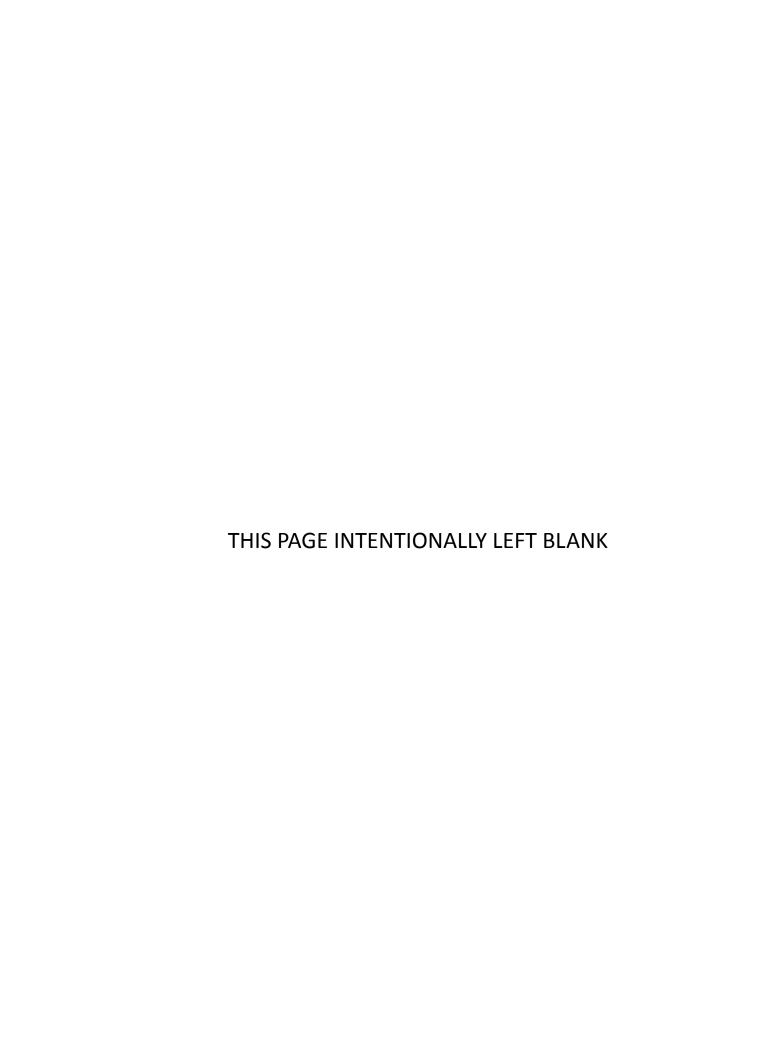


Table 1: Special-status Plant Species Potentially Occurring within the Project Site

Scientific Name		Status			Potential to Occur and	Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>	CNPS <sup>3</sup>	Habitat Description⁴	Rationale	Impact Analysis
Dudleya cymosa ssp. agourensis Agoura Hills dudleya	FT	_	1B.2	Dicot perennial herb native to California. Found in chaparral and cismontane woodland at elevations from 660 to 1640 feet above mean sea level. Bloom period is from May to June.	Unlikely to Occur: No suitable habitat is present within the project site. There is one recorded occurrence within 1 mile of the project site.	No
Orcuttia californica California Orcutt grass	FE	SE	1B.1	Monocot annual grass native to California. Found in valley grassland, freshwater wetlands, and wetland-riparian vernal pools at elevations from 50 to 2,170 feet above mean sea level. Bloom period is from April to August.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Pentachaeta lyonii Lyon's pentachaeta	FE	SE	18.1	Dicot annual herb native to California. Found in chaparral, valley and foothill grassland, and coastal scrub at elevations from 100 to 2,070 feet above mean sea level. Bloom period is from March to August.	Unlikely to Occur: No suitable habitat is present due to lack of volcanic soils on-site. There is one recorded occurrence within 1 mile of the project site.	No
Navarretia ojaiensis Ojai navarretia	_	_	1B.1	Dicot annual herb that is native to California. Found in Chaparral, coastal scrub, valley and foothill grassland.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Calochortus clavatus var. gracilis Slender mariposa-lily	_	_	1B.2	Monocot perennial herb (bulb) that is native to California and is endemic (limited) to California. Found in Chaparral, coastal scrub, valley and foothill grassland.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No

**Table 1: Special-status Plant Species Potentially Occurring within the Project Site** 

Scientific Name	Status					Potential to Occur and	Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>	CNPS <sup>3</sup>	Habitat Description <sup>4</sup>		Rationale	Impact Analysis
Code Designations							
<sup>1</sup> Federal Status: 2015 USFWS	Listing			<sup>2</sup> State Status: 2015 CDFW Listing		<sup>3</sup> CNPS: 2015 CNPS Listing	
FE = Listed as endangered under the Endan FT = Listed as threatened under the Endan FC = Candidate for listing (threatened or e Endangered Species Act FD = Delisted in accordance with the Enda — = Not federally listed	ngered Specie Indangered) u	s Act nder S es Act S	Species Ac ST = Listed as Species Ac SSC = Species SFP = Listed a	threatened under the California Endangered et s of Special Concern as identified by CDFW as fully protected under FGC identified as rare by CDFW	1B = Plant species California and List 2 = Plant spec California, but	es that presumed extinct in Cal that are rare, threatened, or elsewhere. ies that are rare, threatened, more common elsewhere. Months in parentheses are un	endangered in or endangered in

Table 2: Special-status Wildlife Species Potentially Occurring within the Project Site

Scientific Name	Status				Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>	Habitat Description <sup>3</sup>	Potential to Occur and Rationale	Impact Analysis
Reptiles					
Anniella pulchra pulchra Silvery legless lizard	_	SSC	Found in sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. Prefers soils with high moisture content.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No

#### Table 2 (cont.): Special-status Wildlife Species Potentially Occurring within the Project Site

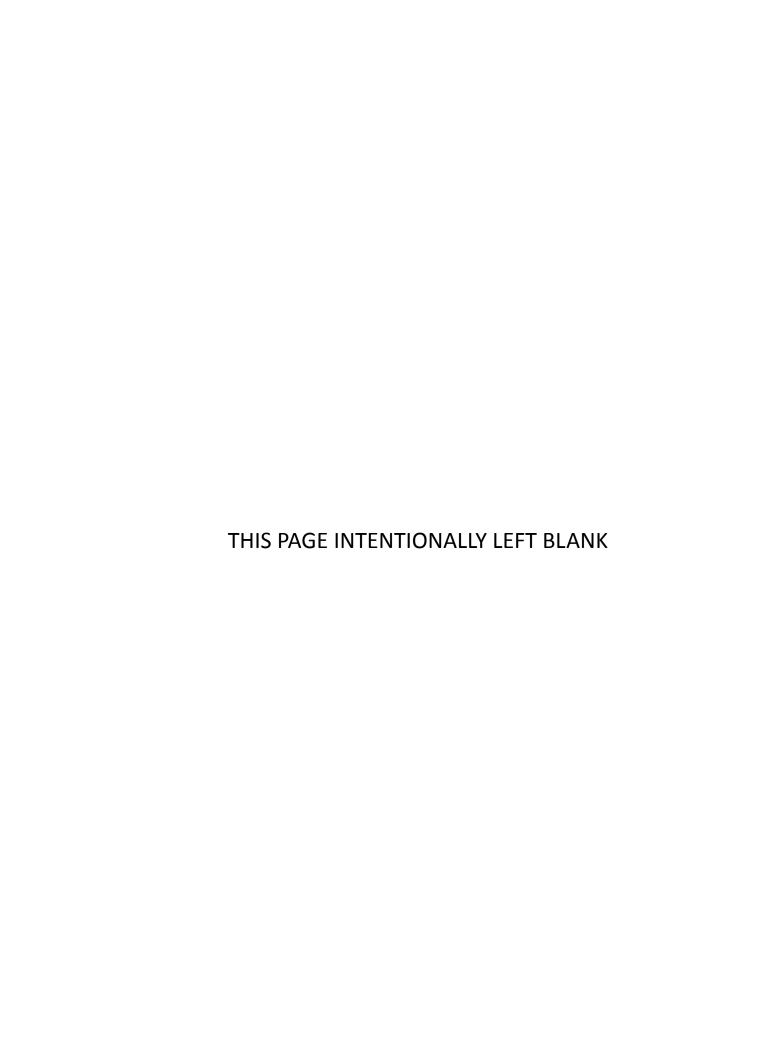
Scientific Name	Sta	tus			Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>	Habitat Description <sup>3</sup>	Potential to Occur and Rationale	Impact Analysis
Emys marmorata Western pond turtle	_	_	Prefers ponds, marshes, streams, and irrigation ditches usually with aquatic vegetation.	Unlikely to Occur: No suitable habitat is present within the project site. There is one recorded occurrence within 1 mile of the project site.	No
Phrynosoma blainvillii Coast horned lizard	_	SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Birds					
Aquila chrysaetos Golden eagle	FP	_	Prefers rolling foothills and mountain areas with cliff-walled canyons for nesting habitat.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Athene cunicularia Burrowing owl	МВТА	SSC	Found in open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. A subterranean nester, dependent upon burrowing mammals, most notably the California ground squirrel.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No

#### Table 2 (cont.): Special-status Wildlife Species Potentially Occurring within the Project Site

Scientific Name	Sta	tus			Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>	Habitat Description <sup>3</sup>	Potential to Occur and Rationale	Impact Analysis
Empidonax traillii extimus Southwestern willow flycatcher	FE	SE	Prefers riparian and wetland thickets consisting of willow trees and other riparian veg from sea level to 8,500 feet above mean sea level. Migrating willow flycatchers will use a variety of riparian habitats including those dominated by non-native vegetation.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Polioptila californica californica California gnatcatcher	FT	SSC	An obligate, permanent resident of coastal sage scrub below 2500 ft. in southern California. Requires low, coastal sage scrub in arid washes, on mesas, and slopes. Not all areas classified as coastal sage scrub are occupied.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Riparia riparia Bank swallow	-	ST	Prefers vertical banks/cliffs with fine textured soils near streams, rivers, lakes, and ocean.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Vireo bellii pusillus Least Bell's vireo	FE	SE	Prefers low riparian in the vicinity of water or in dry river bottoms below 2,000 ft above mean sea level.	Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No

#### Table 2 (cont.): Special-status Wildlife Species Potentially Occurring within the Project Site

Scientific Name	Sta	tus				Included in
Common Name	USFWS <sup>1</sup>	CDFW <sup>2</sup>		Habitat Description <sup>3</sup>	Potential to Occur and Rationale	Impact Analysis
Mammals						
Antrozous pallidus Pallid bat	_	SSC		eserts, grasslands, shrublands, ds, and forests with rocky roosting.	Unlikely to Occur: Although rock outcrops are present within the project site. No recorded occurrences are within 1 mile of the project site and these areas are not of sufficient habitat to support this species	No
Neotoma lepida intermedia San Diego desert woodrat	_	SSC	Prefers moderate to dense canopies in native coastal scrub communities with rocky outcrops and rocky cliffs and slopes.		Unlikely to Occur: No suitable habitat is present within the project site. No recorded occurrences are within 1 mile of the project site.	No
Code Designations		1				
<sup>1</sup> Federal Status: 2016 USFW	/S Listing			<sup>2</sup> State	Status: 2016 CDFW Listing	
ESU = Evolutionary Significant Unit is a distinctive popular FE = Listed as endangered under the FESA. FT = Listed as threatened under the FESA. FC = Candidate for listing (threatened or endangered) un FD = Delisted in accordance with the FESA. FPD = Federally Proposed to be Delisted. MBTA= Protected by the Migratory Bird Treaty Act — = Not federally listed				SE = Listed as endangered under the ST = Listed as threatened under the SSC = Species of Special Concern as in CFP = Listed as fully protected under CR = Rare in California. FGC= Protected by FGC 3503.5  — = Not state listed	CESA. dentified by the CDFW.	



#### **SECTION 3: REGULATORY CONSIDERATIONS**

This section provides an overview of the laws and regulations that influence biological resources. Many of these regulations will not apply to the project if sensitive biological resources are avoided.

As of January 1, 2013, the agency formerly known as the California Department of Fish and Game (CDFG) changed its name to the California Department of Fish and Wildlife (CDFW). Some publications written prior to the change refer to the CDFG; therefore, this document refers to CDFG and the CDFW, as appropriate, referring to the same state agency.

#### 3.1 - Federal Endangered Species Act

The USFWS has jurisdiction over species listed as threatened or endangered under the FESA. Section 9 of FESA protects listed species from "take," which is broadly defined as actions taken to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." FESA protects threatened and endangered plants and animals and their critical habitat. Candidate species are those proposed for listing; these species are usually treated by resource agencies as if they were actually listed during the environmental review process. Procedures for addressing impacts to federally listed species follow two principal pathways, both of which require consultation with the USFWS, which administers the FESA for all terrestrial species. The first pathway, Section 10(a) incidental take permit, applies to situations where a non-federal government entity must resolve potential adverse impacts to species protected under the FESA. The second pathway, Section 7 consultation, applies to projects directly undertaken by a federal agency or private projects requiring a federal permit or approval.

#### 3.2 - Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) implements international treaties between the U.S. and other nations devised to protect migratory birds, their parts, eggs, and nests from activities such as hunting, pursuing, capturing, killing, selling, and shipping, unless expressly authorized in the regulations or by permit. The State of California has incorporated the protection of birds of prey in Sections 3800, 3513, and 3503.5 of the Fish and Game Code (FGC).

All raptors and their nests are protected from take or disturbance under the MBTA (16 United States Code [USC], Section 703, et seq.) and California statute (FGC Section 3503.5). The golden eagle (*Aquila chrysaetos*) and bald eagle (*Haliaeetus leucocephalus*) are also afforded additional protection under the Eagle Protection Act, amended in 1973 (16 USC, Section 669, et seq.).

#### 3.3 - Bald and Golden Eagle Protection Act

With few exceptions, this act (16 USC 668–668d) prohibits take of bald eagles and golden eagles. Unlike the MBTA, which defines "take" to mean only direct killing or taking of birds or their body parts, eggs, and nests, the Bald and Golden Eagle Protection Act (BGEPA) defines take in a manner similar to FESA as including "pursuing, shooting, shooting at, poisoning, wounding, killing, capturing,

trapping, collecting, molesting, and disturbing," with "disturb" further defined (50 CFR 22.3) as "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior." Therefore, the requirements for guarding against impacts to eagles generally are far more stringent than those required by the MBTA alone.

#### 3.4 - Executive Order 13112—Invasive Species

Executive Order (EO) 13112 directs all federal agencies to refrain from authorizing, funding, or carrying out actions or projects that may spread invasive species. The order further directs federal agencies to prevent the introduction of invasive species, control and monitor existing invasive species populations, restore native species to invaded ecosystems, research and develop prevention and control methods for invasive species, and promote public education on invasive species. As part of the proposed action, the USFWS and United States Army Corps of Engineers (USACE) would issue permits, and therefore would be responsible for ensuring that the proposed action complies with EO 13112 and does not contribute to the spread of invasive species.

#### 3.5 - Clean Water Act Section 404

The USACE and the United States Environmental Protection Agency (EPA) regulate the discharge of dredged or fill material into waters of the U.S., including wetlands, under Section 404 of the Clean Water Act (CWA). Waters of the U.S. include wetlands, lakes, and rivers, streams, and their tributaries. Wetlands that fall under the jurisdiction of the USACE (referred to as jurisdictional wetlands) are defined as areas "inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Areas not considered jurisdictional waters include, for example, non-tidal drainage and irrigation ditches excavated on dry land; artificially irrigated or created bodies such as small ponds, lakes or swimming pools; and water-filled depressions (33 CFR 328.3; 40 CFR 230.3).

Project proponents must obtain a permit from USACE for all discharges of fill material into waters of the U.S., including jurisdictional wetlands, before proceeding with a proposed action. If wetlands are jurisdictional and could be filled as part of the project, USACE may issue either an individual permit or a general permit. Individual permits are prepared on a project-specific basis for projects that are expected to have adverse effects on the aquatic environment. General permits are pre-authorized permits issued to cover similar activities that are expected to cause only minimal individual and cumulative adverse environmental effects.

A Section 404 permit may not be required if the project avoids the discharge of any fill material into waters of the U.S., including wetlands. If the project cannot be designed to avoid the discharge of fill or excavating in waters of the U.S., including wetlands, a Section 404 permit must be obtained.

#### 3.6 - Clean Water Act Section 401

The CWA requires any applicant for a federal license or permit to conduct any activity that may result in a discharge of a pollutant into waters of the U.S. to obtain a certification that the discharge will comply with the applicable effluent limitations and water quality standards. The appropriate Regional Water Quality Control Board (RWQCB) regulates Section 401 requirements.

#### 3.7 - California Fish and Game Code

Under the CESA, the CDFW has the responsibility for maintaining a list of endangered and threatened species (FGC Section 2070). Sections 2050 through 2098 of the FGC outline the protection provided to California's rare, endangered, and threatened species. Section 2080 of the FGC prohibits the taking of plants and animals listed under the CESA. Section 2081 established an incidental take permit program for state-listed species. CDFW maintains a list of "candidate species," which it formally notices as being under review for addition to the list of endangered or threatened species.

In addition, the Native Plant Protection Act of 1977 (FGC Section 1900, et seq.) prohibits the taking, possessing, or sale within the State of any plants with a state designation of rare, threatened, or endangered (as defined by CDFW). An exception to this prohibition in the Native Plant Protection Act allows landowners, under specified circumstances, to take listed plant species, provided that the owners first notify CDFW and give that state agency at least 10 days to come and retrieve (and presumably replant) the plants before they are plowed under or otherwise destroyed. (FGC Section 1913 exempts from "take" prohibition "the removal of endangered or rare native plants from a canal, lateral ditch, building site, or road, or other right of way.") Project impacts to these species are not considered significant unless the species are known to have a high potential to occur within the area of disturbance associated with construction of the proposed project.

CDFW also maintains lists of "Species of Special Concern" that serve as species "watch lists." The CDFW has identified many Species of Special Concern. Species with this status have limited distribution or the extent of their habitats has been reduced substantially, such that their populations may be threatened. Thus, their populations are monitored, and they may receive special attention during environmental review. While they do not have statutory protection, they may be considered rare under CEQA and thereby warrant specific protection measures.

Sensitive species that would qualify for listing but are not currently listed are afforded protection under CEQA. CEQA Guidelines Section 15065 (Mandatory Findings of Significance) requires that a substantial reduction in numbers of a rare or endangered species be considered a significant effect. CEQA Guidelines Section 15380 (Rare or Endangered Species) provides for assessment of unlisted species as rare or endangered under CEQA if the species can be shown to meet the criteria for listing. Unlisted plant species on the CNPS's Lists 1A, 1B, and 2 would typically be considered under CEQA.

Sections 3500 to 5500 of the FGC outline protection for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are fully protected by these sections may not be taken or

possessed at any time. The CDFW cannot issue permits or licenses that authorize the take of any fully protected species, except under certain circumstances such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of livestock.

Under Section 3503.5 of the FGC, it is unlawful to take, possess, or destroy any birds in the orders of *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto. To comply with the requirements of CESA, an agency reviewing a proposed project within its jurisdiction must determine whether any state-listed endangered or threatened species may be present in the project study area and determine whether the proposed project will have a potentially significant impact on such species. In addition, CDFW encourages informal consultation on any proposed project that may impact a candidate species.

Project-related impacts to species on the CESA endangered or threatened list would be considered significant. State-listed species are fully protected under the mandates of the CESA. "Take" of protected species incidental to otherwise lawful management activities may be authorized under FGC Section 206.591. Authorization from CDFW would be in the form of an Incidental Take Permit.

#### 3.8 - California Porter-Cologne Water Quality Control Act

The RWQCB has regulatory authority over wetlands and waterways under both the CWA and the State of California's Porter-Cologne Water Quality Control Act (California Water Code, Division 7). Under the CWA, the RWQCB has regulatory authority over actions in waters of the U.S., through the issuance of water quality certifications under Section 401 of the CWA in conjunction with permits issued by the USACE under Section 404 of the CWA. When the RWQCB issues Section 401 certifications, it simultaneously issues general Waste Discharge Requirements for the project under the Porter-Cologne Water Quality Control Act. Activities in areas that are outside of the jurisdiction of the USACE (e.g., isolated wetlands, vernal pools, seasonal streams, intermittent streams, channels that lack a nexus to navigable waters, or stream banks above the ordinary high water mark) are regulated by the RWQCB under the authority of the Porter-Cologne Water Quality Control Act. Activities that lie outside of USACE jurisdiction may require the issuance of either individual or general waste discharge requirements.

#### **SECTION 4: ENVIRONMENTAL SETTING**

#### 4.1 - Vegetation Communities and Land Cover Types

A search of the USFWS Critical Habitat Portal revealed that the project site does not contain mapped critical habitat for any federally listed species (USFWS 2016).

The site is a highly disturbed vacant lot consisting mostly of disturbed nonnative grassland. The site is located on a hillside adjacent to Canwood Street near U.S. Highway 101. One drainage feature was observed at the west end of the site running from north to south. A few large rocky outcroppings were also observed at the site. Vegetative cover is dominated by ruderal vegetation consisting of mustards and grasses and is relatively dense with an overall cover estimate of 70 to 80 percent. Arroyo willow trees (*Salix lasiolepis*) are present in low densities near the northwest corner of the drainage on-site. Black willow trees (*Salix nigra*) are also present in low densities on the hillside. An old housing foundation with the remnants of a structure consisting mostly of brick is also located at the site.

#### 4.2 - Potential Jurisdictional Waters of the U.S.

The project site was visually assessed for the presence or absence of waters of the U.S. or State; however, no formal jurisdictional delineation of wetlands or other waters of the U.S. was conducted. One potential jurisdictional drainage feature was observed at the west end of the project site and may be connected to potential waters of the U.S. offsite. Although willows occur in this area, it is not considered a contiguous riparian habitat system.

#### 4.3 - Special-status Species

Special-status plant and wildlife species were determined as described in Section 3. Each special-status species identified within 1 mile of the project site during the database search has been addressed individually in Table 1 and

Table 2 of this report. Assessment of the potential for each special-status species to occur within the project site was based on known occurrences of the species from the nine-USGS quadrangle search (CNDDB; CDFW 2016), suitability of habitat within the project site, and professional expertise; thus, some additional species outside of the initial 1 mile radius identified during the search are included in Table 1 and

Table 2 as well. The project site is highly disturbed and is unlikely to support a majority of the special-status species discussed in Table 1 and

Table 2. Habitat removal during construction activities has the potential to impact nesting birds protected by the MBTA and at least one bat species.

#### 4.3.1 - Special-status Plants

No sensitive plant species were observed during the survey. Based on a California Natural Diversity Database (CNDDB) records search, several special-status plant species are historically known to occur within Agoura Hills and the general vicinity of the site. These include Agoura Hills dudleya (*Dudleya cymosa* ssp. *agourensis*), California Orcutt grass (*Orcuttia californica*), and Lyon's pentachaeta (*Pentachaeta lyonii*). Based on a lack of natural habitat and the survey results, suitable habitat to support Agoura Hills dudleya, California Orcutt grass, and Lyon's pentachaeta does not appear to be present. No additional focused surveys are recommended for these species.

#### 4.3.2 - Special-status Wildlife

No sensitive wildlife species were observed during the survey. Based on a CNDDB records search, several special-status wildlife species are historically known to occur within Agoura Hills and the general vicinity of the site. These include coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), western pond turtle (*Emys marmorata*), golden eagle (*Aquila chrysaetos*), bank swallow (*Hirundo rustica*), burrowing owl (*Athene cunicularia*), and pallid bat (*Antrozous pallidus*). Based on a lack of natural habitat and the survey results, suitable habitat to support the above-referenced sensitive species does not appear to be present.

#### **Nesting Raptors and Migratory Birds**

No active raptor or migratory songbird nest sites were observed on the property. The site is partially bounded by a city road, a major U.S. highway, and by residential and commercial developments.

## SECTION 5: POTENTIAL CONSTRAINTS TO FUTURE SITE DEVELOPMENT AND RECOMMENDATIONS

Complete avoidance of special-status plant and animal species and the potential habitats that may support them is the ecologically preferred method for preservation of these resources. However, to meet project goals, avoidance is not always possible. Therefore, to reduce the potential for direct or indirect impacts to natural resources, minimization and compensation measures should be employed. The following discussion looks at the potential constraints and offers recommendations on avoidance, minimization, and compensation measures, all of which are in compliance with the various laws that regulate natural resources and land use. This information is offered to help the applicant design a development that meets both financial and ecological objectives to the extent possible.

## 5.1 - Potential Constraints to Development from the Presence (or Possible Presence) of Special-status Species

As noted in the discussion above, the project site is unlikely to support any special-status species. Survey results indicate that these species are not expected to occur; no further mitigation is recommend. However, the site has the potential to support nesting birds and raptors protected under the MBTA and BGEPA.

### 5.1.1 - Special-status Wildlife

The discussions below detail the extent of suitable habitat within the project site, potential impacts to these species from the development of the proposed project, and recommended measures to avoid, minimize, and mitigate for project-related impacts.

#### **Nesting Raptors and other Birds**

Suitable habitat for raptors and other birds protected by the MBTA occurs within and adjacent to the project site. Most native, breeding birds are protected under Section 3503 of the FGC, and raptors specifically are protected under Section 3503.5 of the FGC. Additionally, both Section 3513 of the FGC and the federal MBTA prohibit the killing, possession, or trading of migratory birds. Section 3800 of the FGC prohibits the taking of nongame birds and fully protected species.

Most raptors nest in mature, large coniferous or deciduous trees and use twigs and branches as nesting material. Smaller raptors may nest in cavities in anthropogenic structures and trees. The nesting period for raptors generally occurs between February 15 and August 31.

Potential impacts could occur to resident and migratory species during project construction, which would render the project site temporarily unsuitable for birds because of the noise, vibrations, and increased activity levels associated with construction. These activities could potentially subject birds to risk of death or injury, and they are likely to avoid using the area until such construction activities have dissipated or ceased. Relocation, in turn, could cause hunger or stress among individual birds by displacing them into adjacent territories belonging to other individuals.

FirstCarbon Solutions 25

Construction activities that occur during the nesting season (generally March 1 to August 31) would disturb nesting sites for birds protected by the MBTA and FGC. No action is necessary if no active nests are found, or if construction will occur during the non-breeding season (generally September 1 through February 14).

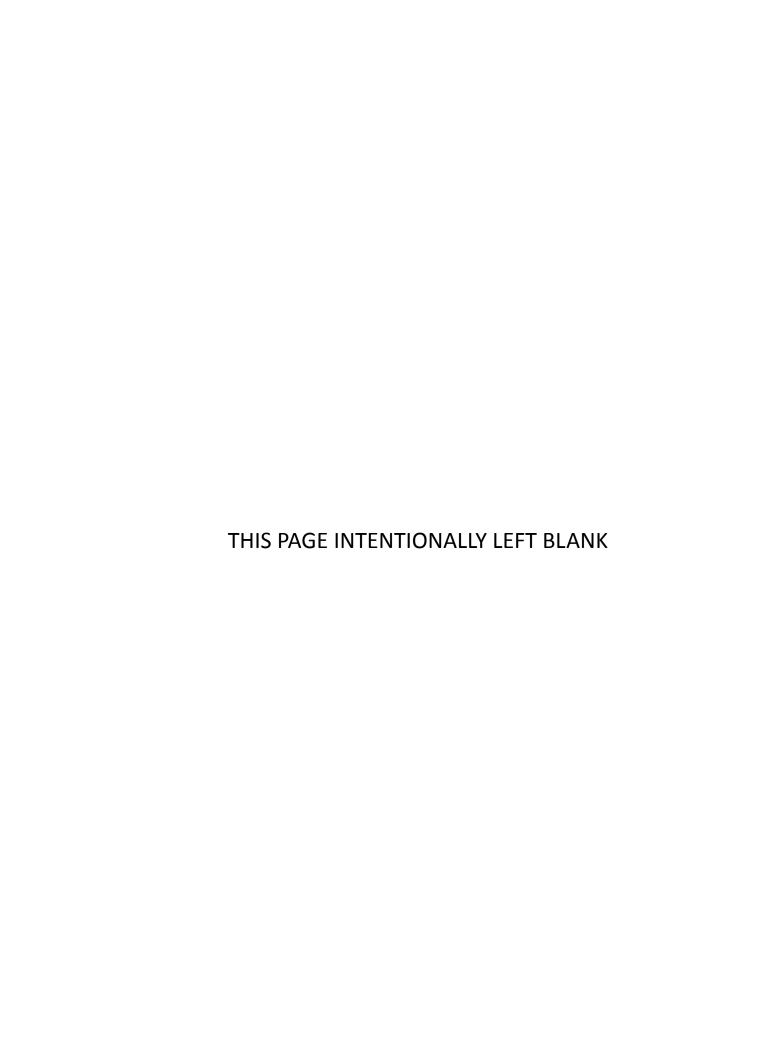
Implementation of the following avoidance and minimization measures would reduce the potential for impacts to raptors and other nesting birds.

- To prevent impacts to MBTA-protected birds and their nests, removal of trees will be limited to only those necessary to construct the proposed project.
- If any tree removal is necessary, then it will occur outside the nesting season between
   September 1 and February 14, if feasible. If trees cannot be removed outside the nesting season, pre-construction surveys will be conducted a maximum of 7 days prior to tree removal to verify the absence of active nests.
- If an active nest is located during pre-construction surveys, USFWS and/or CDFW (as
  appropriate) shall be notified regarding the status of the nest. Construction activities shall be
  restricted as necessary to avoid disturbance of the nest until it is abandoned or the agencies
  deem disturbance potential to be minimal. Restrictions may include establishment of
  exclusion zones (no ingress of personnel or equipment at a minimum radius of 100 feet
  around an active raptor nest and a 50-foot radius around an active migratory bird nest) or
  alteration of the construction schedule.
- A qualified biologist will delineate the buffer using Environmentally Sensitive Area fencing, pin flags, and/or yellow caution tape. The buffer zone will be maintained around the active nest site(s) until the young have fledged and are foraging independently.

### **SECTION 6: REFERENCES**

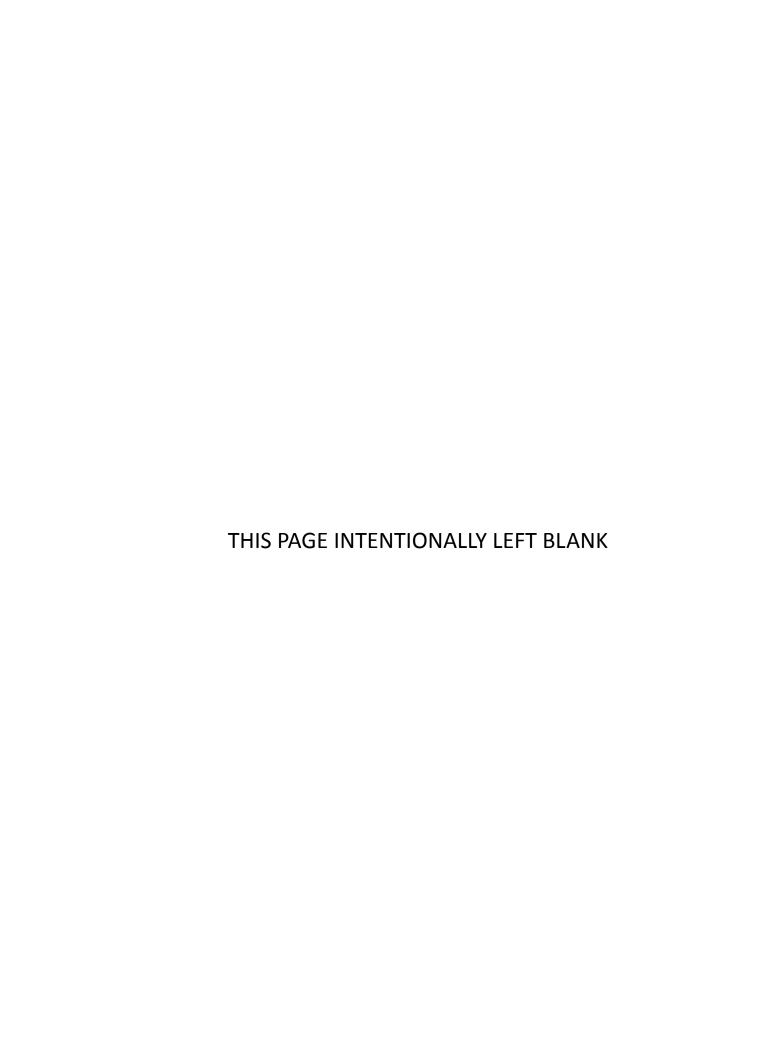
- California Department of Fish and Wildlife (CDFW). 2016. CNDDB RareFind 5 California Natural Diversity Database Query for Special-Status Species. Website: https://map.dfg.ca.gov/rarefind/view/RareFind.aspx. Accessed March 2016.
- California Native Plant Society (CNPS), Rare Plant Program. 2016. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website http://www.rareplants.cnps.org. Accessed March 9, 2016.
- United States Department of Agriculture (USDA). 2016. NRCS Web Soil Survey. Website: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed March, 9 2016.
- U.S. Geological Survey (USGS). 1986. Riverside West, California 7.5-Minute Topographic Quadrangle Map. Washington, D.C.: U.S. Government Printing Office.
- United States Fish and Wildlife Service (USFWS). 2016. Environmental Conservation Online System. Website: http://ecos.fws.gov/ecp/report/table/critical-habitat.html. Accessed March 8, 2016.

FirstCarbon Solutions 27



Appendix A: CNDDB and CNPS Inventory Results

FirstCarbon Solutions 29





#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Survey Areas

Soil Map Unit Polygons

Soil Map Unit Points

Soil Map Unit Lines

#### **Special Point Features**

( Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

A Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Spoil Area

Stony Spot

Wery Stony Spot

Sodic Spot

Wet Spot

△ Other

Special Line Features

#### **Water Features**

Streams and Canals

#### Transportation

→ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

#### Background

20

Aerial Photography

#### MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Santa Monica Mountains National Recreation

Area

Survey Area Data: Version 14, Sep 22, 2015

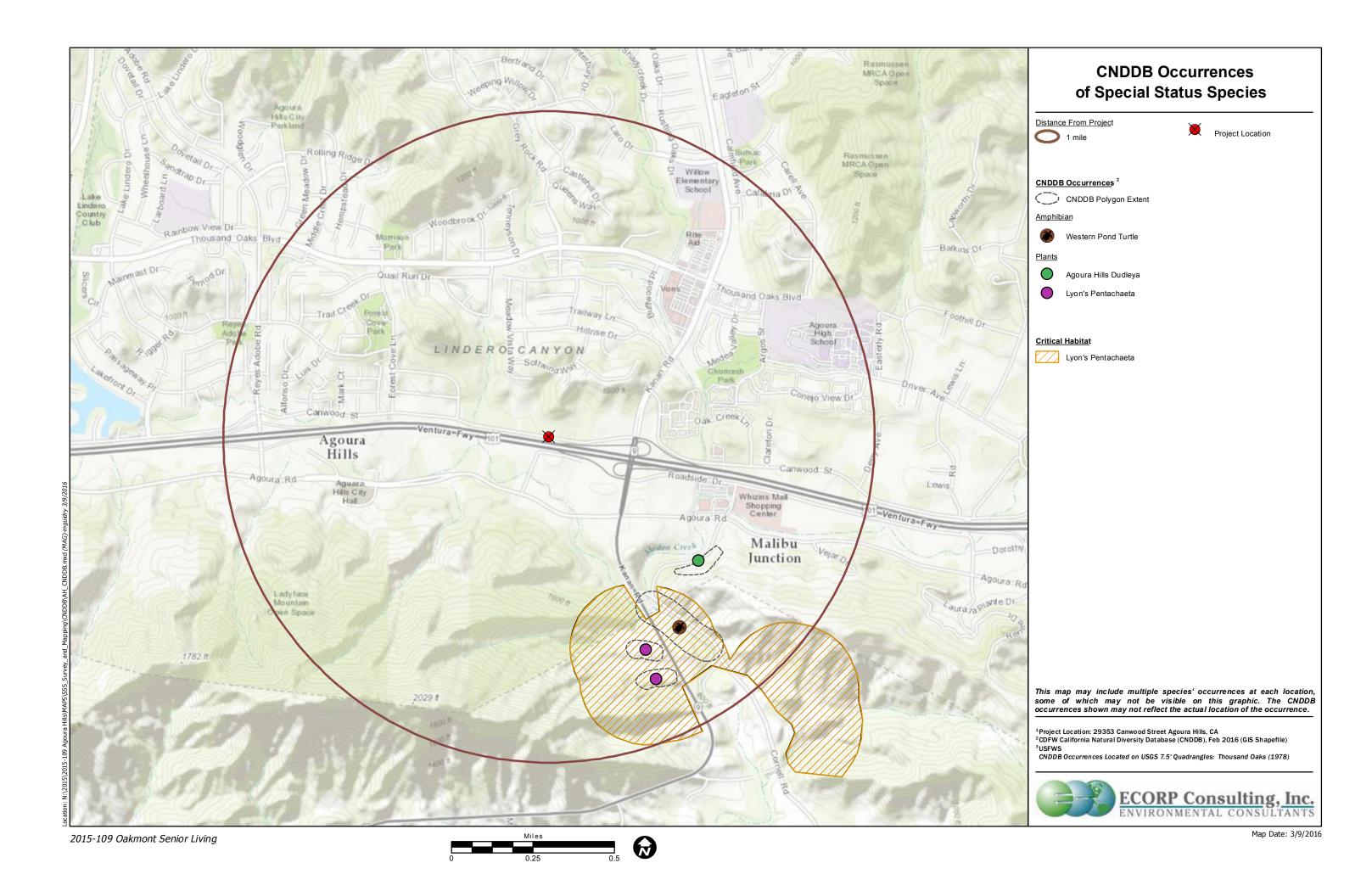
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 21, 2014—Dec 23, 2014

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

## **Map Unit Legend**

Santa Monica Mountains National Recreation Area (CA692)									
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI						
437	Urban land-Cropley, fill complex 0 to 8 percent slopes, commercial	7.2	58.1%						
452	Urban land-Sapwi, landscaped- Kawenga, landscaped complex, 0 to 20 percent slopes, residential	5.2	41.9%						
Totals for Area of Interest		12.4	100.0%						





## California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria:

Quad is (Thousand Oaks (3411827)) and Accuracy is (Circular feature with a 1600 meter radius (1 mile))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Orcuttia californica	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
California Orcutt grass						
Riparia riparia	ABPAU08010	None	Threatened	G5	S2	
bank swallow						

Record Count: 3

				Rare Plant					Elevation High	Elevation Low	
Scientific Name	Common Name	Family	Lifeform	Rank	State Rank	Global Rank	CESA	FESA	(meters)	(meters)	CA Endemic
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	1B.1	S2	G2	None	FE	640	4	Т
Atriplex coulteri	Coulter's saltbush	Chenopodiaceae	perennial herb	1B.2	S2	G3	None	None	460	3	F
Atriplex serenana var. davidsonii	Davidson's saltscale	Chenopodiaceae	annual herb	1B.2	S1	G5T1	None	None	200	10	F
Baccharis malibuensis	Malibu baccharis	Asteraceae	perennial deciduous shrub	1B.1	S1	G1	None	None	305	150	T
California macrophylla	round-leaved filaree	Geraniaceae	annual herb	1B.2	S3?	G3?	None	None	1200	15	F
Calochortus clavatus var. gracilis	slender mariposa lily	Liliaceae	perennial bulbiferous herb	1B.2	S2S3	G4T2T3	None	None	1000	320	Т
Calochortus fimbriatus	late-flowered mariposa lily	Liliaceae	perennial bulbiferous herb	1B.3	S3	G3	None	None	1905	275	Т
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	1B.1	S2	G3T2	None	None	480	0	F
Chaenactis glabriuscula var. orcuttiana	Orcutt's pincushion	Asteraceae	annual herb	1B.1	S1	G5T1T2	None	None	100	0	F
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Polygonaceae	annual herb	1B.1	S1	G2T1	CE	FC	1220	150	Т
Chorizanthe parryi var. parryi	Parry's spineflower	Polygonaceae	annual herb	1B.1	S3	G3T3	None	None	1220	275	Т
Deinandra minthornii	Santa Susana tarplant	Asteraceae	perennial deciduous shrub	1B.2	S2	G2	CR	None	760	280	Т
Delphinium parryi ssp. blochmaniae	dune larkspur	Ranunculaceae	perennial herb	1B.2	S2	G4T2	None	None	200	0	Т
Dudleya blochmaniae ssp. blochmaniae	Blochman's dudleya	Crassulaceae	perennial herb	1B.1	S2	G3T2	None	None	450	5	F
Dudleya cymosa ssp. agourensis	Agoura Hills dudleya	Crassulaceae	perennial herb	1B.2	S2	G5T1	None	FT	500	200	Т
Dudleya cymosa ssp. marcescens	marcescent dudleya	Crassulaceae	perennial herb	1B.2	S2	G5T2	CR	FT	520	150	Т
Dudleya cymosa ssp. ovatifolia	Santa Monica dudleya	Crassulaceae	perennial herb	1B.1	S1	G5T1	None	FT	1675	150	Т
Dudleya multicaulis	many-stemmed dudleya	Crassulaceae	perennial herb	1B.2	S2	G2	None	None	790	15	Т
Dudleya parva	Conejo dudleya	Crassulaceae	perennial herb	1B.2	S1	G1	None	FT	450	60	T
Dudleya verityi	Verity's dudleya	Crassulaceae	perennial herb	1B.1	S1	G1	None	FT	120	60	T
Eriogonum crocatum	conejo buckwheat	Polygonaceae	perennial herb	1B.2	S1	G1	CR	None	580	50	Т
Horkelia cuneata var. puberula	mesa horkelia	Rosaceae	perennial herb	1B.1	S1	G4T1	None	None	810	70	Т
Isocoma menziesii var. decumbens	decumbent goldenbush	Asteraceae	perennial shrub	1B.2	S2	G3G5T2T3	None	None	135	10	F
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Asteraceae	annual herb	1B.1	S2	G4T2	None	None	1220	1	F
Monardella hypoleuca ssp. hypoleuca	white-veined monardella	Lamiaceae	perennial herb	1B.3	S2S3	G4T2T3	None	None	1525	50	Т
Monardella sinuata ssp. gerryi	Gerry?s curly-leaved monardella	Lamiaceae	annual herb	1B.1	S1	G1	None	None	245	150	T
Monardella sinuata ssp. sinuata	southern curly-leaved monardella	Lamiaceae	annual herb	1B.2	S2	G3T2	None	None	300	0	T
Navarretia ojaiensis	Ojai navarretia	Polemoniaceae	annual herb	1B.1	S1	G1	None	None	620	275	T
Nolina cismontana	chaparral nolina	Ruscaceae	perennial evergreen shrub	1B.2	S3	G3	None	None	1275	140	T
Orcuttia californica	California Orcutt grass	Poaceae	annual herb	1B.1	S1	G1	CE	FE	660	15	F
Pentachaeta Iyonii	Lyon's pentachaeta	Asteraceae	annual herb	1B.1	S1	G1	CE	FE	690	30	Т
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	2B.2	S2	G3?	None	None	800	15	F
Thelypteris puberula var. sonorensis	Sonoran maiden fern	Thelypteridaceae	perennial rhizomatous herb	2B.2	S2	G5T3	None	None	610	50	F
Tortula californica	California screw-moss	Pottiaceae	moss	1B.2	S2S3	G2G3	None	None	1460	10	Т

### **Critical Habitat for Threatened & Endangered Species [USFWS]**

A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.



U.S. Fish and Wildlife Service | USDA FSA, Microsoft | Esri, HERE, DeLorme, iPC, NGA, USGS



## California Department of Fish and Wildlife California Natural Diversity Database



**Query Criteria:** 

Quad is (Calabasas (3411826) or Malibu Beach (3411816) or Moorpark (3411838) or Newbury Park (3411828) or Point Dume (3411817) or Santa Susana (3411836) or Simi (3411837) or Thousand Oaks (3411827) or Triunfo Pass (3411818))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii	ABNKC12040	None	None	G5	State Kalik	WL
Cooper's hawk	7121111012010	110110	110110	00		***
Agelaius tricolor	ABPBXB0020	None	None	G2G3	S1S2	SSC
tricolored blackbird						
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S2S3	WL
Anaxyrus californicus	AAABB01230	Endangered	None	G2G3	S2S3	SSC
arroyo toad						
Anniella pulchra pulchra	ARACC01012	None	None	G3G4T3T4Q	S3	SSC
silvery legless lizard						
Antrozous pallidus	AMACC10010	None	None	G5	S3	SSC
pallid bat						
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T3T4	S2S3	
Astragalus brauntonii	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
Braunton's milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Atriplex coulteri	PDCHE040E0	None	None	G3	S2	1B.2
Coulter's saltbush						
Atriplex serenana var. davidsonii	PDCHE041T1	None	None	G5T1	S1	1B.2
Davidson's saltscale						
Baccharis malibuensis	PDAST0W0W0	None	None	G1	S1	1B.1
Malibu baccharis						
Bombus crotchii	IIHYM24480	None	None	G3G4	S1S2	
Crotch bumble bee						
California macrophylla	PDGER01070	None	None	G3?	S3?	1B.2
round-leaved filaree						
California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
California Walnut Woodland						
Calochortus clavatus var. gracilis	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2
slender mariposa-lily						
Calochortus fimbriatus	PMLIL0D1J2	None	None	G3	S3	1B.2
late-flowered mariposa-lily						
Calochortus plummerae Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2



## California Department of Fish and Wildlife California Natural Diversity Database



Consider	Flowers Oc.	Fodoval Otati	Otata Otata	Olahai Dawi	Chata David	Rare Plant Rank/CDFW
Species Cotostomus contonnos	Element Code	Federal Status	State Status	Global Rank	State Rank S1	SSC or FP
Catostomus santaanae Santa Ana sucker	AFCJC02190	Threatened	None	G1	51	
	DD 4 CT 4 D CD 4	Nama	Nama	COTO	00	4D 4
Centromadia parryi ssp. australis southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
·	DD A CTOOOF	None	None	OFT4T2	C4	4D 4
Chaenactis glabriuscula var. orcuttiana Orcutt's pincushion	PDAST20095	None	None	G5T1T2	S1	1B.1
Chorizanthe parryi var. fernandina	PDPGN040J1	Candidate	Endangered	G2T1	S1	1B.1
San Fernando Valley spineflower	FDFGN04031	Carididate	Lildarigered	GZTT	31	10.1
Chorizanthe parryi var. parryi	PDPGN040J2	None	None	G3T3	<b>S</b> 3	1B.1
Parry's spineflower	FDFGN04032	None	None	G313	33	10.1
Cismontane Alkali Marsh	CTT52310CA	None	None	G1	S1.1	
Cismontane Alkali Marsh	011323100A	None	None	O1	31.1	
Coelus globosus	IICOL4A010	None	None	G1G2	S1S2	
globose dune beetle	1100247010	None	None	0102	0102	
Danaus plexippus pop. 1	IILEPP2012	None	None	G4T2T3	S2S3	
monarch - California overwintering population	1122112012	140110	None	041210	0200	
Deinandra minthornii	PDAST4R0J0	None	Rare	G2	S2	1B.2
Santa Susana tarplant	. 27.61			0_	<b>0</b> -	
Delphinium parryi ssp. blochmaniae	PDRAN0B1B1	None	None	G4T2	S2	1B.2
dune larkspur						
Diadophis punctatus modestus	ARADB10015	None	None	G5T2T3Q	S2?	
San Bernardino ringneck snake						
Dodecahema leptoceras	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
slender-horned spineflower						
Dudleya blochmaniae ssp. blochmaniae	PDCRA04051	None	None	G3T2	S2	1B.1
Blochman's dudleya						
Dudleya cymosa ssp. agourensis	PDCRA040A7	Threatened	None	G5T1	S2	1B.2
Agoura Hills dudleya						
Dudleya cymosa ssp. marcescens	PDCRA040A3	Threatened	Rare	G5T2	S2	1B.2
marcescent dudleya						
Dudleya cymosa ssp. ovatifolia	PDCRA040A5	Threatened	None	G5T1	S1	1B.1
Santa Monica dudleya						
Dudleya multicaulis	PDCRA040H0	None	None	G2	S2	1B.2
many-stemmed dudleya						
Dudleya parva	PDCRA04016	Threatened	None	G1	S1	1B.2
Conejo dudleya						
Dudleya verityi	PDCRA040U0	Threatened	None	G1	S1	1B.1
Verity's dudleya						
Elanus leucurus	ABNKC06010	None	None	G5	S3S4	FP
white-tailed kite						
Empidonax traillii extimus	ABPAE33043	Endangered	Endangered	G5T2	S1	
southwestern willow flycatcher						



## California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eriogonum crocatum	PDPGN081G0	None	Rare	G1	S1	1B.2
conejo buckwheat						
Eucyclogobius newberryi tidewater goby	AFCQN04010	Endangered	None	G3	S3	SSC
Euderma maculatum spotted bat	AMACC07010	None	None	G4	<b>S</b> 3	SSC
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
Falco peregrinus anatum  American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
Gasterosteus aculeatus williamsoni	AFCPA03011	Endangered	Endangered	G5T1	S1	FP
unarmored threespine stickleback  Gila orcuttii	AFCJB13120	None	None	G2	S2	SSC
arroyo chub  Harpagonella palmeri	PDBOR0H010	None	None	G4	S3	4.2
Palmer's grapplinghook						
Morkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Isocoma menziesii var. decumbens decumbent goldenbush	PDAST57091	None	None	G3G5T2T3	S2	1B.2
Lampropeltis zonata (pulchra)  California mountain kingsnake (San Diego population)	ARADB19063	None	None	G4G5	S1S2	SSC
Lasiurus blossevillii western red bat	AMACC05060	None	None	G5	S3	SSC
Lasiurus cinereus hoary bat	AMACC05030	None	None	G5	S4	
Lasthenia glabrata ssp. coulteri Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
Macrotus californicus	AMACB01010	None	None	G4	<b>S</b> 3	SSC
California leaf-nosed bat  Monardella hypoleuca ssp. hypoleuca  white-veined monardella	PDLAM180A3	None	None	G4T2T3	S2S3	1B.3
Monardella sinuata ssp. gerryi Gerry's curly-leaved monardella	PDLAM18163	None	None	G3T1	S1	1B.1
Myotis ciliolabrum western small-footed myotis	AMACC01140	None	None	G5	S3	
Myotis yumanensis Yuma myotis	AMACC01020	None	None	G5	S4	
Navarretia ojaiensis Ojai navarretia	PDPLM0C130	None	None	G1	S1	1B.1



## California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Neotoma lepida intermedia	AMAFF08041	None	None	G5T3T4	S3S4	SSC
San Diego desert woodrat	7 II 7 000 1 1			20.0		
Nolina cismontana	PMAGA080E0	None	None	G3	S3	1B.2
chaparral nolina						
Oncorhynchus mykiss irideus	AFCHA0209J	Endangered	None	G5T1Q	S1	
steelhead - southern California DPS		3				
Orcuttia californica	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
California Orcutt grass						
Pentachaeta Iyonii	PDAST6X060	Endangered	Endangered	G1	S1	1B.1
Lyon's pentachaeta						
Phrynosoma blainvillii	ARACF12100	None	None	G3G4	S3S4	SSC
coast horned lizard						
Polioptila californica californica	ABPBJ08081	Threatened	None	G3T2	S2	SSC
coastal California gnatcatcher						
Rana draytonii	AAABH01022	Threatened	None	G2G3	S2S3	SSC
California red-legged frog						
Riparia riparia	ABPAU08010	None	Threatened	G5	S2	
bank swallow						
Senecio aphanactis	PDAST8H060	None	None	G3	S2	2B.2
chaparral ragwort						
Socalchemmis gertschi	ILARAU7010	None	None	G1	S1	
Gertsch's socalchemmis spider						
Southern California Coastal Lagoon	CALE1220CA	None	None	GNR	SNR	
Southern California Coastal Lagoon						
Southern California Steelhead Stream	CARE2310CA	None	None	GNR	SNR	
Southern California Steelhead Stream						
Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Coast Live Oak Riparian Forest						
Southern Coastal Salt Marsh	CTT52120CA	None	None	G2	S2.1	
Southern Coastal Salt Marsh						
Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
Southern Mixed Riparian Forest						
Southern Riparian Forest	CTT61300CA	None	None	G4	S4	
Southern Riparian Forest						
Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Riparian Scrub						
Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Sycamore Alder Riparian Woodland				_		
Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Southern Willow Scrub						
Spea hammondii	AAABF02020	None	None	G3	S3	SSC
western spadefoot						

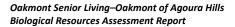


# California Department of Fish and Wildlife California Natural Diversity Database

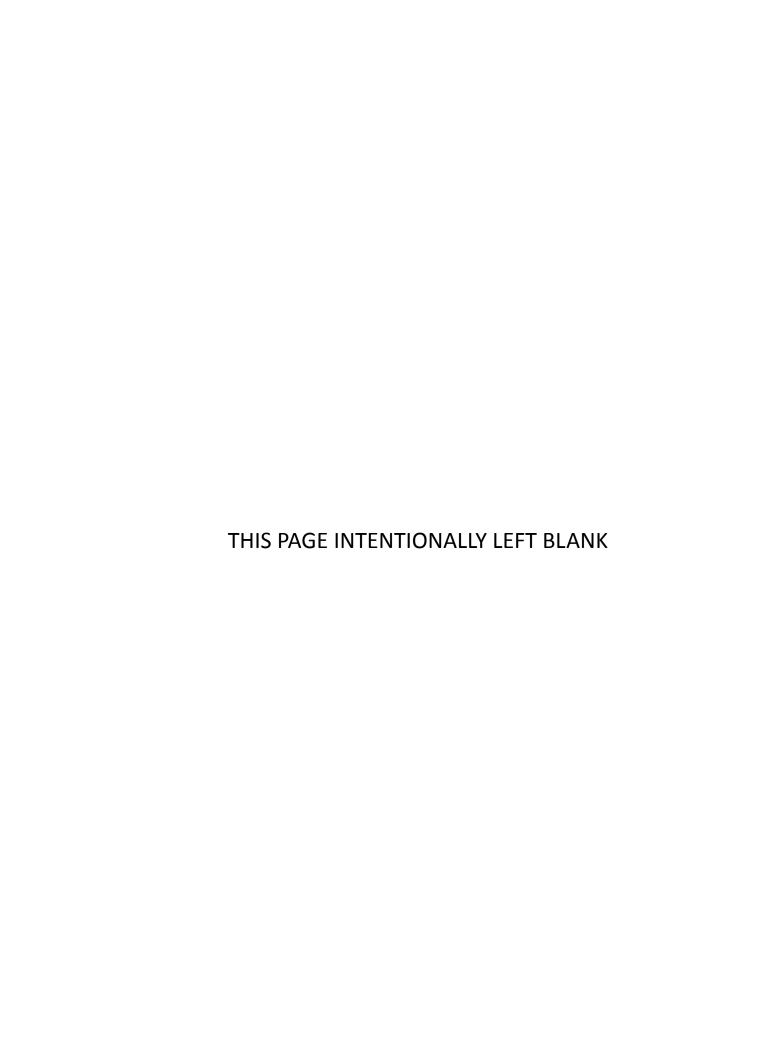


Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Streptocephalus woottoni	ICBRA07010	Endangered	None	G1G2	S1S2	
Riverside fairy shrimp						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Thamnophis hammondii	ARADB36160	None	None	G4	S3S4	SSC
two-striped garter snake						
Thelypteris puberula var. sonorensis	PPTHE05192	None	None	G5T3	S2	2B.2
Sonoran maiden fern						
Tortula californica	NBMUS7L090	None	None	G2G3	S2S3	1B.2
California screw moss						
Trimerotropis occidentiloides	IIORT36300	None	None	G1G2	S1S2	
Santa Monica grasshopper						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						
Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	
Valley Oak Woodland						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						

**Record Count: 91** 



Appendix B: Site Photographs





Photograph 1: Structure



Photograph 3: Rock area potential pallid bat habitat



Photograph 2: Drainage



Photograph 4: Overview 1

